

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: P198626

Luminaire Tested: **XNV-AF-01-LED-U-T4FT-7030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198626
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24256)
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-T4FT-7030-600
Description: XNV ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 615mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3555 lumens
Efficiency: N/A
Efficacy: 104.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short - Non-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

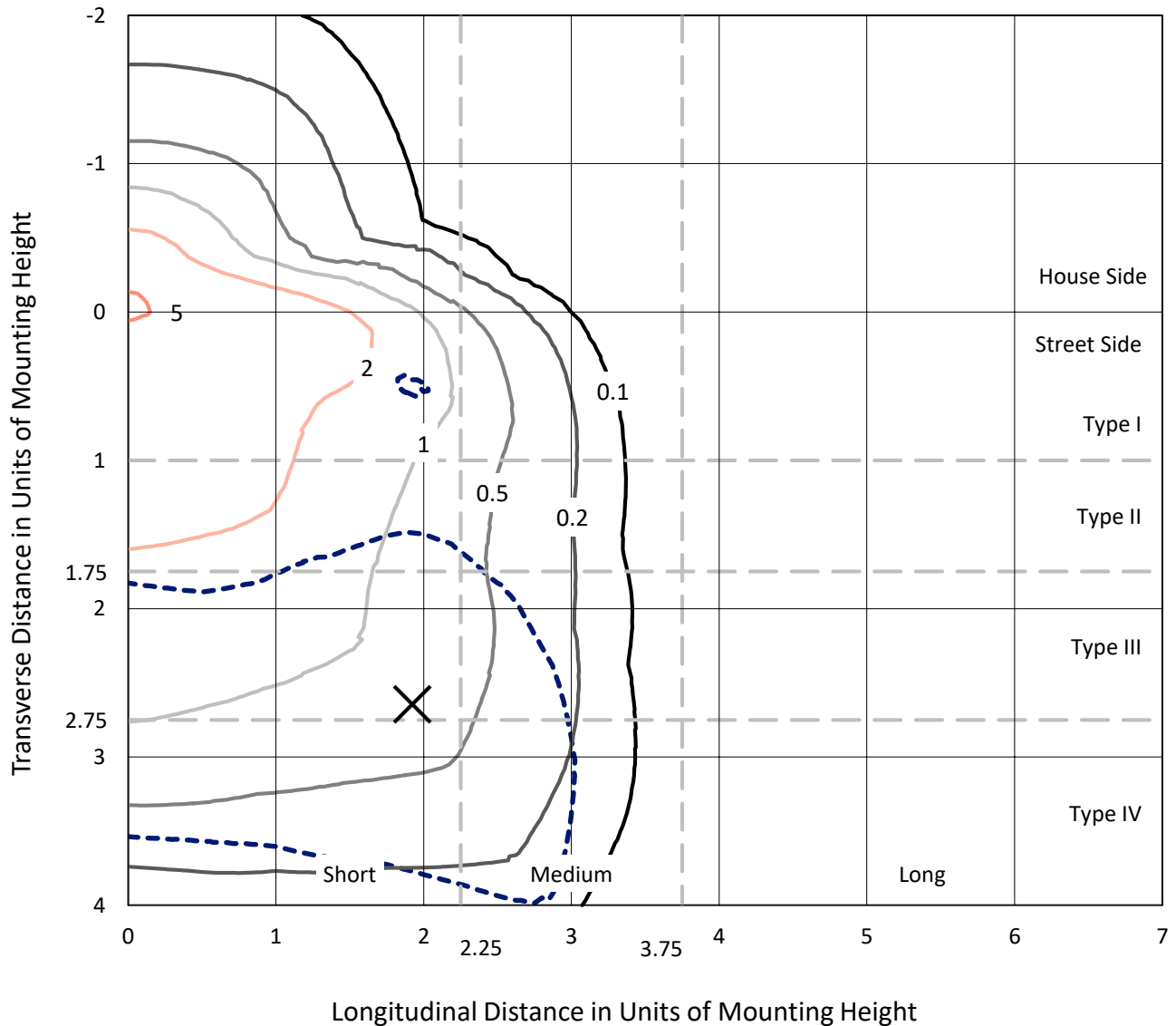


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

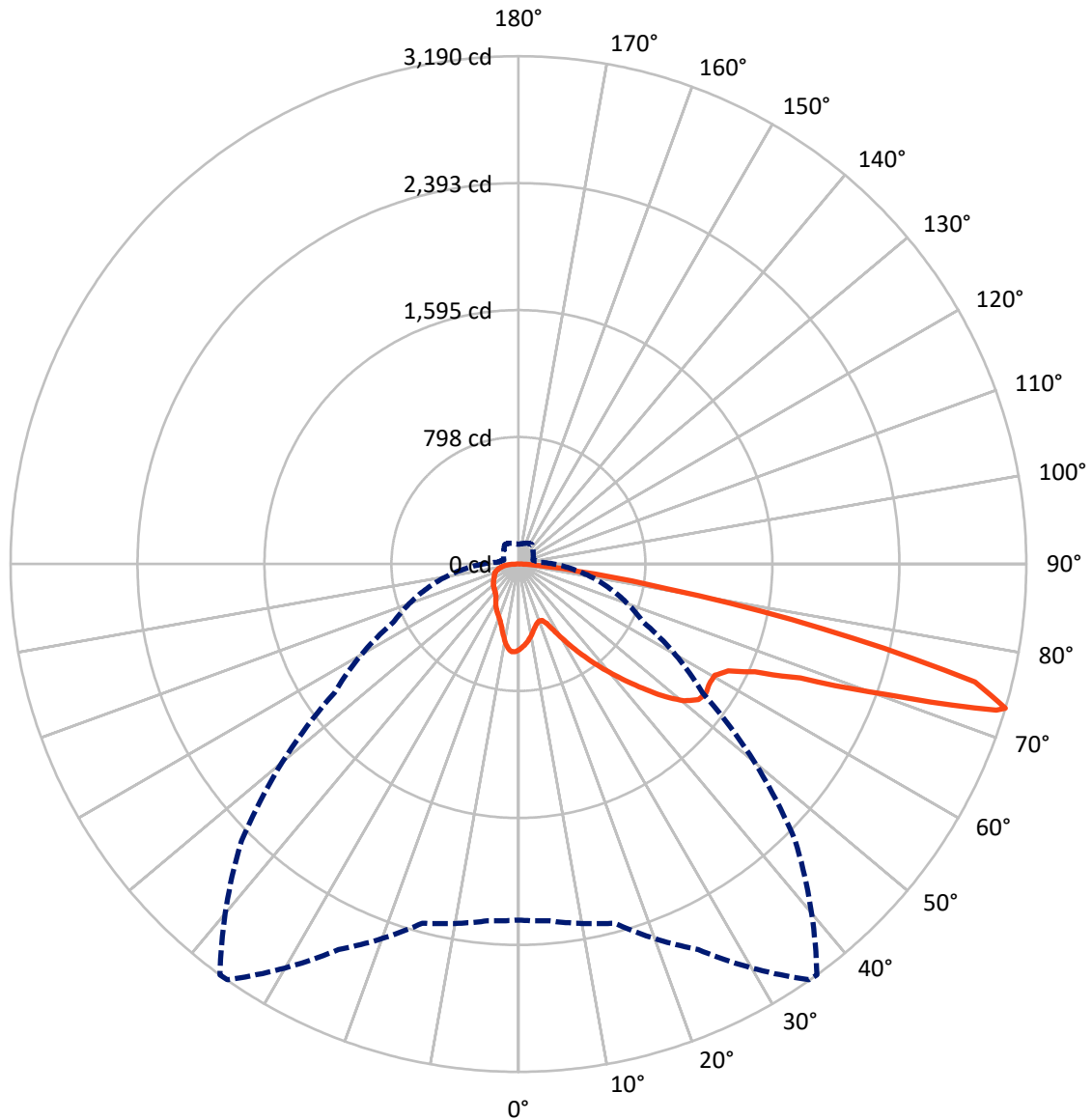


Based on 10 foot mounting height. Maximum calculated value = 5.4 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 36-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	685.5	0.0	685.5
	% Fixture	19.3	0.0	19.3
Street Side	Lumens	2869.5	0.0	2869.5
	% Fixture	80.7	0.0	80.7
Total	Lumens	3555.0	0.0	3555.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.9	1.4
10°-20°	122.8	3.5
20°-30°	196.9	5.5
30°-40°	325.8	9.2
40°-50°	504.1	14.2
50°-60°	674.8	19.0
60°-70°	881.5	24.8
70°-80°	720.0	20.3
80°-90°	80.1	2.3
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°	3555.0	100.0
0°-180°	3555.0	100.0



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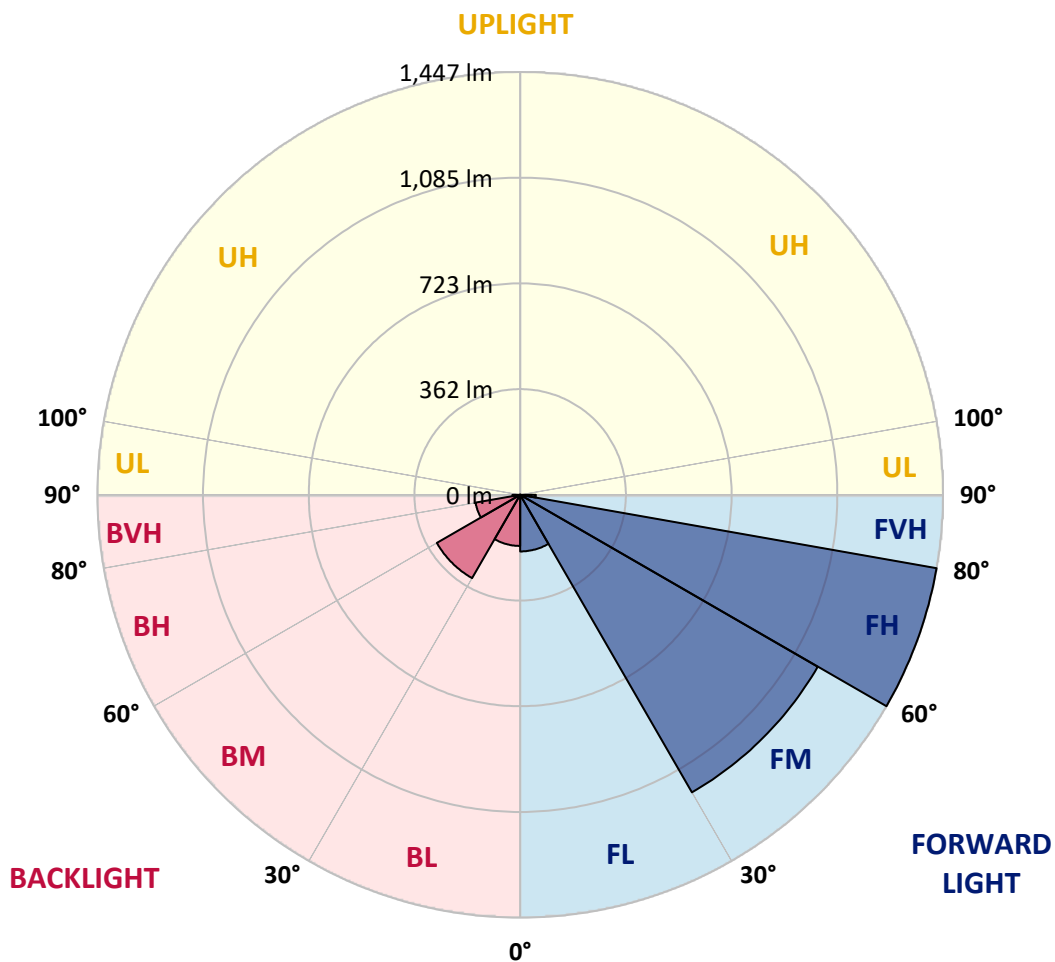
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	193.7	5.4			
FM (30°-60°)	1175.4	33.1			
FH (60°-80°)	1446.6	40.7			G1/1800
FVH (80°-90°)	53.7	1.5			G1/100
BL (0°-30°)	175.0	4.9	B1/500		
BM (30°-60°)	329.2	9.3	B1/1000		
BH (60°-80°)	154.9	4.4	B1/500		G1/500
BVH (80°-90°)	26.4	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	538.5	538.5	538.5	538.5	538.5	538.5	538.5	538.5	538.5	538.5	538.5
2.5°	517.9	519.3	519.5	521.1	521.1	520.9	521.5	524.2	525.6	528.8	531.5
5°	492.4	494.0	494.7	497.4	500.8	501.0	503.5	508.7	513.6	520.6	526.5
7.5°	463.7	465.5	467.3	473.0	477.9	478.4	483.1	491.5	498.0	506.6	517.2
10°	435.9	436.4	438.2	445.4	452.0	452.6	459.4	468.9	477.7	489.7	501.7
12.5°	413.1	414.5	414.0	419.4	425.1	425.5	434.6	446.5	459.4	473.0	487.2
15°	405.2	405.0	400.2	400.0	402.5	403.0	411.8	425.8	440.2	456.9	475.2
17.5°	410.6	408.8	396.4	388.7	387.1	387.6	394.1	409.5	424.9	444.1	466.0
20°	440.5	433.4	404.3	385.8	380.6	380.6	384.4	396.9	413.8	436.2	463.7
22.5°	511.1	500.3	438.2	405.2	386.9	385.1	382.2	391.7	410.4	437.3	473.0
25°	600.1	594.9	500.3	456.9	419.2	413.3	393.9	397.3	417.4	449.5	498.3
27.5°	682.6	673.6	581.8	532.2	478.8	469.8	428.7	414.9	434.1	472.1	534.9
30°	730.7	724.6	665.6	618.2	554.7	543.2	484.3	449.7	463.9	509.3	586.8
32.5°	783.1	779.5	749.7	706.5	637.0	623.6	556.1	506.4	509.6	558.8	649.4
35°	833.9	838.7	821.7	790.1	725.5	713.1	652.5	580.5	565.8	614.4	716.2
37.5°	894.9	896.0	885.4	864.9	818.6	808.4	758.5	659.5	627.0	673.6	780.8
40°	1016.7	998.8	957.2	941.0	913.4	907.1	850.2	732.1	683.9	734.3	841.8
42.5°	1148.3	1120.6	1055.5	1028.8	1017.8	1011.9	926.5	780.4	737.2	795.1	901.7
45°	1254.5	1231.9	1168.2	1135.2	1136.6	1127.1	993.2	823.5	795.1	856.1	968.5
47.5°	1359.1	1321.4	1250.0	1245.2	1261.0	1247.0	1056.9	866.7	855.4	922.5	1035.4
50°	1365.8	1331.5	1302.6	1340.6	1367.7	1350.3	1114.7	923.1	917.9	1002.9	1121.7
52.5°	1283.4	1278.4	1322.5	1386.4	1431.4	1415.8	1161.9	981.2	981.9	1103.4	1226.7
55°	1253.4	1247.0	1299.9	1378.5	1439.3	1430.0	1197.1	1046.7	1052.8	1225.4	1339.4
57.5°	1304.0	1288.1	1298.5	1363.6	1420.7	1415.3	1233.7	1119.4	1130.5	1365.8	1443.5
60°	1460.9	1428.6	1373.5	1385.7	1421.4	1418.3	1286.1	1200.5	1219.0	1512.2	1509.5
62.5°	1696.1	1659.5	1547.2	1493.0	1485.1	1479.0	1372.6	1300.1	1309.4	1617.9	1471.1
65°	1954.0	1914.7	1781.2	1692.5	1645.9	1632.8	1512.2	1420.3	1362.2	1617.7	1321.6
67.5°	2243.6	2202.0	2069.0	1984.3	1933.9	1911.6	1738.8	1517.4	1345.1	1480.8	1057.5
70°	2540.2	2500.6	2439.6	2469.2	2491.4	2457.3	2095.6	1549.7	1221.7	1161.0	710.1
72.5°	2382.7	2379.6	2425.9	2706.4	3133.1	3139.8	2452.1	1458.5	943.9	690.0	378.6
73°	2236.6	2249.9	2335.7	2671.4	3188.0	3190.2	2459.1	1411.2	866.7	594.5	332.5
75°	1158.7	1249.1	1567.6	2166.1	2951.9	2962.5	2167.7	1068.4	516.6	330.2	224.1
77.5°	310.3	306.3	505.1	1055.3	1968.0	1954.0	1369.7	517.2	247.6	207.1	157.2
80°	106.4	107.7	171.9	386.0	918.6	951.4	594.5	225.6	162.9	144.3	111.4
82.5°	54.2	56.0	89.9	164.2	384.2	376.1	191.3	132.8	109.1	87.6	62.3
85°	28.9	29.8	49.5	85.2	140.9	142.5	67.3	70.9	69.3	49.7	30.7
87.5°	14.2	14.7	23.7	37.5	52.2	50.4	23.5	30.7	34.1	28.0	16.9
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°	538.5	538.5	538.5	538.5	538.5	538.5	538.5	538.5	538.5	538.5	538.5
2.5°	534.9	534.9	537.8	542.8	546.4	549.8	552.0	555.6	557.7	557.5	557.2
5°	531.3	533.5	539.4	545.5	549.5	552.3	552.3	553.8	553.8	553.2	552.3
7.5°	522.9	526.7	535.3	540.7	541.9	538.9	533.1	528.5	522.9	520.0	518.8
10°	509.6	514.5	525.4	527.9	522.0	511.6	497.4	485.2	474.3	469.4	467.8
12.5°	496.5	503.0	513.2	509.3	495.3	475.0	453.1	436.4	424.2	419.4	417.9
15°	485.6	493.5	501.4	489.5	465.1	436.8	412.7	397.1	387.8	384.2	383.3
17.5°	478.4	487.7	490.4	468.0	434.1	402.5	381.0	370.9	366.8	365.2	364.8
20°	478.8	489.2	482.7	447.2	404.3	372.5	358.2	355.3	355.3	355.3	355.1
22.5°	491.3	500.3	479.5	427.8	375.6	347.2	341.1	343.6	345.4	345.4	345.1
25°	517.0	522.0	481.8	409.1	348.7	325.3	325.5	330.2	331.8	331.8	331.4
27.5°	556.3	552.3	485.9	388.3	322.3	305.4	308.5	312.8	314.0	313.3	313.1
30°	605.6	589.3	489.2	363.9	297.5	286.9	289.6	292.1	291.1	289.6	289.3
32.5°	660.7	627.0	487.2	336.5	275.6	267.7	269.2	270.6	269.2	265.4	265.4
35°	715.3	661.1	476.1	306.7	258.2	249.1	248.9	253.2	253.0	248.5	248.7
37.5°	763.2	688.0	454.7	279.4	243.3	235.6	236.5	239.2	240.6	234.5	233.8
40°	805.0	706.5	424.4	256.1	231.3	231.7	229.3	225.0	223.4	220.7	220.2
42.5°	844.3	719.4	392.3	236.7	225.2	230.4	222.0	211.9	207.6	210.1	211.6
45°	882.9	733.9	361.4	220.7	217.5	226.3	214.8	203.5	198.5	199.7	201.3
47.5°	930.1	754.0	324.1	203.5	205.8	218.9	210.3	198.1	190.6	186.1	184.8
50°	992.3	783.1	275.8	185.0	193.3	210.7	206.4	190.2	182.1	173.0	170.8
52.5°	1070.0	810.7	227.0	170.1	183.2	203.7	200.1	183.4	173.5	162.6	160.8
55°	1147.4	814.5	185.0	157.2	171.7	194.3	192.4	178.0	164.0	155.2	153.4
57.5°	1201.6	778.1	156.8	146.4	160.6	182.5	185.4	171.4	156.1	149.3	148.2
60°	1202.5	691.2	139.6	139.1	152.2	172.3	178.2	163.8	151.1	146.6	145.7
62.5°	1107.0	557.0	128.5	133.7	146.1	164.0	172.8	159.5	150.0	148.2	147.3
65°	927.9	411.5	119.7	128.7	140.5	157.0	168.3	158.1	149.5	148.8	148.2
67.5°	685.1	282.1	112.3	122.4	134.2	149.8	164.0	156.1	146.8	149.5	148.6
70°	431.0	188.4	105.3	115.2	125.8	141.4	158.3	152.5	143.4	141.8	138.9
72.5°	243.3	136.2	96.9	105.9	115.0	130.3	150.7	146.4	135.7	129.4	126.5
73°	219.8	129.0	94.9	103.7	112.5	128.1	148.8	144.6	133.5	126.5	123.8
75°	160.8	105.5	85.6	94.4	102.1	117.7	140.3	135.5	123.6	115.2	113.4
77.5°	116.6	81.3	73.6	81.5	88.3	103.2	127.4	122.0	110.2	105.7	103.9
80°	84.0	61.7	61.0	68.7	74.5	89.7	113.6	108.0	96.7	110.0	107.1
82.5°	50.1	39.5	44.7	53.3	59.4	75.2	98.7	92.2	81.3	82.2	70.0
85°	23.9	22.4	27.8	35.0	39.3	51.5	82.2	77.0	65.1	53.3	52.2
87.5°	10.6	10.2	13.3	15.6	21.0	30.9	56.2	49.9	47.2	28.2	22.1
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)