

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: P199266

Luminaire Tested: **XNV-AF-01-LED-U-T4FT-8030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P199266
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-8030-600
Description: XNV ROADWAY AND AREA LUMINAIRE
(1) 80 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: 3277 lumens
Efficiency: N/A
Efficacy: 96.4 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

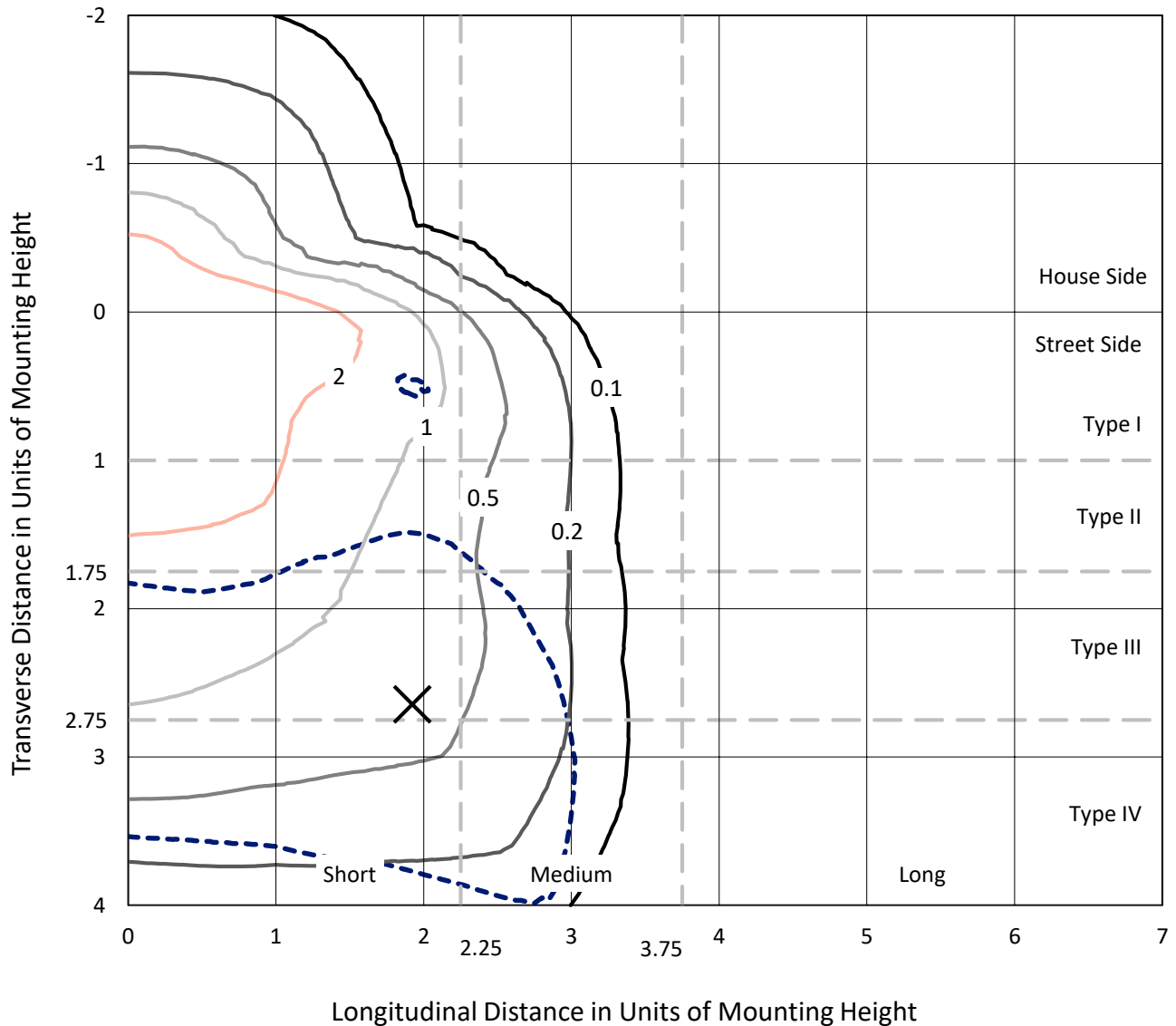


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

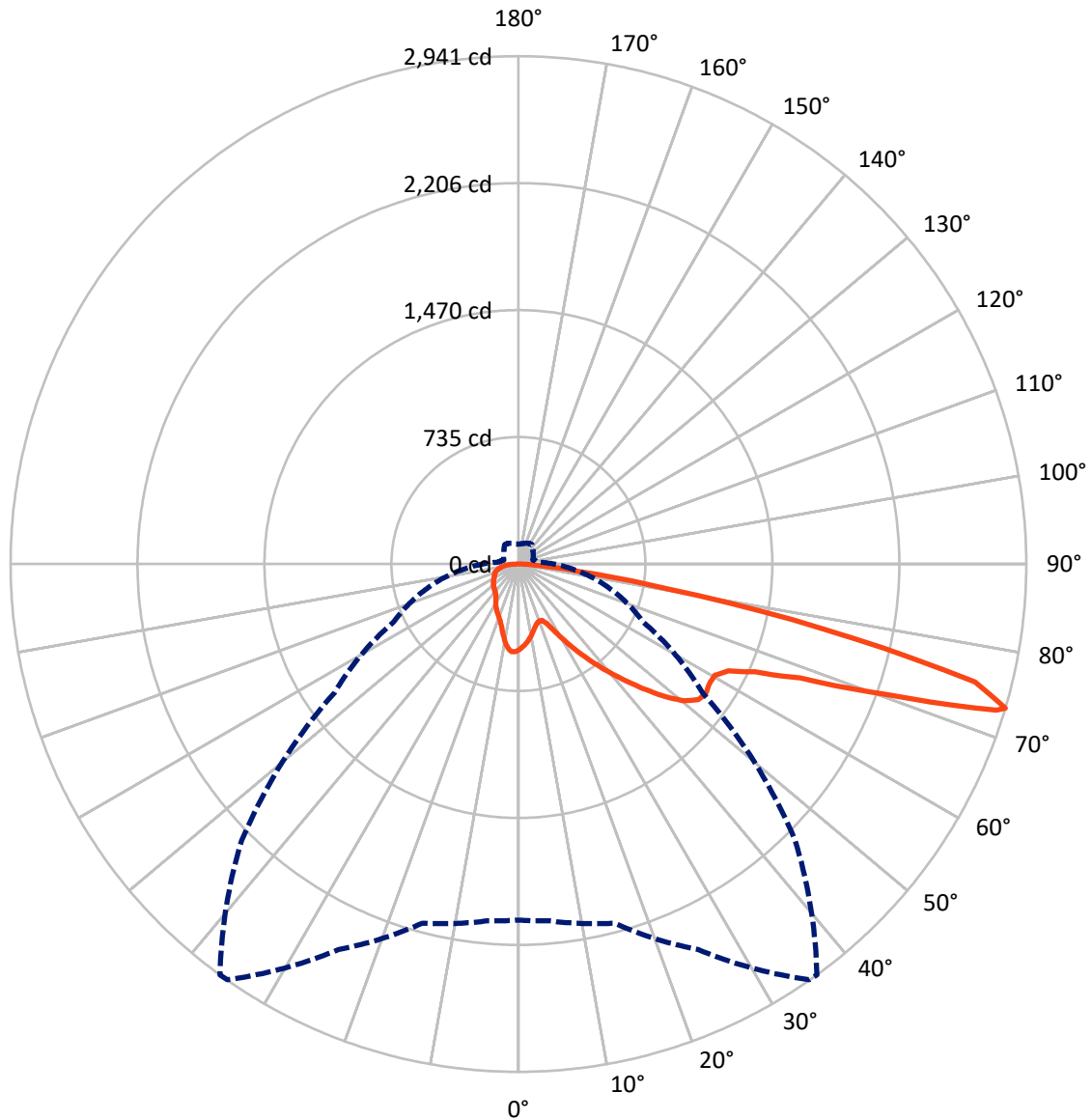


Based on 10 foot mounting height. Maximum calculated value = 5 fc
 Type IV - Short - Non-Cutoff

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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	631.9	0.0	631.9
	% Fixture	19.3	0.0	19.3
Street Side	Lumens	2645.1	0.0	2645.1
	% Fixture	80.7	0.0	80.7
Total	Lumens	3277.0	0.0	3277.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.1	1.4
10°-20°	113.2	3.5
20°-30°	181.5	5.5
30°-40°	300.3	9.2
40°-50°	464.7	14.2
50°-60°	622.0	19.0
60°-70°	812.6	24.8
70°-80°	663.7	20.3
80°-90°	73.9	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°	3277.0	100.0
0°-180°	3277.0	100.0



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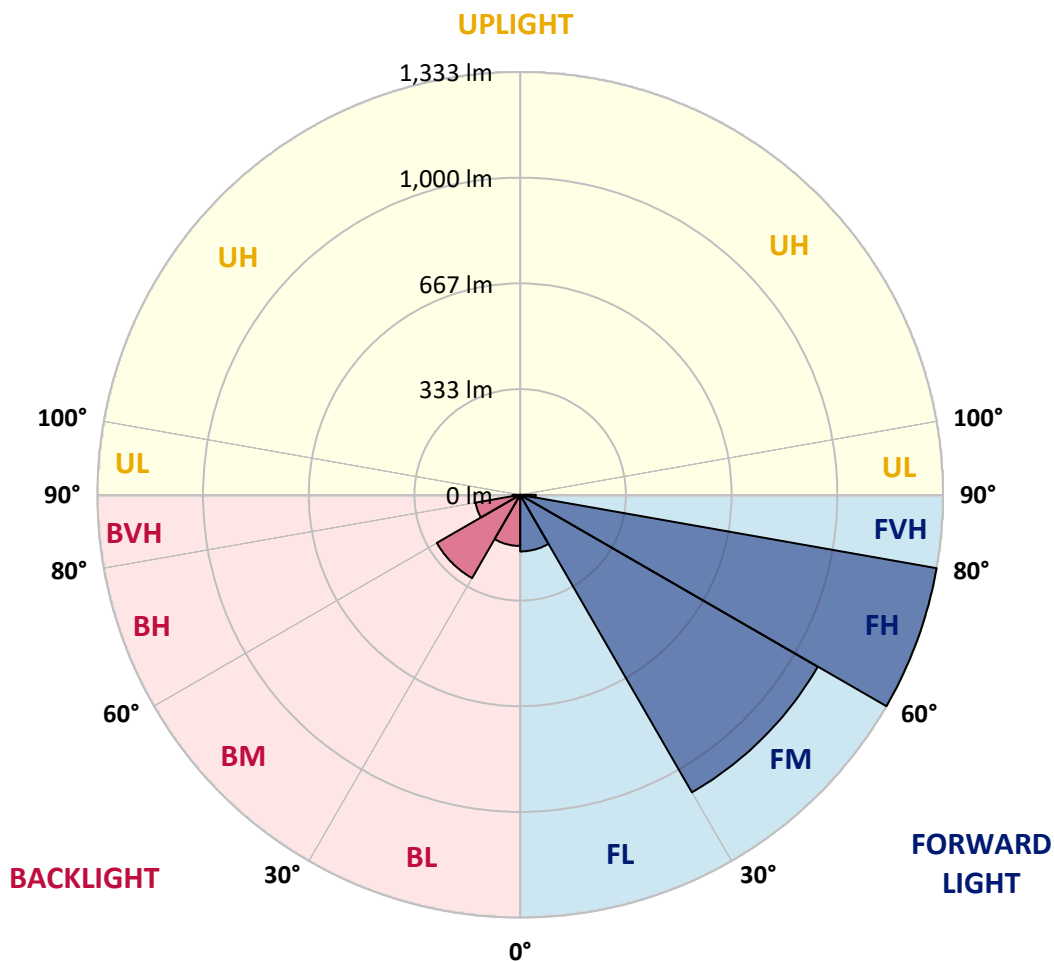
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	178.6	5.4			
FM (30°-60°)	1083.5	33.1			
FH (60°-80°)	1333.5	40.7			G1/1800
FVH (80°-90°)	49.5	1.5			G1/100
BL (0°-30°)	161.3	4.9	B1/500		
BM (30°-60°)	303.5	9.3	B1/1000		
BH (60°-80°)	142.8	4.4	B1/500		G1/500
BVH (80°-90°)	24.3	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°	496.4	496.4	496.4	496.4	496.4	496.4	496.4	496.4	496.4	496.4	496.4
2.5°	477.4	478.7	478.9	480.3	480.3	480.1	480.8	483.3	484.5	487.4	489.9
5°	453.9	455.4	456.0	458.5	461.6	461.8	464.1	468.9	473.5	479.9	485.3
7.5°	427.5	429.1	430.8	436.0	440.6	441.0	445.4	453.1	459.1	467.0	476.8
10°	401.8	402.3	403.9	410.6	416.6	417.3	423.5	432.2	440.4	451.4	462.4
12.5°	380.8	382.1	381.6	386.6	391.8	392.3	400.6	411.6	423.5	436.0	449.1
15°	373.5	373.3	368.9	368.7	371.0	371.4	379.6	392.5	405.8	421.2	438.1
17.5°	378.5	376.9	365.4	358.3	356.9	357.3	363.3	377.5	391.6	409.3	429.5
20°	406.0	399.6	372.7	355.6	350.8	350.8	354.4	365.8	381.4	402.1	427.5
22.5°	471.2	461.2	403.9	373.5	356.7	355.0	352.3	361.0	378.3	403.1	436.0
25°	553.2	548.4	461.2	421.2	386.4	381.0	363.1	366.2	384.8	414.3	459.3
27.5°	629.2	620.9	536.3	490.5	441.4	433.1	395.2	382.5	400.2	435.2	493.0
30°	673.6	667.9	613.6	569.9	511.4	500.7	446.4	414.5	427.7	469.5	540.9
32.5°	721.9	718.5	691.0	651.3	587.1	574.9	512.6	466.8	469.7	515.1	598.6
35°	768.7	773.1	757.5	728.3	668.8	657.3	601.5	535.1	521.6	566.3	660.2
37.5°	824.9	826.0	816.2	797.2	754.5	745.2	699.2	608.0	578.0	620.9	719.8
40°	937.1	920.7	882.4	867.4	842.0	836.2	783.7	674.8	630.5	676.9	776.0
42.5°	1058.5	1032.9	973.0	948.4	938.2	932.8	854.1	719.4	679.6	732.9	831.2
45°	1156.4	1135.6	1076.9	1046.5	1047.7	1039.0	915.5	759.1	732.9	789.1	892.8
47.5°	1252.8	1218.0	1152.2	1147.9	1162.4	1149.5	974.2	798.9	788.5	850.3	954.4
50°	1259.0	1227.4	1200.7	1235.7	1260.7	1244.7	1027.5	851.0	846.2	924.4	1034.0
52.5°	1183.0	1178.5	1219.1	1278.0	1319.4	1305.1	1071.0	904.5	905.1	1017.1	1130.8
55°	1155.4	1149.5	1198.2	1270.7	1326.7	1318.2	1103.5	964.8	970.5	1129.5	1234.7
57.5°	1202.0	1187.4	1197.0	1257.0	1309.6	1304.6	1137.2	1031.9	1042.1	1259.0	1330.7
60°	1346.7	1316.9	1266.1	1277.4	1310.3	1307.3	1185.5	1106.6	1123.7	1394.0	1391.5
62.5°	1563.4	1529.7	1426.2	1376.3	1369.0	1363.4	1265.3	1198.5	1207.0	1491.4	1356.1
65°	1801.2	1765.0	1641.9	1560.1	1517.2	1505.1	1394.0	1309.2	1255.7	1491.2	1218.2
67.5°	2068.1	2029.8	1907.2	1829.1	1782.7	1762.1	1602.8	1398.7	1239.9	1365.0	974.8
70°	2341.5	2305.1	2248.9	2276.1	2296.5	2265.1	1931.8	1428.5	1126.2	1070.2	654.6
72.5°	2196.4	2193.5	2236.2	2494.8	2888.1	2894.3	2260.3	1344.4	870.1	636.1	349.0
73°	2061.7	2074.0	2153.1	2462.5	2938.7	2940.7	2266.8	1300.9	798.9	548.0	306.5
75°	1068.1	1151.4	1445.0	1996.7	2721.1	2730.9	1998.2	984.8	476.2	304.4	206.5
77.5°	286.1	282.3	465.6	972.8	1814.1	1801.2	1262.6	476.8	228.2	190.9	144.9
80°	98.1	99.3	158.4	355.8	846.8	877.0	548.0	208.0	150.1	133.0	102.6
82.5°	50.0	51.6	82.9	151.4	354.2	346.7	176.4	122.4	100.6	80.8	57.5
85°	26.7	27.5	45.6	78.5	129.9	131.4	62.0	65.4	63.9	45.8	28.3
87.5°	13.1	13.5	21.9	34.6	48.1	46.4	21.7	28.3	31.4	25.8	15.6
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°	496.4	496.4	496.4	496.4	496.4	496.4	496.4	496.4	496.4	496.4	496.4
2.5°	493.0	493.0	495.7	500.3	503.7	506.8	508.9	512.2	514.1	513.9	513.7
5°	489.7	491.8	497.2	502.8	506.6	509.1	509.1	510.5	510.5	509.9	509.1
7.5°	482.0	485.5	493.5	498.5	499.5	496.8	491.4	487.2	482.0	479.3	478.3
10°	469.7	474.3	484.3	486.6	481.2	471.6	458.5	447.2	437.2	432.7	431.2
12.5°	457.6	463.7	473.1	469.5	456.6	437.9	417.7	402.3	391.0	386.6	385.2
15°	447.6	454.9	462.2	451.2	428.7	402.7	380.4	366.0	357.5	354.2	353.3
17.5°	441.0	449.5	452.0	431.4	400.2	371.0	351.2	341.9	338.1	336.7	336.3
20°	441.4	451.0	444.9	412.3	372.7	343.3	330.2	327.5	327.5	327.5	327.3
22.5°	452.9	461.2	442.0	394.3	346.3	320.0	314.4	316.7	318.4	318.4	318.1
25°	476.6	481.2	444.1	377.1	321.5	299.8	300.0	304.4	305.9	305.9	305.4
27.5°	512.8	509.1	447.9	357.9	297.1	281.5	284.4	288.4	289.4	288.8	288.6
30°	558.2	543.2	451.0	335.4	274.2	264.4	266.9	269.2	268.4	266.9	266.7
32.5°	609.0	578.0	449.1	310.2	254.0	246.7	248.2	249.4	248.2	244.6	244.6
35°	659.4	609.4	438.9	282.7	238.0	229.7	229.4	233.4	233.2	229.0	229.2
37.5°	703.5	634.2	419.1	257.6	224.2	217.2	218.0	220.5	221.7	216.1	215.5
40°	742.1	651.3	391.2	236.1	213.2	213.6	211.3	207.4	205.9	203.4	203.0
42.5°	778.3	663.1	361.7	218.2	207.6	212.4	204.7	195.3	191.3	193.6	195.1
45°	813.9	676.5	333.1	203.4	200.5	208.6	198.0	187.6	183.0	184.1	185.5
47.5°	857.4	695.0	298.8	187.6	189.7	201.8	193.8	182.6	175.7	171.6	170.3
50°	914.7	721.9	254.2	170.5	178.2	194.3	190.3	175.3	167.8	159.5	157.4
52.5°	986.3	747.3	209.3	156.8	168.9	187.8	184.5	169.1	159.9	149.9	148.2
55°	1057.7	750.8	170.5	144.9	158.2	179.1	177.4	164.1	151.2	143.0	141.4
57.5°	1107.7	717.3	144.5	134.9	148.0	168.2	170.9	158.0	143.9	137.6	136.6
60°	1108.5	637.1	128.7	128.3	140.3	158.9	164.3	151.0	139.3	135.1	134.3
62.5°	1020.4	513.4	118.5	123.3	134.7	151.2	159.3	147.0	138.3	136.6	135.8
65°	855.3	379.4	110.4	118.7	129.5	144.7	155.1	145.7	137.8	137.2	136.6
67.5°	631.5	260.1	103.5	112.8	123.7	138.0	151.2	143.9	135.3	137.8	137.0
70°	397.3	173.6	97.0	106.2	116.0	130.3	146.0	140.5	132.2	130.8	128.0
72.5°	224.2	125.6	89.3	97.7	106.0	120.1	138.9	134.9	125.1	119.3	116.6
73°	202.6	118.9	87.4	95.6	103.7	118.1	137.2	133.3	123.1	116.6	114.1
75°	148.2	97.2	78.9	87.0	94.1	108.5	129.3	124.9	113.9	106.2	104.5
77.5°	107.4	75.0	67.9	75.2	81.4	95.2	117.4	112.4	101.6	97.4	95.8
80°	77.5	56.8	56.2	63.3	68.7	82.7	104.7	99.5	89.1	101.4	98.7
82.5°	46.2	36.4	41.2	49.1	54.8	69.3	91.0	84.9	75.0	75.8	64.5
85°	22.1	20.6	25.6	32.3	36.2	47.5	75.8	71.0	60.0	49.1	48.1
87.5°	9.8	9.4	12.3	14.4	19.4	28.5	51.8	46.0	43.5	26.0	20.4
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)