

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: P298916

Luminaire Tested: **GLNA-AF-01-LED-E1-T2-7030-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P298916  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24139)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GLNA-AF-01-LED-E1-T2-7030-800  
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 3000K CCT 800mA LIGHTSQUARE WITH 16 LEDS EACH AND Type II OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4762.9 lumens  
Efficiency: N/A  
Efficacy: 108.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium - Full Cutoff  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 44  
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: 25 FT

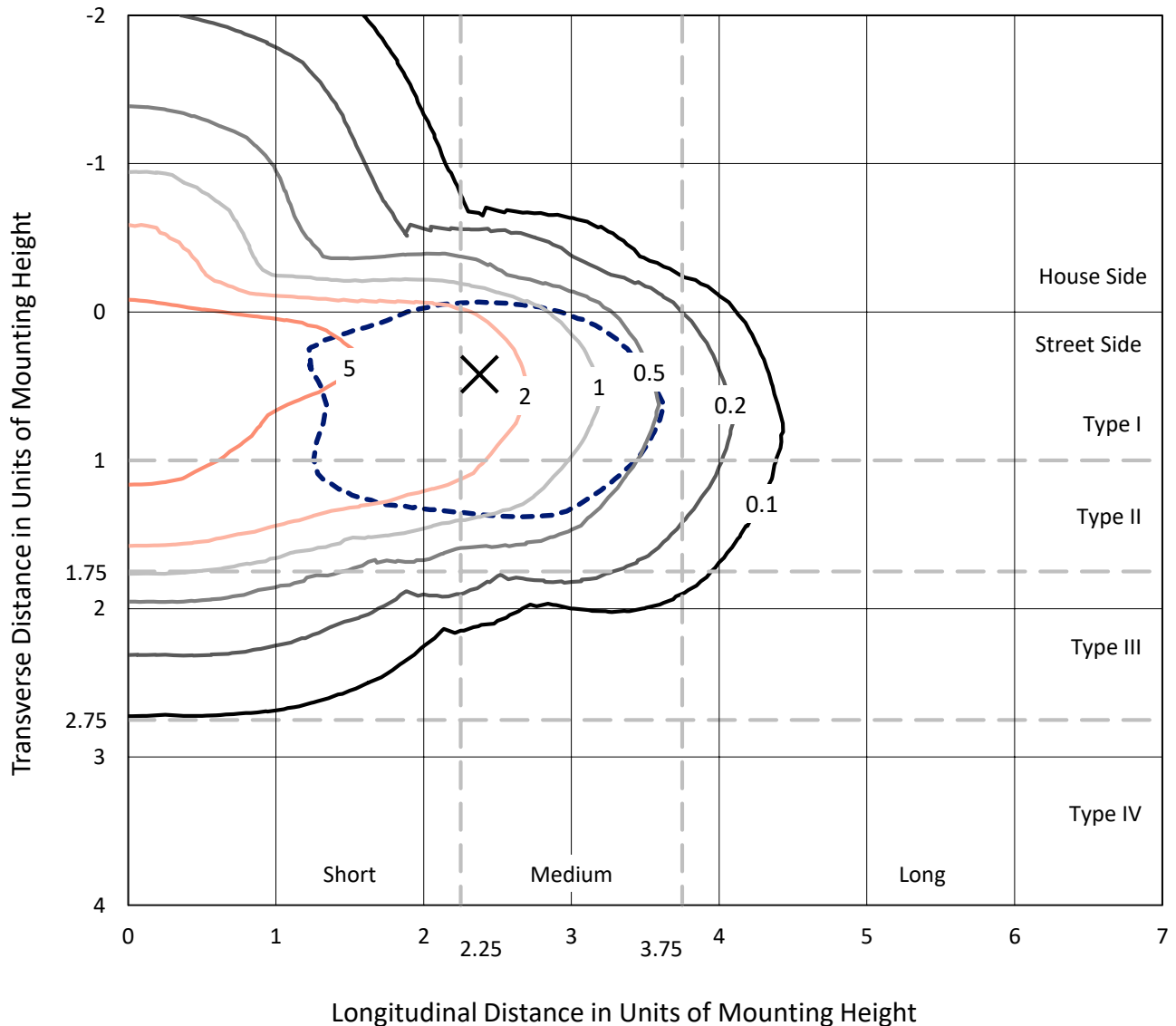


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

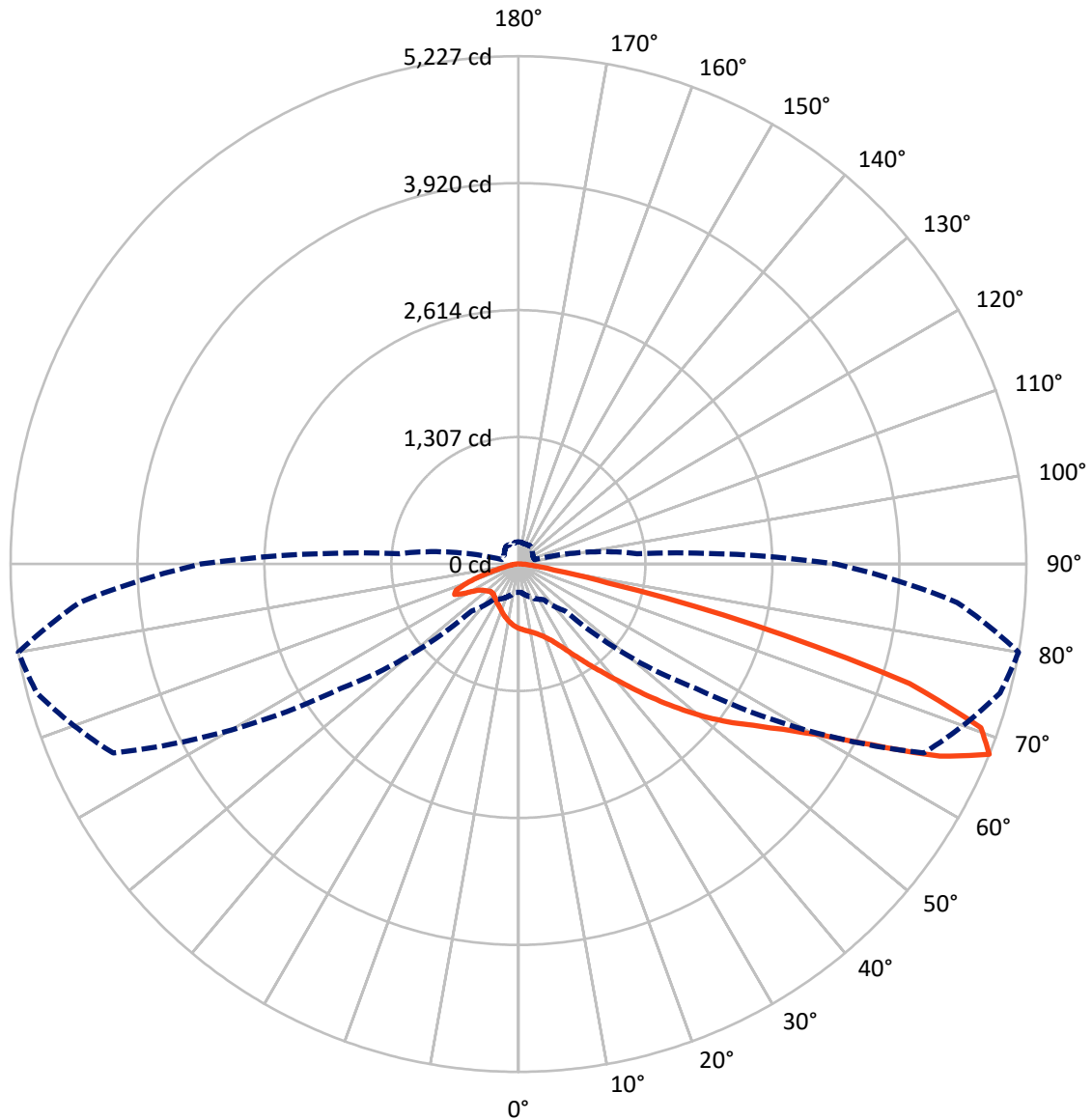


Based on 10 foot mounting height. Maximum calculated value = 8 fc  
 Type II - Medium - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 80-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	877.1	0.0	877.1
	% Fixture	18.4	0.0	18.4
<b>Street Side</b>	Lumens	3885.8	0.0	3885.8
	% Fixture	81.6	0.0	81.6
<b>Total</b>	Lumens	4762.9	0.0	4762.9
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	61.0	1.3
10°-20°	175.8	3.7
20°-30°	291.0	6.1
30°-40°	476.1	10.0
40°-50°	768.7	16.1
50°-60°	1109.7	23.3
60°-70°	1224.7	25.7
70°-80°	564.5	11.9
80°-90°	91.3	1.9
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°	4762.9	100.0
0°-180°	4762.9	100.0



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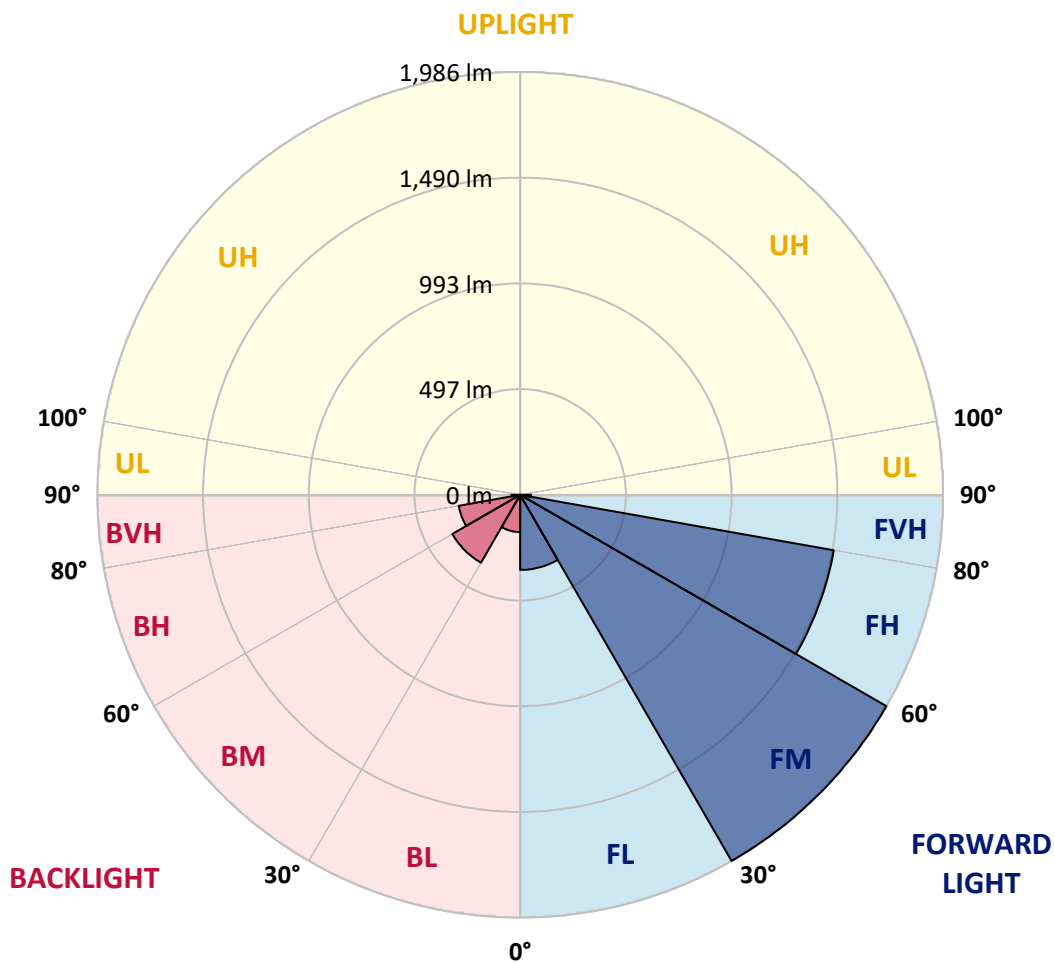
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	352.9	7.4			
FM (30°-60°)	1986.5	41.7			
FH (60°-80°)	1496.1	31.4			G1/1800
FVH (80°-90°)	50.2	1.1			G1/100
BL (0°-30°)	175.0	3.7	B1/500		
BM (30°-60°)	368.0	7.7	B1/1000		
BH (60°-80°)	293.0	6.2	B1/500		G1/500
BVH (80°-90°)	41.1	0.9			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 II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	80°	85°
0°	661.7	661.7	661.7	661.7	661.7	661.7	661.7	661.7	661.7	661.7	661.7
2.5°	723.8	719.6	720.3	719.2	715.6	709.5	703.0	691.0	678.6	672.0	666.9
5°	784.3	783.2	781.5	777.8	768.9	756.2	740.5	719.4	696.6	684.7	673.2
7.5°	829.6	828.9	826.8	824.4	815.8	800.5	776.8	746.8	713.8	697.3	679.5
10°	833.3	834.5	836.2	842.5	843.7	835.5	811.3	775.0	731.6	710.5	687.7
12.5°	801.5	804.0	810.4	826.5	843.7	853.7	841.3	804.5	752.4	726.9	698.0
15°	759.2	760.7	768.4	790.7	821.4	852.6	864.3	837.1	779.4	748.0	713.5
17.5°	741.2	741.9	747.3	762.1	790.7	835.2	877.2	872.5	812.5	774.3	732.5
20°	732.0	733.7	741.4	756.0	774.0	812.9	879.1	910.7	851.9	807.1	756.4
22.5°	758.1	757.4	760.2	767.5	782.7	806.1	877.7	950.1	902.0	849.3	787.6
25°	818.8	821.4	816.5	808.3	813.2	829.6	885.2	992.8	964.9	903.5	828.4
27.5°	905.3	902.8	895.5	876.3	866.2	873.2	910.0	1038.7	1043.0	974.7	882.4
30°	991.6	989.5	982.5	959.0	938.4	932.5	958.3	1091.5	1136.1	1060.3	948.5
32.5°	1081.2	1078.8	1072.3	1048.8	1024.0	1010.4	1027.0	1152.5	1245.8	1162.6	1026.3
35°	1191.6	1187.2	1173.3	1140.7	1116.4	1105.8	1113.5	1229.1	1372.4	1283.5	1120.8
37.5°	1295.5	1302.3	1288.2	1243.2	1211.6	1207.8	1216.5	1322.7	1508.9	1418.8	1229.4
40°	1399.9	1401.0	1388.4	1351.5	1319.0	1312.9	1334.7	1436.2	1670.0	1580.6	1361.4
42.5°	1507.7	1510.1	1488.7	1454.7	1430.8	1432.0	1456.8	1569.1	1854.7	1771.3	1513.3
45°	1635.5	1639.0	1615.6	1571.0	1549.2	1593.1	1582.7	1718.3	2057.3	1987.9	1687.8
47.5°	1769.2	1774.6	1756.7	1715.0	1687.8	1748.1	1708.7	1883.6	2275.4	2220.3	1879.4
50°	1842.1	1849.8	1867.2	1864.1	1858.3	1848.2	1849.1	2060.9	2500.3	2462.3	2076.3
52.5°	1802.9	1802.7	1866.0	1942.9	2025.0	2031.1	2020.3	2247.7	2710.4	2698.9	2261.8
55°	1623.8	1636.0	1731.9	1880.8	2104.9	2244.9	2276.8	2461.8	2916.7	2930.1	2450.1
57.5°	1325.5	1335.6	1465.0	1672.6	1997.1	2372.0	2641.7	2773.0	3147.4	3209.8	2700.7
60°	899.0	911.2	1048.4	1297.6	1706.8	2301.2	2988.9	3328.2	3423.7	3565.5	3052.5
62.5°	528.3	539.3	651.2	818.6	1201.7	1972.2	3141.3	4118.2	3862.4	4102.2	3589.0
65°	363.7	371.2	425.6	509.5	690.5	1328.3	2952.3	4663.6	4537.4	4767.2	4211.0
67.5°	292.6	291.7	334.8	392.1	444.6	684.9	2232.5	4601.9	5131.1	5227.0	4533.9
70°	241.0	240.1	269.4	316.8	355.2	385.7	1216.0	3883.5	5010.2	5049.1	4236.6
72.5°	201.7	202.6	221.3	256.5	291.5	290.5	534.4	2731.9	3941.4	4210.6	3377.2
75°	170.2	170.7	183.1	208.0	236.6	234.0	289.8	1480.0	2291.1	2478.5	1872.1
77.5°	144.9	145.4	153.4	167.2	187.6	186.6	211.5	639.4	955.7	944.0	640.4
80°	129.2	129.2	133.0	135.5	146.8	142.6	156.9	307.2	404.0	373.1	255.6
82.5°	101.3	101.8	124.7	123.8	115.6	110.2	110.2	181.0	214.1	197.9	149.6
85°	57.0	56.7	80.4	97.1	101.8	77.6	76.9	101.3	116.5	102.7	72.5
87.5°	24.4	24.9	37.3	43.1	57.7	48.3	47.6	52.3	59.3	51.4	33.5
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°	661.7	661.7	661.7	661.7	661.7	661.7	661.7	661.7	661.7	661.7	661.7
2.5°	661.9	655.8	642.5	625.8	610.8	601.0	592.1	579.2	579.9	571.0	564.4
5°	661.5	648.8	617.9	581.0	545.6	520.1	500.9	483.5	479.3	471.1	466.1
7.5°	661.9	641.3	589.3	530.4	486.5	454.2	437.8	428.6	426.5	423.7	423.9
10°	663.6	634.5	557.8	483.0	437.1	415.7	411.7	414.6	417.8	418.8	419.0
12.5°	667.3	628.4	523.4	440.8	406.1	399.6	406.4	416.0	422.3	425.3	425.1
15°	675.8	623.7	490.3	407.8	389.0	392.5	405.2	418.8	427.9	432.1	432.4
17.5°	684.9	616.9	456.3	382.4	376.3	385.3	401.0	416.9	428.2	432.9	433.8
20°	696.9	608.5	420.7	363.4	364.4	374.5	389.2	405.2	417.6	421.6	423.5
22.5°	712.6	599.3	389.5	348.0	350.8	358.5	370.0	383.8	394.6	396.5	398.1
25°	733.7	589.5	364.6	333.9	335.1	339.5	347.3	355.5	363.0	360.9	362.5
27.5°	762.1	581.0	346.1	321.0	318.9	319.8	323.8	326.4	330.4	324.5	325.2
30°	795.4	571.9	331.8	309.7	303.9	302.2	303.2	304.6	307.6	299.7	298.5
32.5°	834.0	560.9	318.4	299.9	291.7	288.4	288.9	292.6	304.4	299.4	296.9
35°	879.1	548.5	304.4	289.1	283.5	278.8	278.3	290.1	325.0	321.9	319.6
37.5°	931.8	536.0	290.3	276.9	277.4	272.2	270.6	284.0	329.0	317.0	315.4
40°	998.9	529.5	278.3	264.0	269.9	269.2	265.9	272.7	302.7	280.9	278.1
42.5°	1081.9	530.4	269.4	250.2	261.0	268.5	263.3	263.6	274.3	257.9	255.3
45°	1184.4	541.4	263.1	239.2	250.9	267.8	262.4	258.6	259.6	250.9	249.5
47.5°	1303.9	564.2	258.6	230.0	241.3	265.2	262.1	257.2	255.1	250.4	249.3
50°	1436.9	597.2	255.3	221.3	232.6	261.0	262.4	255.8	253.5	251.6	250.9
52.5°	1567.5	635.0	250.4	213.8	225.8	255.8	263.1	254.4	251.8	250.4	249.7
55°	1713.1	682.1	242.9	207.5	220.2	249.3	263.1	252.3	249.5	249.7	249.5
57.5°	1909.8	758.3	234.0	202.1	213.4	241.3	258.6	250.0	246.4	246.7	246.9
60°	2217.3	892.7	223.2	196.7	204.9	231.9	252.5	244.8	241.3	242.2	242.5
62.5°	2669.3	1089.9	209.2	188.8	196.0	221.8	244.1	238.2	234.7	237.1	237.1
65°	3139.2	1263.9	191.8	178.7	186.6	210.8	233.5	230.0	226.5	231.9	231.7
67.5°	3265.6	1224.9	174.5	167.7	177.3	198.6	220.9	219.0	217.1	226.5	226.0
70°	2901.0	983.4	158.5	156.4	167.0	185.5	207.3	207.3	206.1	213.1	211.5
72.5°	2210.2	697.3	143.3	144.4	155.2	171.2	192.5	194.2	192.3	195.8	194.4
75°	1183.2	399.1	128.0	131.3	140.7	156.6	176.1	177.7	176.6	176.3	177.0
77.5°	393.2	195.1	112.1	117.2	125.4	141.6	159.0	161.6	158.7	158.3	158.0
80°	175.2	122.6	94.5	101.3	108.6	124.5	140.9	143.0	140.0	144.2	138.8
82.5°	112.6	80.7	75.7	83.2	90.3	107.4	122.9	123.3	120.5	140.0	119.4
85°	54.6	49.9	57.0	63.8	69.9	84.4	101.8	102.0	95.0	86.5	83.5
87.5°	27.2	29.1	38.0	44.1	47.1	57.9	74.1	72.7	69.6	63.3	58.4
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)