

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: P450908

Luminaire Tested: **GALN-SA1D-727-U-T3**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P450908  
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-727-U-T3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 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: 6492 lumens  
Efficiency: N/A  
Efficacy: 99.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2

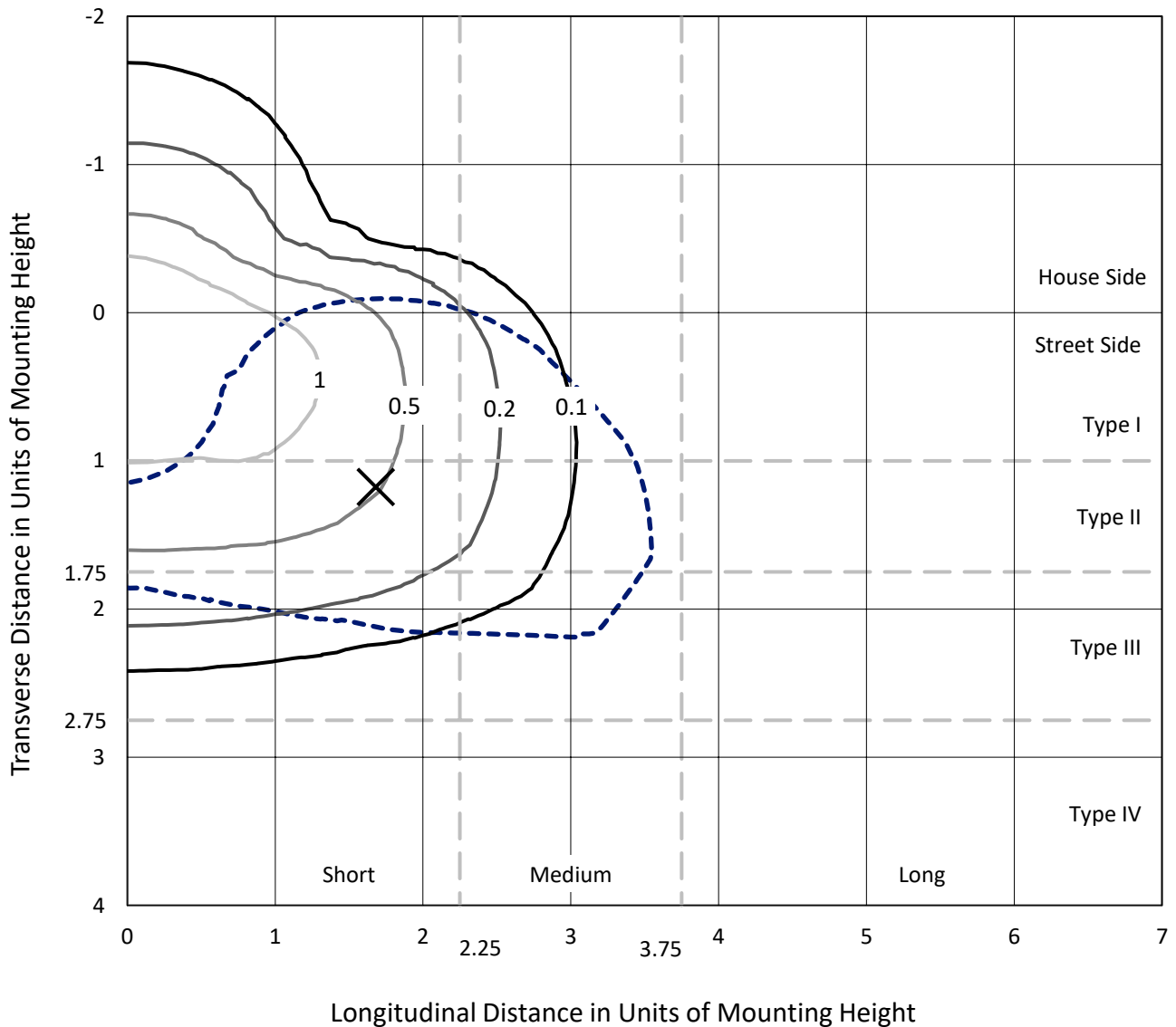
Input Watts (W): 65  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

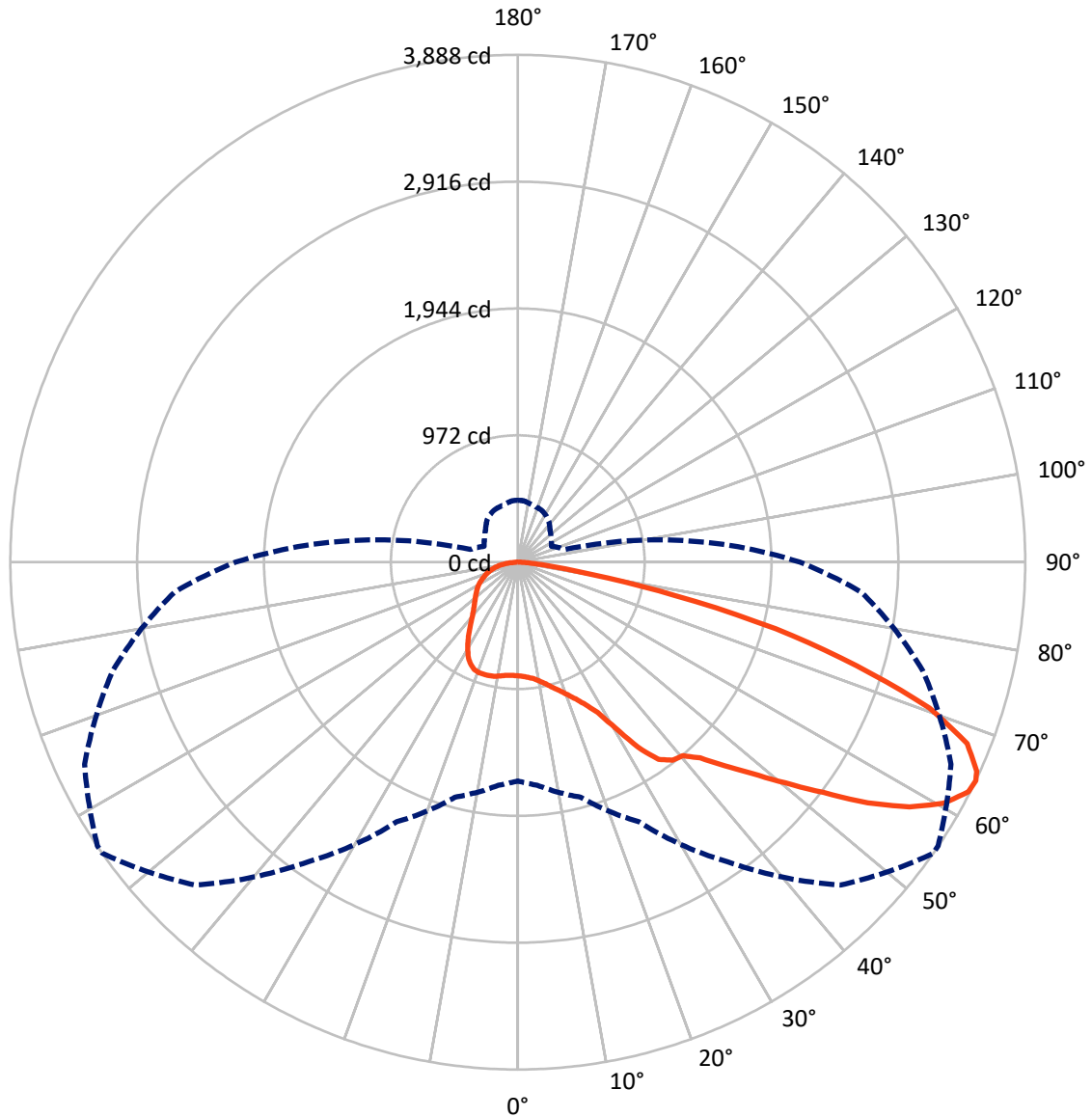
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 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	1577.0	0.0	1577.0
	% Fixture	24.3	0.0	24.3
<b>Street Side</b>	Lumens	4915.0	0.0	4915.0
	% Fixture	75.7	0.0	75.7
<b>Total</b>	Lumens	6492.0	0.0	6492.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	84.7	1.3
10°-20°	267.3	4.1
20°-30°	475.9	7.3
30°-40°	732.3	11.3
40°-50°	1038.1	16.0
50°-60°	1502.6	23.1
60°-70°	1555.0	24.0
70°-80°	728.2	11.2
80°-90°	107.8	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°	6492.0	100.0
0°-180°	6492.0	100.0

**Coefficient of Utilization**



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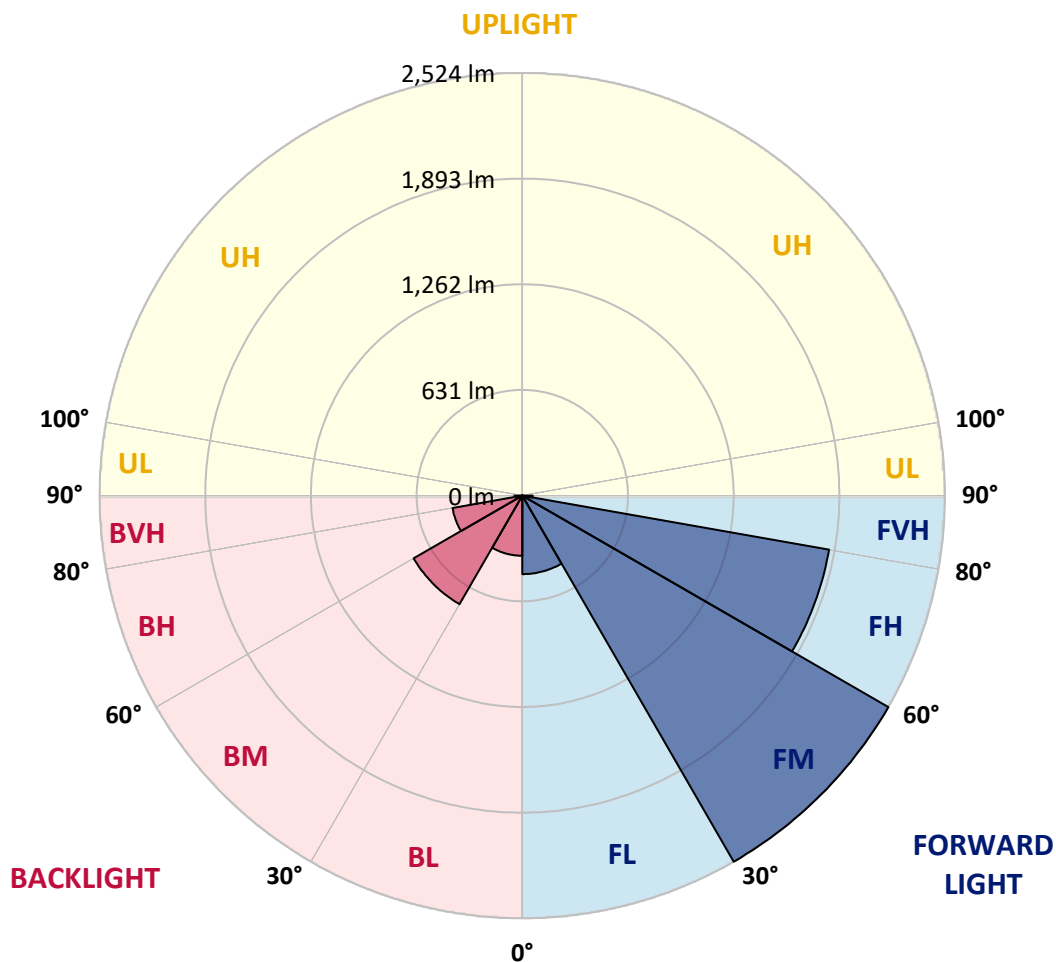
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	468.8	7.2			
FM	(30°-60°)	2524.3	38.9			
FH	(60°-80°)	1860.1	28.7			G2/5000
FVH	(80°-90°)	61.7	1.0			G1/100
BL	(0°-30°)	359.2	5.5	B1/500		
BM	(30°-60°)	748.7	11.5	B1/1000		
BH	(60°-80°)	423.1	6.5	B1/500		G1/500
BVH	(80°-90°)	46.1	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-G2**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	871.0	871.0	871.0	871.0	871.0	871.0	871.0	871.0	871.0	871.0	871.0
2.5°	880.8	880.4	881.5	880.4	881.2	878.6	877.5	878.3	877.2	875.4	872.1
5°	891.7	891.3	891.7	890.2	890.9	889.5	887.0	887.7	885.9	881.9	877.2
7.5°	910.1	908.7	908.7	908.3	906.9	904.7	902.9	902.2	900.3	895.3	888.0
10°	934.0	934.0	934.4	931.5	933.3	929.3	927.5	927.1	921.0	914.5	904.3
12.5°	965.5	967.3	966.2	964.8	964.0	962.6	956.4	957.9	951.0	939.8	927.5
15°	1004.6	1007.5	1005.6	1004.9	1003.1	997.7	995.2	994.1	985.0	968.7	952.5
17.5°	1056.3	1052.7	1051.2	1049.4	1041.8	1037.9	1033.5	1032.8	1024.8	1005.6	980.3
20°	1101.5	1106.6	1103.7	1101.9	1094.3	1086.7	1083.5	1082.4	1075.5	1054.5	1014.0
22.5°	1155.5	1156.5	1157.6	1153.3	1149.7	1143.9	1138.1	1136.3	1133.8	1112.0	1062.5
25°	1213.0	1217.3	1213.7	1209.4	1205.0	1204.7	1210.1	1209.4	1208.3	1187.3	1126.9
27.5°	1306.7	1310.7	1311.8	1307.1	1290.4	1291.9	1304.2	1308.2	1324.8	1290.1	1209.7
30°	1359.6	1363.5	1372.6	1390.3	1416.7	1439.9	1469.6	1478.6	1494.5	1429.0	1308.2
32.5°	1392.1	1393.6	1409.9	1442.8	1522.0	1608.5	1689.2	1692.5	1702.6	1610.7	1398.3
35°	1443.5	1444.6	1457.6	1493.8	1586.8	1730.8	1855.7	1859.7	1851.3	1667.2	1440.3
37.5°	1506.8	1509.7	1518.1	1548.1	1659.2	1833.3	1924.8	1921.9	1848.1	1712.0	1514.4
40°	1599.1	1599.1	1589.4	1629.9	1735.5	1891.9	1949.1	1944.0	1924.4	1841.9	1627.3
42.5°	1680.5	1679.1	1702.3	1729.8	1831.1	1982.3	2050.7	2059.1	2091.3	2005.1	1755.8
45°	1786.6	1793.1	1806.1	1856.1	1993.6	2136.9	2225.2	2233.1	2278.7	2197.3	1906.0
47.5°	1893.7	1895.9	1936.7	2003.3	2194.8	2346.4	2418.8	2431.8	2473.4	2422.0	2067.7
50°	1969.7	1990.3	2055.8	2160.7	2402.1	2601.9	2658.3	2673.9	2747.3	2666.6	2256.3
52.5°	2050.0	2070.3	2150.3	2310.2	2640.2	2863.1	2932.6	2943.1	3019.5	2914.2	2449.2
55°	2118.8	2137.6	2228.4	2442.6	2829.9	3129.8	3255.8	3243.5	3280.0	3104.9	2597.9
57.5°	2130.0	2145.2	2259.5	2527.3	2972.4	3358.6	3539.1	3546.4	3504.0	3247.5	2720.6
60°	2043.1	2074.3	2205.6	2518.3	3036.5	3517.8	3750.5	3755.5	3635.4	3320.6	2769.4
62.5°	1889.3	1886.1	2044.9	2372.8	2946.7	3554.0	3874.9	3869.5	3686.8	3285.5	2722.0
64°	1676.9	1716.0	1864.4	2194.0	2802.0	3498.2	3888.0	3885.1	3662.2	3212.4	2641.3
65°	1547.4	1545.2	1691.8	2047.8	2658.0	3414.3	3864.8	3860.8	3610.8	3146.9	2578.7
67.5°	1117.1	1122.2	1266.9	1580.3	2160.7	3086.1	3713.9	3699.1	3408.1	2929.7	2340.6
70°	676.7	679.6	793.2	1048.3	1551.0	2494.8	3347.7	3348.4	3098.0	2605.5	1992.1
72.5°	356.4	364.0	409.6	595.3	942.0	1750.4	2715.9	2780.3	2659.8	2223.7	1573.8
75°	198.3	199.4	231.6	293.5	480.6	979.6	2041.3	2059.8	2105.7	1789.8	1163.8
77.5°	151.3	153.4	163.6	189.6	261.6	454.2	1235.4	1328.1	1484.0	1261.9	664.0
80°	122.7	124.8	133.5	149.1	174.1	215.3	573.9	623.9	794.3	560.2	259.1
82.5°	95.5	94.1	105.3	115.4	126.7	127.4	235.6	260.5	323.5	241.0	112.2
85°	70.9	70.9	80.0	77.8	81.8	74.5	103.9	114.7	129.6	102.4	52.1
87.5°	28.2	31.1	52.5	47.0	36.5	29.3	38.4	40.5	44.9	40.2	21.7
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°	871.0	871.0	871.0	871.0	871.0	871.0	871.0	871.0	871.0	871.0	871.0
2.5°	872.5	873.6	871.0	869.2	868.5	867.4	866.3	866.7	868.1	869.6	869.2
5°	876.8	877.2	872.8	870.7	869.2	867.8	867.8	868.9	871.8	873.9	873.9
7.5°	887.7	887.7	881.5	877.5	875.4	872.8	872.1	872.5	874.6	877.5	877.9
10°	904.7	903.2	895.3	889.1	885.1	879.0	873.6	870.7	871.8	873.6	873.6
12.5°	925.3	921.3	911.2	902.9	893.1	881.5	870.3	864.5	864.2	866.0	865.2
15°	947.4	943.0	928.9	913.7	896.7	879.7	866.3	858.0	851.5	849.7	853.7
17.5°	973.1	964.0	944.5	923.5	898.2	876.1	855.1	838.1	826.5	823.3	824.3
20°	1004.2	992.3	965.8	932.9	897.1	863.1	830.5	807.7	788.9	783.1	783.8
22.5°	1047.3	1026.6	987.9	937.6	888.0	838.5	793.2	763.6	740.8	731.7	737.1
25°	1096.1	1073.7	1008.9	936.5	864.5	799.0	749.1	710.4	689.7	676.3	679.2
27.5°	1163.4	1123.6	1031.3	926.8	830.9	750.9	693.0	656.4	637.6	630.7	634.0
30°	1249.6	1188.4	1055.6	900.3	777.7	690.1	636.5	612.7	601.4	592.7	595.6
32.5°	1311.8	1234.0	1061.0	855.8	720.1	634.7	598.2	580.4	568.1	559.8	561.6
35°	1356.3	1272.7	1058.5	801.2	660.1	589.1	567.8	553.3	533.4	515.3	512.1
37.5°	1416.0	1321.2	1040.0	741.5	600.7	558.4	543.2	516.4	487.8	463.6	462.5
40°	1507.6	1378.0	1000.6	671.3	550.0	535.6	517.1	482.4	451.6	432.1	430.6
42.5°	1602.0	1430.5	947.0	597.5	508.4	511.7	489.3	454.9	436.1	423.4	421.9
45°	1717.5	1487.3	889.1	533.4	477.7	489.3	465.0	445.1	433.9	425.6	423.4
47.5°	1842.3	1545.6	824.0	475.9	451.6	468.6	454.9	445.8	439.7	433.9	431.4
50°	1976.9	1610.7	762.8	429.5	428.1	447.3	453.8	450.5	446.9	445.1	442.9
52.5°	2124.6	1677.3	711.4	397.0	407.5	432.1	454.2	456.7	456.7	455.6	454.2
55°	2224.4	1723.6	659.3	370.6	386.5	419.8	453.4	463.2	466.8	465.4	463.9
57.5°	2298.3	1748.9	593.8	347.8	368.7	407.8	449.4	463.9	467.5	469.4	468.6
60°	2313.5	1725.4	508.1	323.9	349.6	390.5	435.0	453.1	457.8	469.0	470.1
62.5°	2245.1	1653.0	422.7	300.4	326.0	364.0	415.4	440.8	450.2	467.5	469.4
64°	2161.1	1572.0	375.3	285.5	310.8	349.2	405.7	437.5	449.8	473.0	474.4
65°	2099.6	1513.0	345.6	276.1	301.1	339.4	400.2	438.6	453.1	481.3	483.5
67.5°	1873.1	1310.0	285.9	254.0	277.9	322.8	401.3	447.6	452.3	484.5	484.2
70°	1549.9	1042.9	239.6	233.8	255.5	309.4	397.0	433.2	433.5	454.9	449.8
72.5°	1160.5	770.8	207.7	212.8	230.5	277.6	374.9	413.6	407.5	410.4	405.3
75°	797.2	509.9	178.8	190.3	204.5	245.4	343.8	375.6	365.9	362.2	358.6
77.5°	425.6	281.9	148.7	168.3	177.7	212.1	300.0	330.8	320.6	306.5	301.8
80°	172.3	132.8	119.8	139.3	144.7	170.8	249.7	268.9	261.3	236.7	228.7
82.5°	86.5	79.6	94.1	109.6	110.0	122.0	185.6	203.7	186.7	156.7	149.8
85°	45.2	46.7	64.8	77.1	68.0	65.9	111.5	123.4	113.3	98.4	88.7
87.5°	16.3	18.8	34.0	33.7	23.9	12.7	24.6	11.9	6.5	4.0	5.1
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)