

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: McGRAW-EDISON

Report Number: P594549

Luminaire Tested: **ISS-PA1B-730-U-T4W**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P594549
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-12)
Test Lab: INNOVATION CENTER
Issue Date: 3/22/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: ISS-PA1B-730-U-T4W
Description: IMPACT ELITE LED QUARTER SPHERE LUMINAIRE
(1) 70 CRI, 3000K, 450mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4741 lumens
Efficiency: N/A
Efficacy: 130.2 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G2

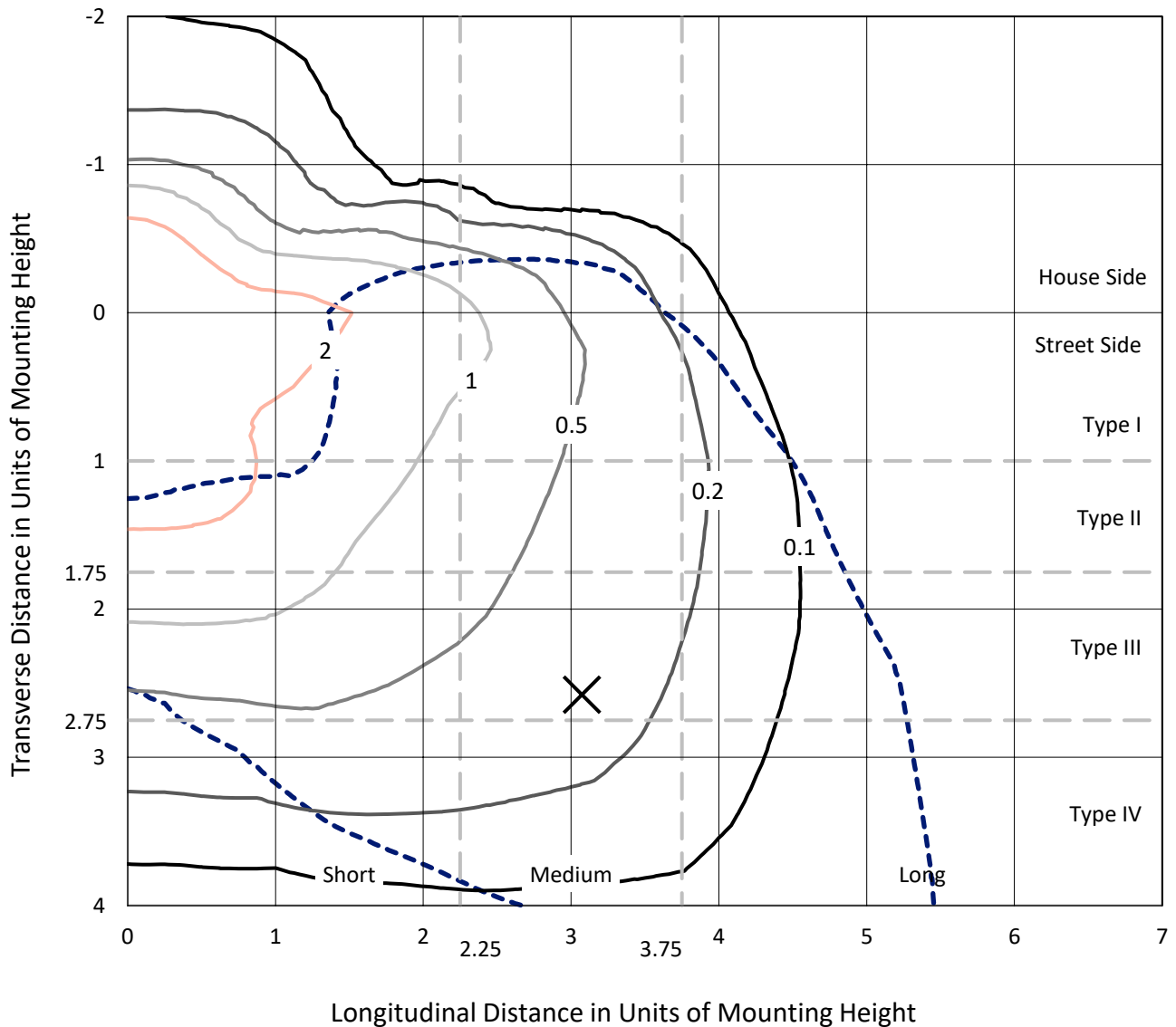
Input Watts (W): 36.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

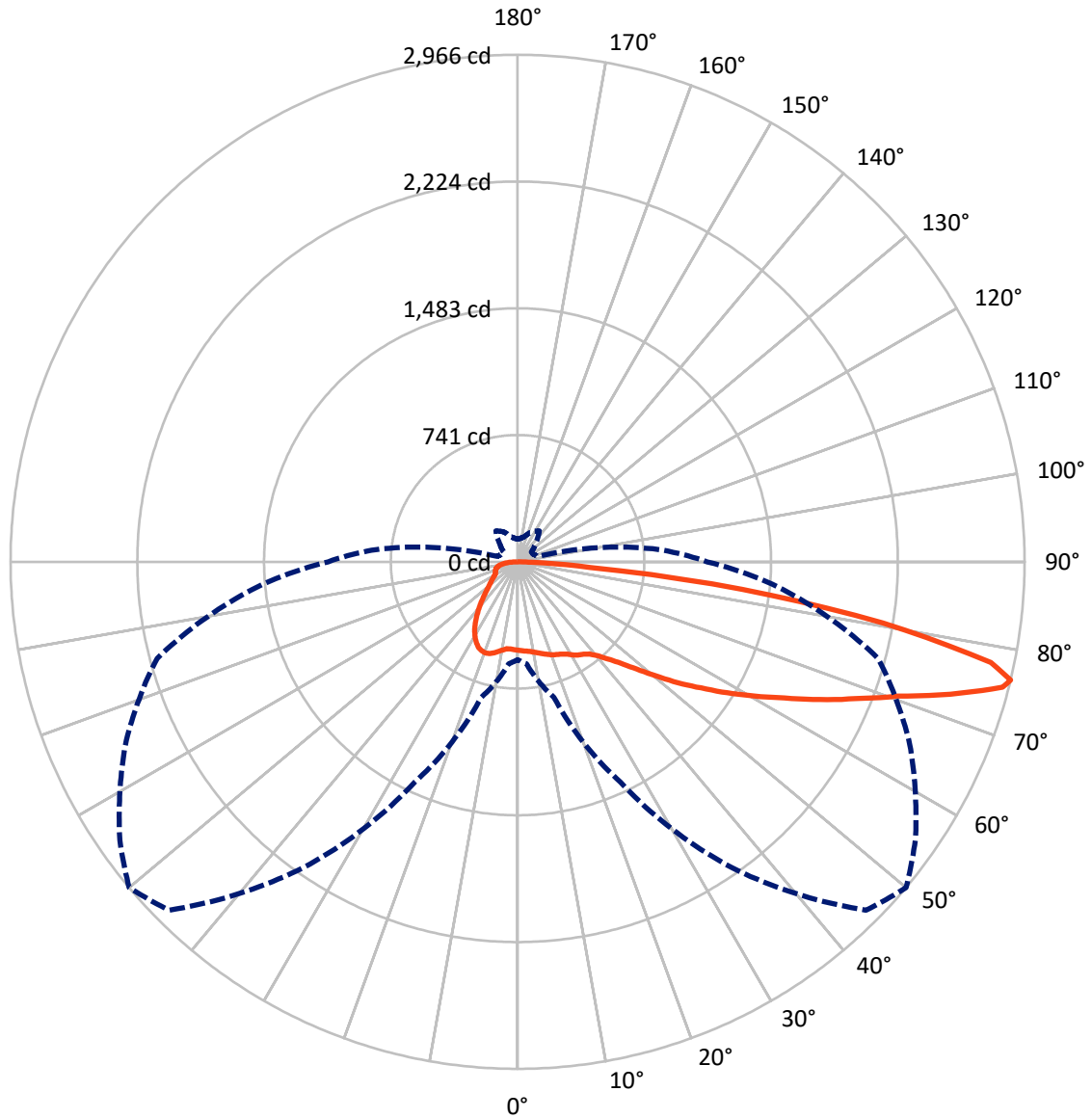
× Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 3.9 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 50-Deg Lateral - - - Horizontal Cone Through 76-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1084.6	0.0	1084.6
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	3656.4	0.0	3656.4
	% Fixture	77.1	0.0	77.1
Total	Lumens	4741.0	0.0	4741.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.2	1.1
10°-20°	157.8	3.3
20°-30°	266.5	5.6
30°-40°	365.3	7.7
40°-50°	538.0	11.3
50°-60°	846.3	17.9
60°-70°	1218.2	25.7
70°-80°	1107.6	23.4
80°-90°	191.2	4.0
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°	4741.0	100.0
0°-180°	4741.0	100.0

Coefficient of Utilization

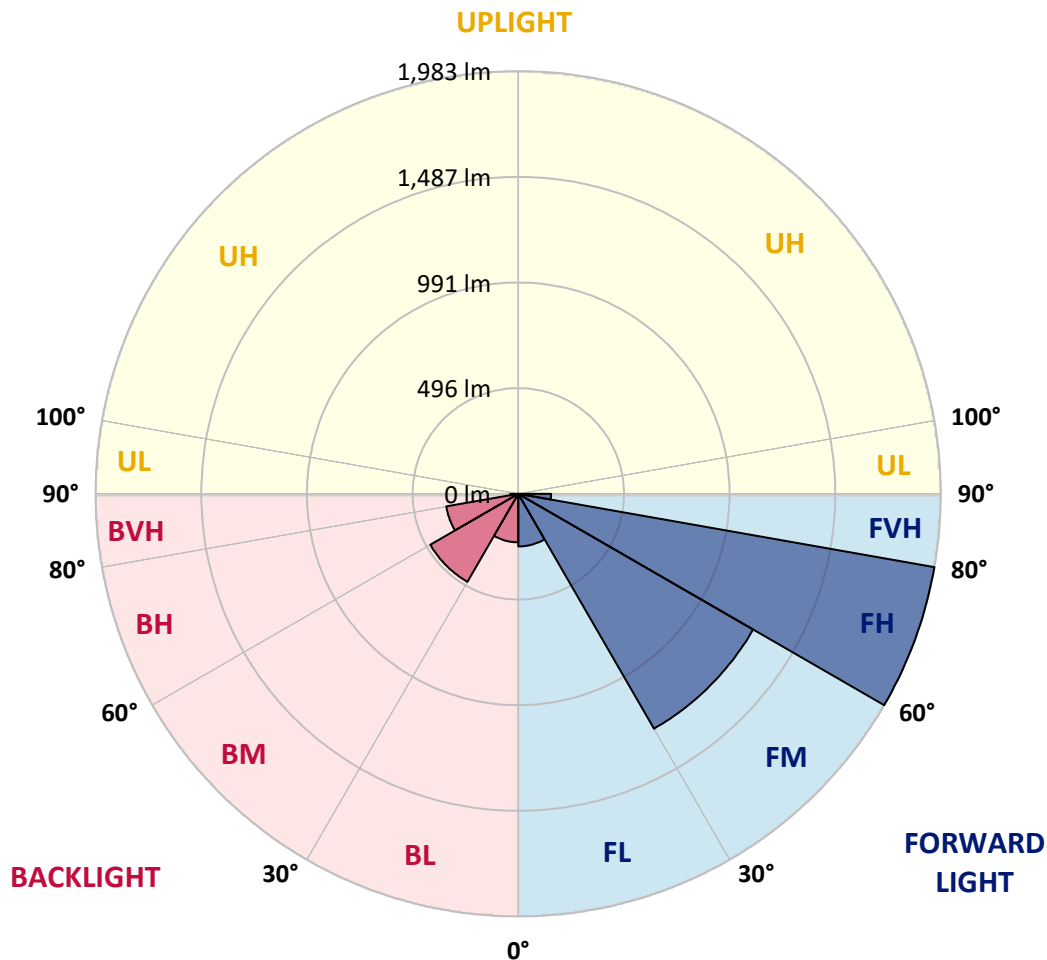


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	246.8	5.2			
FM (30°-60°)	1272.9	26.8			
FH (60°-80°)	1982.9	41.8			G2/5000
FVH (80°-90°)	153.9	3.2			G2/225
BL (0°-30°)	227.7	4.8	B1/500		
BM (30°-60°)	476.7	10.1	B1/1000		
BH (60°-80°)	342.9	7.2	B1/500		G1/500
BVH (80°-90°)	37.3	0.8			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2
 Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
0°	516.8	516.8	516.8	516.8	516.8	516.8	516.8	516.8	516.8	516.8	516.8
2.5°	528.4	528.4	529.5	527.2	527.2	521.4	521.4	520.2	517.9	516.8	514.4
5°	548.1	548.1	544.6	538.8	535.3	528.4	524.9	522.6	517.9	512.1	506.3
7.5°	569.0	566.7	564.4	555.1	548.1	535.3	529.5	526.0	516.8	508.6	505.1
10°	591.1	587.6	581.8	570.2	559.7	544.6	537.7	533.0	522.6	515.6	507.5
12.5°	603.9	603.9	596.9	582.9	569.0	550.4	547.0	541.1	530.7	521.4	513.3
15°	616.6	617.8	610.8	594.6	578.3	564.4	558.6	555.1	543.5	529.5	519.1
17.5°	629.4	628.2	621.3	602.7	585.3	572.5	569.0	564.4	552.8	540.0	529.5
20°	638.7	636.4	634.0	610.8	593.4	585.3	580.6	577.1	565.5	551.6	537.7
22.5°	641.0	643.3	641.0	613.1	599.2	589.9	588.8	585.3	576.0	563.2	549.3
25°	642.2	643.3	646.8	620.1	607.3	600.4	598.0	595.7	588.8	578.3	559.7
27.5°	648.0	649.1	649.1	624.8	617.8	613.1	610.8	610.8	607.3	594.6	576.0
30°	649.1	650.3	652.6	636.4	634.0	630.6	631.7	630.6	624.8	610.8	589.9
32.5°	657.3	658.4	664.2	643.3	645.7	649.1	650.3	649.1	637.5	625.9	608.5
35°	684.0	682.8	687.5	660.8	658.4	659.6	663.1	661.9	657.3	646.8	635.2
37.5°	769.9	769.9	757.1	701.4	684.0	681.7	684.0	689.8	690.9	681.7	672.4
40°	920.9	912.7	905.8	785.0	729.3	715.3	722.3	725.8	735.1	735.1	735.1
42.5°	1076.5	1077.6	1075.3	915.1	810.6	775.7	776.9	785.0	804.7	808.2	818.7
45°	1214.7	1222.8	1240.2	1066.0	930.2	852.4	844.2	852.4	880.2	903.5	930.2
47.5°	1322.7	1313.4	1351.7	1224.0	1067.2	956.9	936.0	938.3	976.6	1013.8	1055.6
50°	1415.6	1417.9	1435.3	1385.4	1240.2	1075.3	1047.5	1042.8	1097.4	1136.9	1207.7
52.5°	1520.1	1513.1	1538.7	1527.0	1408.6	1220.5	1176.4	1162.4	1221.6	1277.4	1354.0
55°	1570.0	1577.0	1629.2	1658.3	1567.7	1350.5	1301.8	1306.4	1369.1	1428.3	1535.2
57.5°	1658.3	1665.2	1725.6	1786.0	1709.4	1488.7	1445.8	1445.8	1516.6	1582.8	1747.7
60°	1779.0	1780.2	1841.7	1946.3	1833.6	1622.3	1594.4	1593.2	1669.9	1746.5	1998.5
62.5°	1832.5	1846.4	1938.1	2074.0	1996.2	1786.0	1753.5	1762.8	1831.3	1920.7	2278.4
65°	1760.5	1790.7	1982.3	2159.9	2141.4	1956.7	1943.9	1956.7	1998.5	2094.9	2574.5
67.5°	1522.4	1563.0	1901.0	2218.0	2257.5	2154.1	2135.5	2133.2	2159.9	2267.9	2761.5
70°	1399.3	1423.7	1686.1	2240.1	2350.4	2353.9	2353.9	2338.8	2335.3	2414.2	2778.9
72.5°	1152.0	1177.5	1422.5	2117.0	2438.6	2621.0	2647.7	2591.9	2506.0	2489.7	2487.4
75°	821.0	839.6	1050.9	1665.2	2326.0	2877.6	2931.0	2823.0	2583.8	2324.8	1813.9
76°	572.5	599.2	821.0	1422.5	2184.3	2882.2	2965.8	2840.4	2531.5	2183.2	1494.5
77.5°	290.3	299.6	475.0	955.7	1827.8	2749.9	2831.1	2690.6	2303.9	1763.9	948.7
80°	110.3	113.8	169.5	348.4	1003.3	2135.5	2166.9	1977.6	1524.7	753.7	341.4
82.5°	58.1	60.4	95.2	171.9	412.2	1174.0	1325.0	1103.2	598.0	226.4	99.9
85°	29.0	31.4	55.7	104.5	204.4	367.0	425.0	401.8	198.6	85.9	37.2
87.5°	11.6	13.9	27.9	46.5	82.4	72.0	80.1	103.4	63.9	40.6	12.8
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°	516.8	516.8	516.8	516.8	516.8	516.8	516.8	516.8	516.8	516.8	516.8
2.5°	514.4	513.3	514.4	513.3	514.4	514.4	515.6	513.3	513.3	515.6	512.1
5°	506.3	505.1	506.3	508.6	509.8	512.1	516.8	515.6	517.9	520.2	521.4
7.5°	502.8	501.7	505.1	506.3	509.8	514.4	521.4	526.0	528.4	533.0	530.7
10°	506.3	506.3	511.0	514.4	520.2	526.0	531.9	536.5	542.3	545.8	544.6
12.5°	512.1	511.0	519.1	523.7	531.9	537.7	542.3	544.6	549.3	553.9	552.8
15°	517.9	519.1	530.7	540.0	549.3	551.6	552.8	550.4	552.8	555.1	555.1
17.5°	529.5	530.7	543.5	553.9	562.0	559.7	553.9	548.1	548.1	549.3	550.4
20°	538.8	541.1	556.2	565.5	570.2	560.9	551.6	544.6	541.1	542.3	541.1
22.5°	549.3	553.9	569.0	573.7	566.7	555.1	543.5	534.2	534.2	535.3	535.3
25°	562.0	564.4	574.8	572.5	559.7	542.3	533.0	529.5	528.4	529.5	530.7
27.5°	573.7	574.8	580.6	564.4	540.0	521.4	517.9	519.1	520.2	521.4	522.6
30°	588.8	591.1	585.3	552.8	515.6	494.7	494.7	501.7	504.0	507.5	506.3
32.5°	607.3	609.7	592.2	537.7	484.2	463.3	464.5	475.0	481.9	484.2	485.4
35°	638.7	634.0	596.9	516.8	450.6	425.0	426.2	439.0	448.2	451.7	449.4
37.5°	677.0	675.9	603.9	490.0	408.8	385.5	386.7	392.5	401.8	403.0	404.1
40°	740.9	731.6	615.5	455.2	367.0	344.9	342.6	346.1	344.9	347.2	348.4
42.5°	832.6	808.2	630.6	415.7	329.8	306.6	304.2	298.4	291.5	284.5	281.0
45°	940.6	902.3	649.1	375.1	291.5	270.6	264.8	257.8	243.9	228.8	224.1
47.5°	1080.0	1006.8	670.0	334.4	255.5	239.2	234.6	224.1	207.9	190.4	187.0
50°	1222.8	1129.9	690.9	300.8	226.4	217.2	212.5	202.1	181.2	164.9	161.4
52.5°	1388.9	1251.8	713.0	270.6	200.9	200.9	197.4	181.2	161.4	146.3	144.0
55°	1580.5	1377.2	747.8	241.5	182.3	187.0	182.3	166.1	147.5	137.0	135.9
57.5°	1809.2	1536.3	792.0	210.2	166.1	169.5	169.5	157.9	145.2	138.2	137.0
60°	2039.2	1697.8	819.8	187.0	153.3	156.8	163.7	157.9	149.8	146.3	145.2
62.5°	2259.8	1862.7	772.2	167.2	140.5	151.0	168.4	169.5	161.4	162.6	162.6
65°	2424.7	1988.1	624.8	149.8	132.4	154.4	182.3	183.5	169.5	166.1	164.9
67.5°	2481.6	2022.9	420.4	138.2	127.7	156.8	198.6	193.9	169.5	162.6	159.1
70°	2373.6	1895.2	272.9	127.7	120.8	154.4	211.3	199.7	168.4	157.9	153.3
72.5°	1990.4	1616.5	182.3	118.4	113.8	152.1	219.5	199.7	164.9	149.8	145.2
75°	1381.9	1104.4	135.9	106.8	103.4	148.6	221.8	196.3	156.8	140.5	137.0
76°	1109.0	828.0	123.1	102.2	98.7	146.3	220.6	192.8	151.0	135.9	132.4
77.5°	700.2	476.1	103.4	94.1	91.7	141.7	216.0	184.6	142.8	127.7	124.3
80°	245.0	174.2	79.0	76.6	77.8	131.2	203.2	168.4	126.6	112.6	108.0
82.5°	97.5	80.1	59.2	59.2	61.5	112.6	183.5	148.6	110.3	92.9	85.9
85°	38.3	34.8	41.8	41.8	44.1	91.7	153.3	116.1	75.5	58.1	55.7
87.5°	11.6	16.3	18.6	19.7	20.9	46.5	87.1	51.1	33.7	24.4	19.7
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)