

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P198770

Luminaire Tested: **XNV-AF-01-LED-U-T3-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198770
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (p24135)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: XNV-AF-01-LED-U-T3-600
Description: XNV ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 4000K, 615mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4077.5 lumens
Efficiency: N/A
Efficacy: 119.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G1

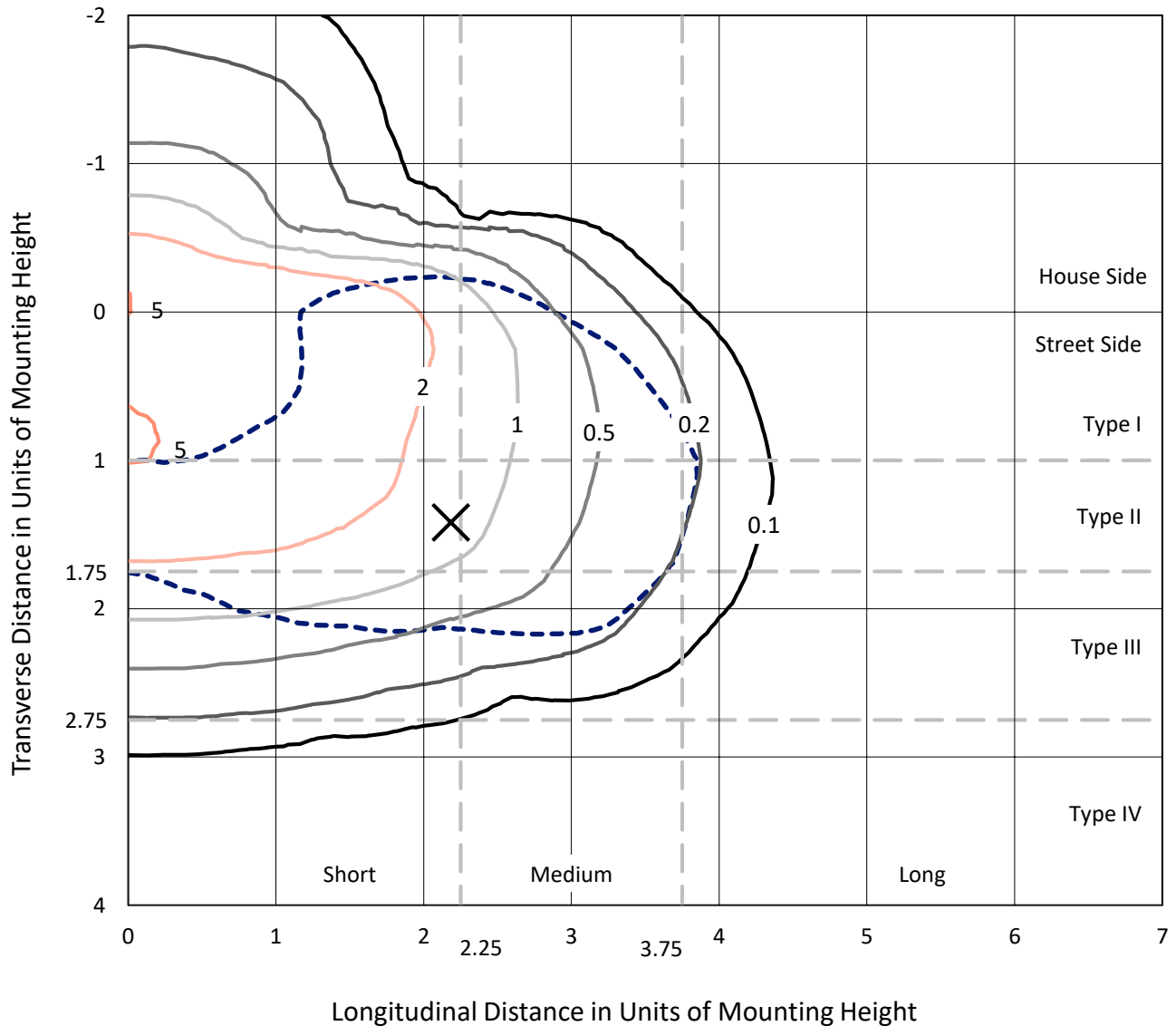
Input Watts (W): 34
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

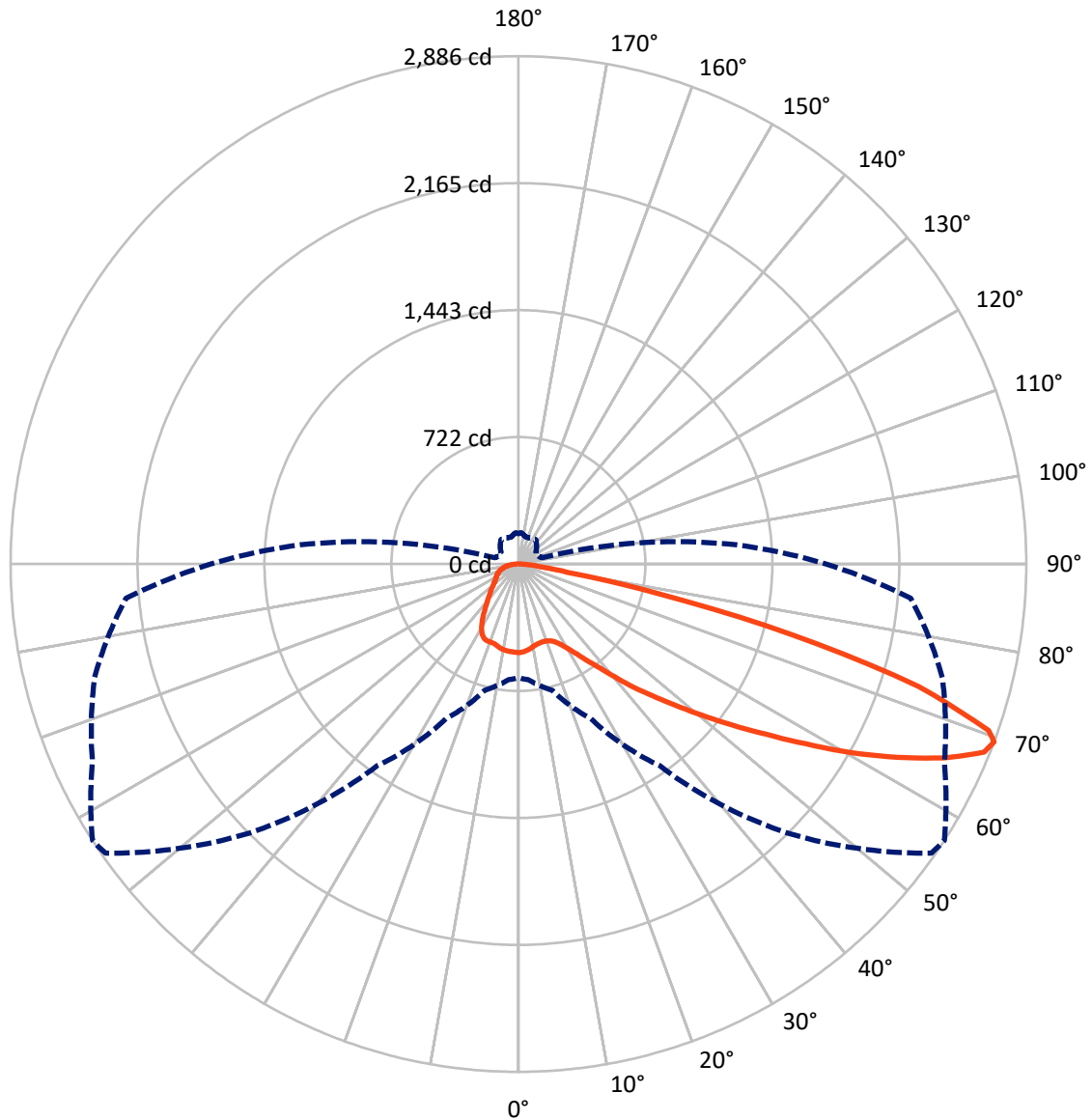
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.2 fc
 Type III - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	899.8	0.0	899.8
	% Fixture	22.1	0.0	22.1
Street Side	Lumens	3177.7	0.0	3177.7
	% Fixture	77.9	0.0	77.9
Total	Lumens	4077.5	0.0	4077.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.2	1.2
10°-20°	134.1	3.3
20°-30°	223.1	5.5
30°-40°	364.3	8.9
40°-50°	614.8	15.1
50°-60°	956.4	23.5
60°-70°	1139.3	27.9
70°-80°	530.8	13.0
80°-90°	67.5	1.7
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	4077.5	100.0
0°-180°	4077.5	100.0



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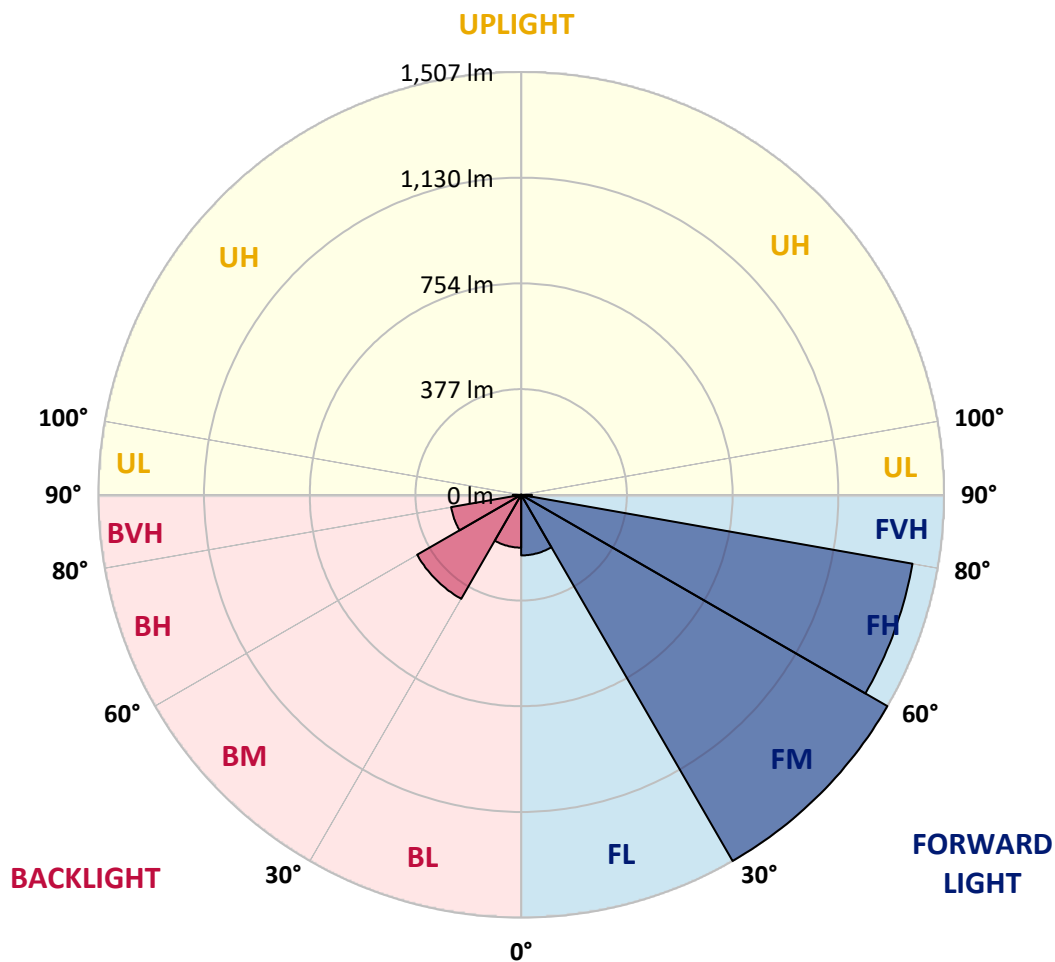
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	215.9	5.3			
FM	(30°-60°)	1507.3	37.0			
FH	(60°-80°)	1416.5	34.7			G1/1800
FVH	(80°-90°)	37.9	0.9			G1/100
BL	(0°-30°)	188.4	4.6	B1/500		
BM	(30°-60°)	428.2	10.5	B1/1000		
BH	(60°-80°)	253.5	6.2	B1/500		G1/500
BVH	(80°-90°)	29.6	0.7			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	503.8	503.8	503.8	503.8	503.8	503.8	503.8	503.8	503.8	503.8	503.8
2.5°	500.9	500.9	502.3	502.3	502.3	501.8	500.1	500.6	499.6	498.9	497.6
5°	490.7	491.3	492.9	493.4	494.2	494.4	494.4	494.2	494.4	494.4	493.7
7.5°	476.7	477.2	479.0	480.1	482.4	484.5	485.5	485.5	486.8	487.8	488.2
10°	468.0	468.0	469.1	469.1	471.0	472.0	475.4	475.1	478.7	482.1	483.8
12.5°	467.0	467.0	466.5	464.6	463.6	463.4	466.8	467.3	472.7	478.7	481.6
15°	470.4	470.4	468.8	465.1	461.2	459.4	462.8	463.9	469.8	476.9	481.4
17.5°	481.4	481.1	477.7	470.4	463.6	460.7	461.8	462.8	468.3	476.4	481.9
20°	505.6	505.6	498.4	485.0	473.3	466.5	464.9	465.7	469.6	477.2	484.3
22.5°	548.2	549.0	535.9	514.0	493.9	479.6	473.3	474.0	475.9	483.1	491.0
25°	610.8	608.8	590.2	559.1	527.8	503.3	490.5	491.3	491.3	498.1	506.2
27.5°	677.2	677.7	651.0	617.7	576.4	539.8	519.5	519.2	518.9	525.5	534.1
30°	752.1	752.3	721.5	682.9	635.7	588.9	558.3	558.1	555.8	563.9	575.1
32.5°	834.0	833.8	798.0	754.4	701.9	649.0	609.3	609.0	607.2	618.2	631.8
35°	924.8	924.8	889.4	835.6	779.0	720.0	674.0	673.7	674.8	689.7	702.5
37.5°	1034.2	1036.6	993.8	928.5	866.6	803.7	750.2	748.7	740.8	765.9	787.1
40°	1148.4	1154.8	1110.5	1034.2	967.4	902.4	843.4	842.4	835.6	862.2	896.4
42.5°	1271.8	1286.7	1237.4	1159.5	1086.7	1016.5	957.3	954.4	928.2	969.8	1023.3
45°	1433.7	1443.3	1371.8	1301.3	1232.7	1152.5	1082.0	1066.6	1040.5	1093.7	1163.2
47.5°	1543.8	1539.1	1494.4	1447.3	1403.1	1326.4	1218.0	1198.5	1166.6	1237.1	1313.6
50°	1612.2	1615.5	1590.5	1588.2	1585.9	1532.3	1371.5	1348.0	1311.2	1394.8	1484.0
52.5°	1657.4	1641.9	1646.4	1699.6	1764.1	1738.5	1545.1	1519.0	1481.1	1564.7	1665.5
55°	1638.6	1618.2	1659.2	1764.1	1915.8	1921.5	1735.6	1708.7	1676.4	1745.4	1883.7
57.5°	1560.8	1570.9	1635.7	1781.6	2019.4	2085.5	1954.7	1927.2	1863.6	1933.6	2090.9
60°	1451.4	1472.0	1570.9	1754.0	2092.0	2213.2	2195.2	2176.8	2067.2	2116.8	2308.7
62.5°	1333.9	1354.3	1475.9	1706.7	2059.4	2326.2	2431.0	2419.9	2291.9	2293.3	2446.8
65°	1160.3	1168.7	1292.9	1577.7	1968.8	2428.2	2667.3	2657.4	2506.8	2443.9	2485.4
67.5°	876.4	886.8	988.8	1245.4	1693.1	2372.8	2856.1	2854.5	2636.0	2499.8	2393.5
69°	647.1	659.9	743.2	966.9	1400.0	2162.0	2865.0	2886.1	2671.0	2494.0	2238.2
70°	473.5	488.2	565.2	767.4	1166.1	1929.1	2789.0	2834.4	2657.6	2457.7	2117.1
72.5°	201.2	206.2	244.1	346.4	591.6	1163.2	2284.4	2379.9	2400.3	2202.1	1654.0
75°	126.1	127.7	142.5	177.8	263.1	481.1	1479.3	1609.6	1792.1	1708.5	1107.3
77.5°	95.0	96.4	105.0	122.4	163.4	179.6	686.3	818.4	1026.4	1005.0	551.1
80°	72.8	73.7	79.4	89.0	115.1	112.5	222.7	279.9	428.4	378.0	195.0
82.5°	57.2	57.4	62.4	64.2	80.4	75.7	111.7	124.5	173.1	143.8	95.2
85°	50.6	51.5	56.4	47.0	51.5	45.7	61.4	66.6	91.9	86.6	36.0
87.5°	25.9	27.1	47.3	40.2	25.9	21.7	26.9	28.9	37.3	40.5	17.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	503.8	503.8	503.8	503.8	503.8	503.8	503.8	503.8	503.8	503.8	503.8
2.5°	497.8	498.1	498.9	500.1	502.3	504.8	508.0	511.2	512.9	514.2	513.7
5°	493.7	493.9	495.4	497.8	500.4	504.3	509.5	513.5	516.4	518.1	517.9
7.5°	488.5	489.2	492.3	494.9	498.6	501.8	506.0	509.5	512.4	514.2	514.0
10°	484.5	485.3	489.2	492.6	495.7	496.2	495.4	494.4	494.2	495.4	494.9
12.5°	482.6	484.3	487.8	490.2	489.0	484.0	478.2	475.9	475.1	477.7	477.9
15°	483.1	484.5	487.6	486.1	479.0	470.7	467.5	469.3	471.0	472.5	472.7
17.5°	484.5	485.3	486.1	480.3	470.4	464.9	463.9	462.1	457.4	454.7	454.5
20°	486.8	487.8	486.6	477.4	468.6	461.2	448.8	437.5	426.8	421.0	418.7
22.5°	494.9	495.7	491.8	482.9	469.3	445.6	420.2	401.0	384.5	375.6	372.3
25°	510.9	512.2	506.7	495.4	459.9	418.5	382.7	356.6	335.9	325.3	322.4
27.5°	538.8	540.1	534.1	504.8	438.0	382.2	338.8	313.0	295.2	286.1	284.8
30°	580.5	582.4	576.9	504.6	404.6	335.9	296.0	280.9	270.7	264.4	264.1
32.5°	638.5	645.3	622.9	495.7	363.4	289.2	263.6	258.4	253.5	249.3	249.3
35°	712.1	728.0	668.3	477.2	317.9	257.4	245.6	240.7	234.5	230.0	229.4
37.5°	800.0	824.9	700.6	444.3	278.8	242.0	234.7	226.6	216.7	208.1	205.9
40°	921.0	926.7	716.6	390.8	249.6	233.6	224.5	214.3	201.8	192.1	191.1
42.5°	1042.4	1023.6	713.4	333.4	232.8	226.1	214.1	202.9	191.6	183.5	183.5
45°	1180.5	1108.2	689.7	275.7	217.7	217.5	204.4	193.6	185.1	179.1	177.8
47.5°	1312.5	1184.1	648.7	233.1	202.0	208.8	198.1	189.6	181.7	175.9	174.9
50°	1472.8	1272.0	605.1	203.4	186.9	201.2	195.5	191.1	183.5	173.6	172.6
52.5°	1632.0	1374.9	571.4	180.9	173.6	195.3	197.1	197.6	190.6	171.2	169.9
55°	1803.1	1484.8	535.9	163.4	162.6	192.4	200.7	200.2	196.8	171.8	169.7
57.5°	1965.7	1595.2	482.9	151.2	154.1	189.6	201.5	193.1	187.2	174.4	170.9
60°	2100.3	1686.6	405.1	142.5	146.7	183.8	196.3	183.8	173.6	173.9	170.7
62.5°	2165.9	1712.2	309.9	132.6	140.7	174.4	188.7	176.8	167.4	174.9	173.1
65°	2116.0	1639.4	220.9	123.5	133.4	163.4	184.3	170.7	164.2	180.1	178.0
67.5°	1937.0	1440.9	160.3	115.4	126.3	152.2	175.9	165.2	161.0	184.0	179.3
69°	1746.7	1244.1	138.9	110.7	121.4	146.2	170.4	162.3	158.8	178.5	171.8
70°	1588.4	1092.5	128.2	107.8	117.2	142.8	166.3	160.5	156.4	172.1	164.0
72.5°	1139.0	706.1	107.8	99.2	106.3	135.2	157.1	153.7	147.5	155.3	150.1
75°	688.1	368.6	91.7	90.3	94.7	124.8	146.5	142.3	136.1	136.8	134.2
77.5°	316.1	170.2	76.7	79.9	82.8	111.7	133.4	128.7	123.0	120.9	121.1
80°	138.6	99.4	64.2	68.1	69.7	100.5	119.3	114.1	107.8	119.1	110.4
82.5°	74.9	57.7	50.1	52.7	57.2	87.5	103.6	96.9	90.8	105.8	85.3
85°	30.3	29.5	34.0	36.5	39.7	62.9	86.6	79.6	72.3	64.8	63.2
87.5°	13.1	14.1	16.7	17.8	21.2	39.2	58.2	50.9	51.1	43.9	43.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)