

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: P451053

Luminaire Tested: **GALN-SA1D-827-U-T3**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P451053  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA1D-827-U-T3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 2700K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5706 lumens  
Efficiency: N/A  
Efficacy: 87.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G1

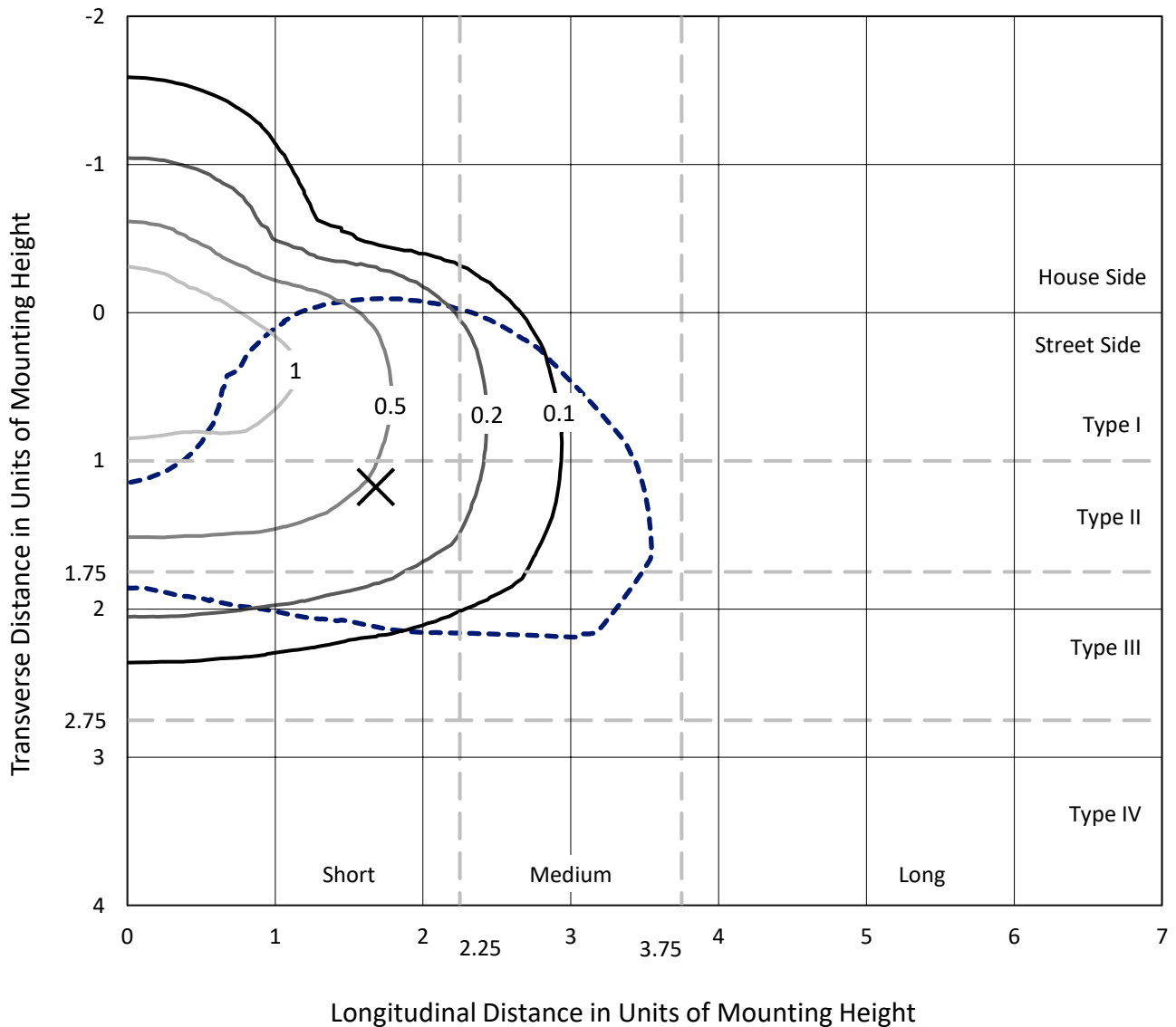
Input Watts (W): 65  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

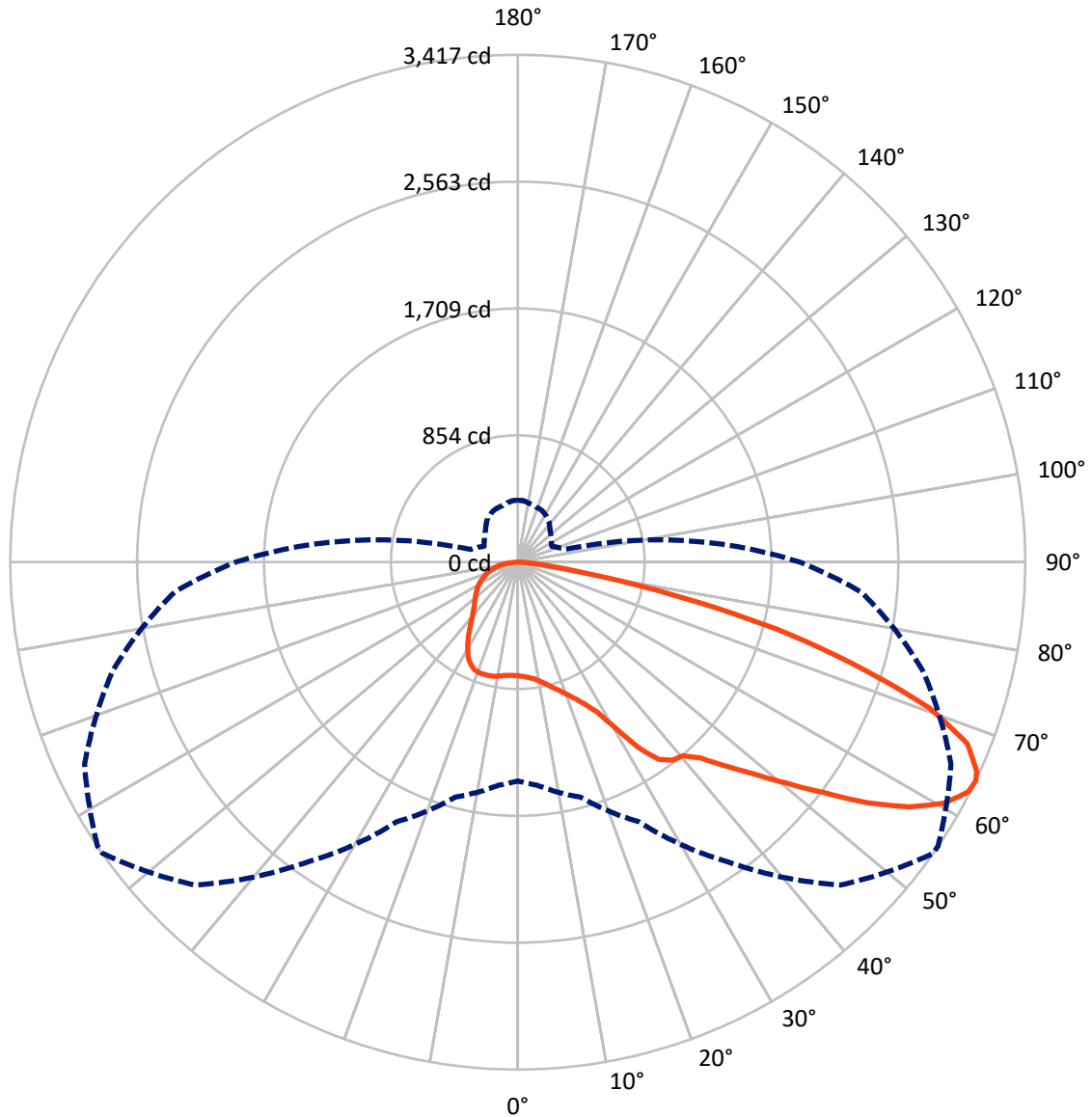
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral    - - - Horizontal Cone Through 64-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1386.1	0.0	1386.1
	% Fixture	24.3	0.0	24.3
<b>Street Side</b>	Lumens	4319.9	0.0	4319.9
	% Fixture	75.7	0.0	75.7
<b>Total</b>	Lumens	5706.0	0.0	5706.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	74.5	1.3
10°-20°	235.0	4.1
20°-30°	418.3	7.3
30°-40°	643.6	11.3
40°-50°	912.4	16.0
50°-60°	1320.7	23.1
60°-70°	1366.7	24.0
70°-80°	640.1	11.2
80°-90°	94.8	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°	5706.0	100.0
0°-180°	5706.0	100.0

**Coefficient of Utilization**



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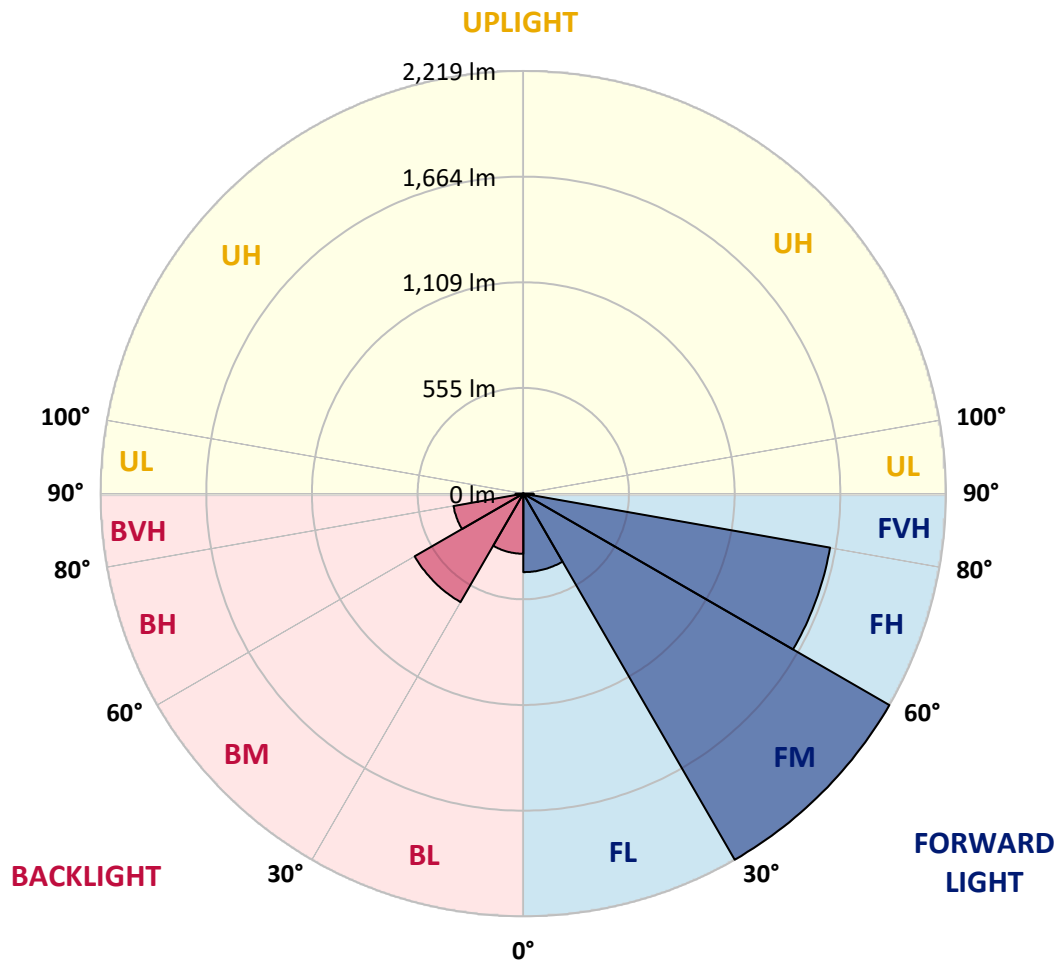
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	412.1	7.2			
FM	(30°-60°)	2218.6	38.9			
FH	(60°-80°)	1634.9	28.7			G1/1800
FVH	(80°-90°)	54.3	1.0			G1/100
BL	(0°-30°)	315.7	5.5	B1/500		
BM	(30°-60°)	658.0	11.5	B1/1000		
BH	(60°-80°)	371.9	6.5	B1/500		G1/500
BVH	(80°-90°)	40.5	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°	56°	65°	75°	85°
0°	765.6	765.6	765.6	765.6	765.6	765.6	765.6	765.6	765.6	765.6	765.6
2.5°	774.2	773.8	774.8	773.8	774.5	772.3	771.3	771.9	771.0	769.4	766.5
5°	783.7	783.4	783.7	782.4	783.1	781.8	779.6	780.2	778.6	775.1	771.0
7.5°	799.9	798.7	798.7	798.3	797.1	795.2	793.6	792.9	791.3	786.9	780.5
10°	820.9	820.9	821.2	818.7	820.3	816.8	815.2	814.9	809.5	803.7	794.8
12.5°	848.6	850.2	849.2	848.0	847.3	846.0	840.6	841.9	835.9	826.0	815.2
15°	882.9	885.5	883.9	883.3	881.7	876.9	874.7	873.7	865.8	851.4	837.1
17.5°	928.4	925.2	924.0	922.4	915.7	912.2	908.4	907.7	900.7	883.9	861.6
20°	968.2	972.6	970.1	968.5	961.8	955.1	952.3	951.3	945.3	926.8	891.2
22.5°	1015.6	1016.5	1017.5	1013.7	1010.5	1005.4	1000.3	998.7	996.5	977.4	933.8
25°	1066.1	1070.0	1066.8	1063.0	1059.1	1058.8	1063.6	1063.0	1062.0	1043.6	990.4
27.5°	1148.5	1152.0	1153.0	1148.8	1134.2	1135.5	1146.3	1149.8	1164.4	1133.9	1063.3
30°	1195.0	1198.5	1206.4	1222.0	1245.2	1265.6	1291.6	1299.6	1313.6	1256.0	1149.8
32.5°	1223.6	1224.9	1239.2	1268.1	1337.8	1413.8	1484.7	1487.6	1496.5	1415.7	1229.0
35°	1268.7	1269.7	1281.1	1313.0	1394.7	1521.3	1631.0	1634.5	1627.2	1465.3	1265.9
37.5°	1324.4	1327.0	1334.3	1360.7	1458.3	1611.3	1691.8	1689.2	1624.3	1504.7	1331.1
40°	1405.5	1405.5	1396.9	1432.5	1525.4	1662.8	1713.1	1708.6	1691.4	1618.9	1430.3
42.5°	1477.1	1475.8	1496.2	1520.3	1609.4	1742.3	1802.5	1809.8	1838.1	1762.4	1543.2
45°	1570.3	1576.0	1587.4	1631.3	1752.2	1878.2	1955.8	1962.8	2002.8	1931.3	1675.2
47.5°	1664.4	1666.3	1702.3	1760.8	1929.0	2062.3	2125.9	2137.4	2173.9	2128.8	1817.4
50°	1731.2	1749.3	1806.9	1899.1	2111.3	2286.9	2336.5	2350.2	2414.7	2343.8	1983.1
52.5°	1801.8	1819.6	1889.9	2030.5	2320.6	2516.5	2577.6	2586.8	2653.9	2561.3	2152.6
55°	1862.2	1878.8	1958.6	2146.9	2487.2	2750.9	2861.6	2850.8	2882.9	2729.0	2283.4
57.5°	1872.1	1885.5	1986.0	2221.3	2612.6	2951.9	3110.6	3117.0	3079.8	2854.3	2391.2
60°	1795.8	1823.1	1938.6	2213.4	2668.9	3091.9	3296.4	3300.8	3195.2	2918.5	2434.1
62.5°	1660.6	1657.7	1797.4	2085.5	2590.0	3123.7	3405.8	3401.0	3240.4	2887.7	2392.5
64°	1473.9	1508.2	1638.7	1928.4	2462.7	3074.7	3417.2	3414.7	3218.8	2823.4	2321.5
65°	1360.0	1358.1	1486.9	1799.9	2336.2	3000.9	3396.9	3393.4	3173.6	2765.9	2266.5
67.5°	981.9	986.3	1113.5	1389.0	1899.1	2712.4	3264.3	3251.2	2995.5	2575.0	2057.2
70°	594.8	597.3	697.2	921.4	1363.2	2192.7	2942.4	2943.0	2722.9	2290.0	1750.9
72.5°	313.3	320.0	360.0	523.2	827.9	1538.5	2387.0	2443.7	2337.7	1954.5	1383.2
75°	174.3	175.3	203.6	257.9	422.4	861.0	1794.2	1810.4	1850.8	1573.1	1022.9
77.5°	132.9	134.9	143.8	166.7	230.0	399.2	1085.9	1167.3	1304.4	1109.1	583.6
80°	107.8	109.7	117.4	131.0	153.0	189.2	504.4	548.3	698.1	492.4	227.7
82.5°	84.0	82.7	92.6	101.5	111.3	112.0	207.1	229.0	284.3	211.8	98.6
85°	62.3	62.3	70.3	68.4	71.9	65.5	91.3	100.8	113.9	90.0	45.8
87.5°	24.8	27.4	46.1	41.3	32.1	25.8	33.7	35.6	39.4	35.3	19.1
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°	765.6	765.6	765.6	765.6	765.6	765.6	765.6	765.6	765.6	765.6	765.6
2.5°	766.8	767.8	765.6	764.0	763.3	762.4	761.4	761.8	763.0	764.3	764.0
5°	770.7	771.0	767.2	765.3	764.0	762.7	762.7	763.7	766.2	768.1	768.1
7.5°	780.2	780.2	774.8	771.3	769.4	767.2	766.5	766.8	768.8	771.3	771.6
10°	795.2	793.9	786.9	781.5	778.0	772.6	767.8	765.3	766.2	767.8	767.8
12.5°	813.3	809.8	800.9	793.6	785.0	774.8	764.9	759.8	759.5	761.1	760.5
15°	832.7	828.9	816.5	803.1	788.2	773.2	761.4	754.1	748.4	746.8	750.3
17.5°	855.3	847.3	830.1	811.7	789.4	770.0	751.6	736.6	726.5	723.6	724.5
20°	882.6	872.1	848.9	820.0	788.5	758.6	730.0	709.9	693.4	688.3	688.9
22.5°	920.5	902.3	868.3	824.1	780.5	736.9	697.2	671.1	651.1	643.1	647.9
25°	963.4	943.7	886.8	823.1	759.8	702.3	658.4	624.4	606.2	594.5	597.0
27.5°	1022.6	987.6	906.5	814.6	730.3	660.0	609.1	577.0	560.4	554.4	557.2
30°	1098.3	1044.5	927.8	791.3	683.5	606.5	559.5	538.5	528.6	521.0	523.5
32.5°	1153.0	1084.6	932.6	752.2	632.9	557.9	525.8	510.2	499.4	492.0	493.6
35°	1192.1	1118.6	930.3	704.2	580.1	517.8	499.0	486.3	468.8	452.9	450.1
37.5°	1244.6	1161.2	914.1	651.7	528.0	490.8	477.4	453.9	428.7	407.4	406.5
40°	1325.0	1211.2	879.4	590.0	483.5	470.7	454.5	424.0	396.9	379.8	378.5
42.5°	1408.1	1257.3	832.4	525.1	446.9	449.7	430.0	399.8	383.3	372.1	370.9
45°	1509.5	1307.2	781.5	468.8	419.8	430.0	408.7	391.2	381.4	374.0	372.1
47.5°	1619.2	1358.4	724.2	418.3	396.9	411.9	399.8	391.9	386.4	381.4	379.1
50°	1737.6	1415.7	670.5	377.5	376.3	393.1	398.8	396.0	392.8	391.2	389.3
52.5°	1867.3	1474.2	625.3	348.9	358.1	379.8	399.2	401.4	401.4	400.4	399.2
55°	1955.1	1514.9	579.5	325.7	339.7	369.0	398.5	407.1	410.3	409.0	407.8
57.5°	2020.0	1537.2	521.9	305.7	324.1	358.5	395.0	407.8	410.9	412.5	411.9
60°	2033.4	1516.5	446.6	284.7	307.2	343.2	382.3	398.2	402.3	412.2	413.2
62.5°	1973.3	1452.9	371.5	264.0	286.6	320.0	365.1	387.4	395.7	410.9	412.5
64°	1899.5	1381.7	329.8	251.0	273.2	306.9	356.5	384.5	395.3	415.7	417.0
65°	1845.4	1329.8	303.7	242.7	264.6	298.3	351.8	385.5	398.2	423.0	424.9
67.5°	1646.3	1151.4	251.3	223.3	244.3	283.7	352.7	393.4	397.6	425.9	425.6
70°	1362.3	916.7	210.6	205.5	224.6	271.9	348.9	380.7	381.0	399.8	395.3
72.5°	1020.0	677.5	182.6	187.0	202.6	244.0	329.5	363.5	358.1	360.7	356.2
75°	700.7	448.1	157.1	167.3	179.7	215.6	302.2	330.1	321.6	318.4	315.2
77.5°	374.0	247.8	130.7	147.9	156.2	186.4	263.7	290.7	281.8	269.4	265.3
80°	151.4	116.7	105.3	122.5	127.2	150.1	219.5	236.3	229.6	208.0	201.0
82.5°	76.0	70.0	82.7	96.4	96.7	107.2	163.2	179.1	164.1	137.7	131.7
85°	39.8	41.0	56.9	67.7	59.8	57.9	98.0	108.5	99.6	86.5	77.9
87.5°	14.3	16.5	29.9	29.6	21.0	11.1	21.6	10.5	5.7	3.5	4.5
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)