

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: P527148

Luminaire Tested: **GALN-SA2A-827-U-T2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527148
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-14)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2A-827-U-T2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5671 lumens
Efficiency: N/A
Efficacy: 90.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

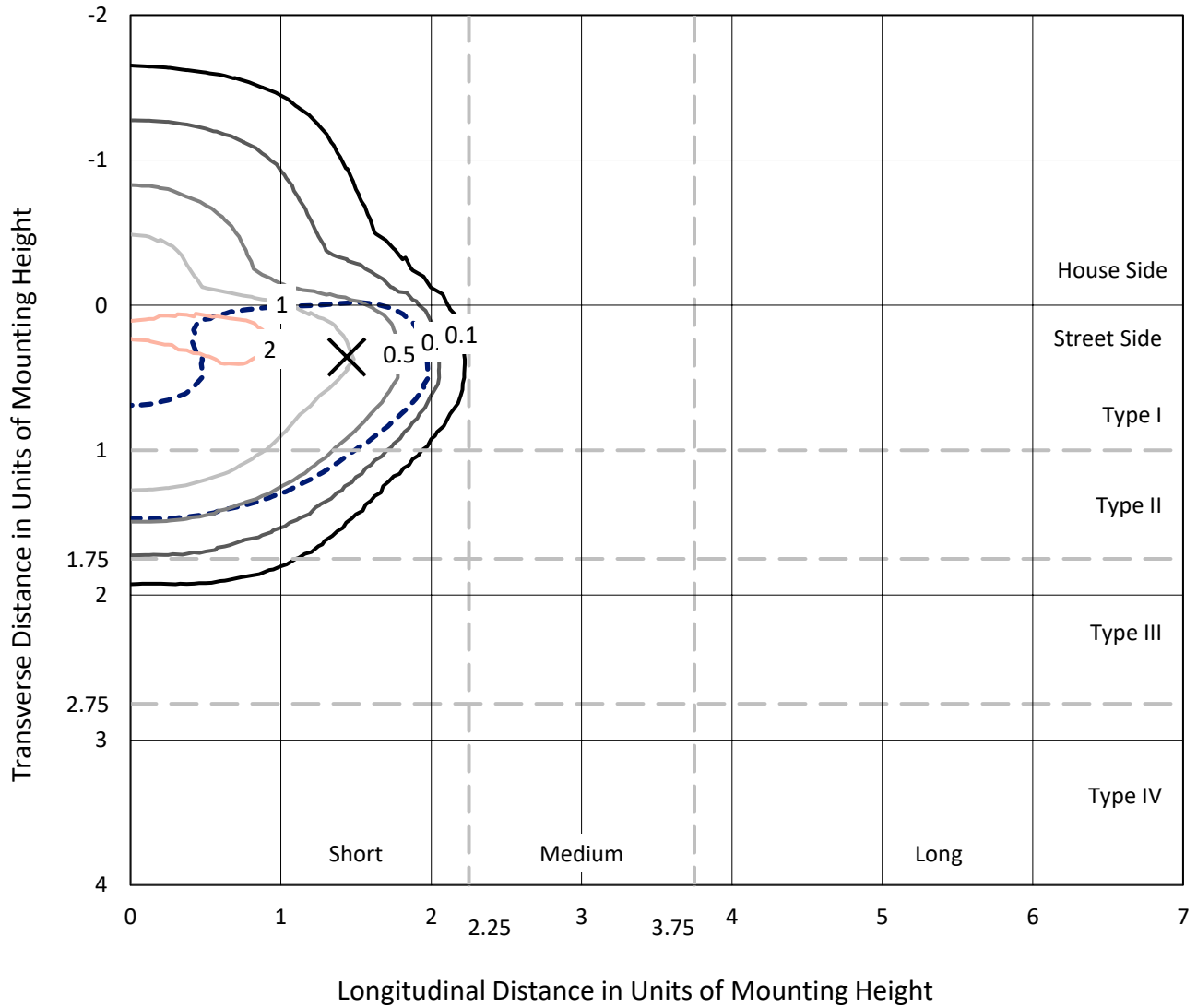
Input Watts (W): 63
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

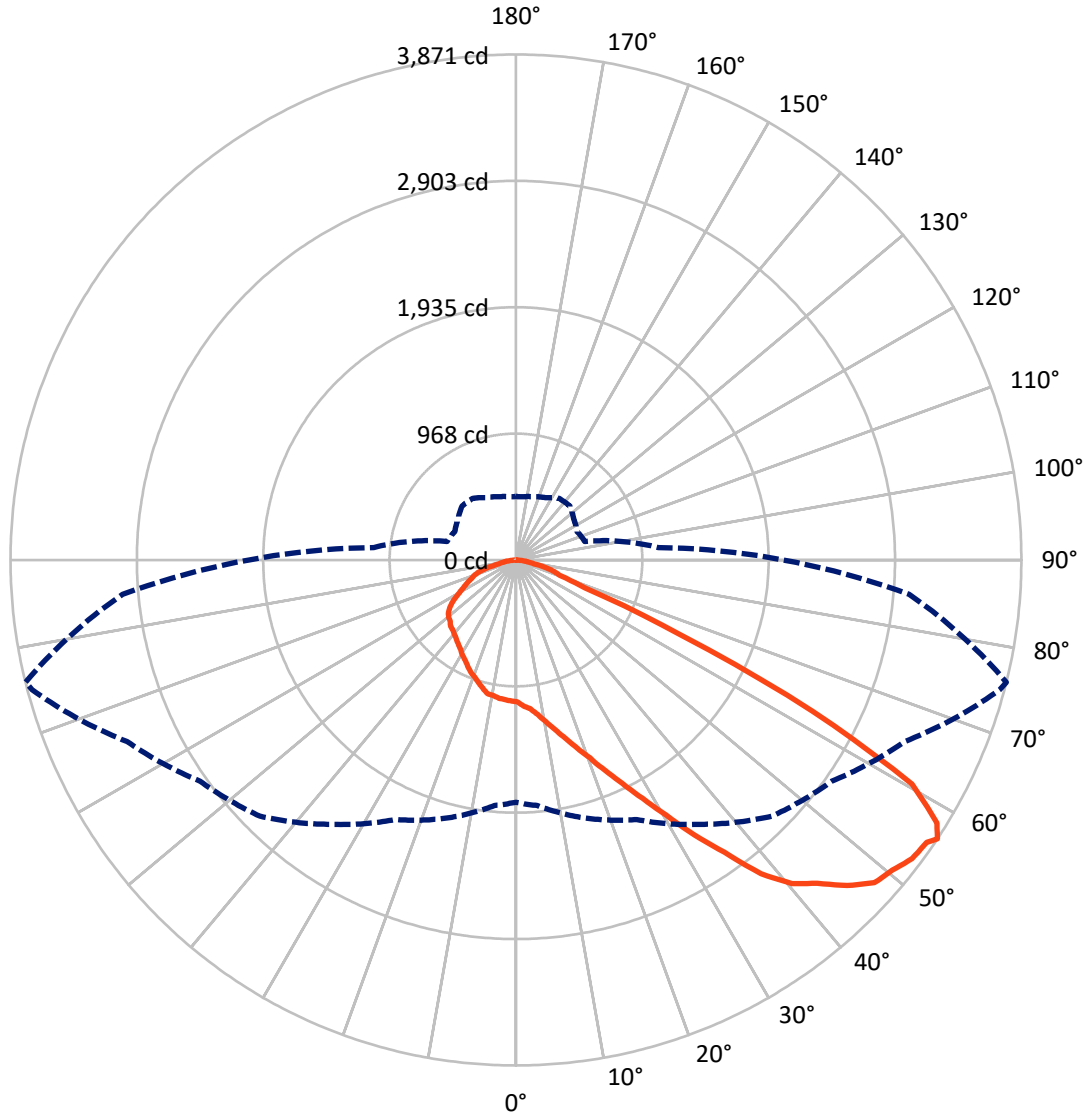
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1524.8	0.0	1524.8
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	4146.2	0.0	4146.2
	% Fixture	73.1	0.0	73.1
Total	Lumens	5671.0	0.0	5671.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.6	1.9
10°-20°	338.0	6.0
20°-30°	591.2	10.4
30°-40°	925.6	16.3
40°-50°	1346.5	23.7
50°-60°	1479.9	26.1
60°-70°	660.5	11.6
70°-80°	190.8	3.4
80°-90°	31.0	0.5
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°	5671.0	100.0
0°-180°	5671.0	100.0

Coefficient of Utilization



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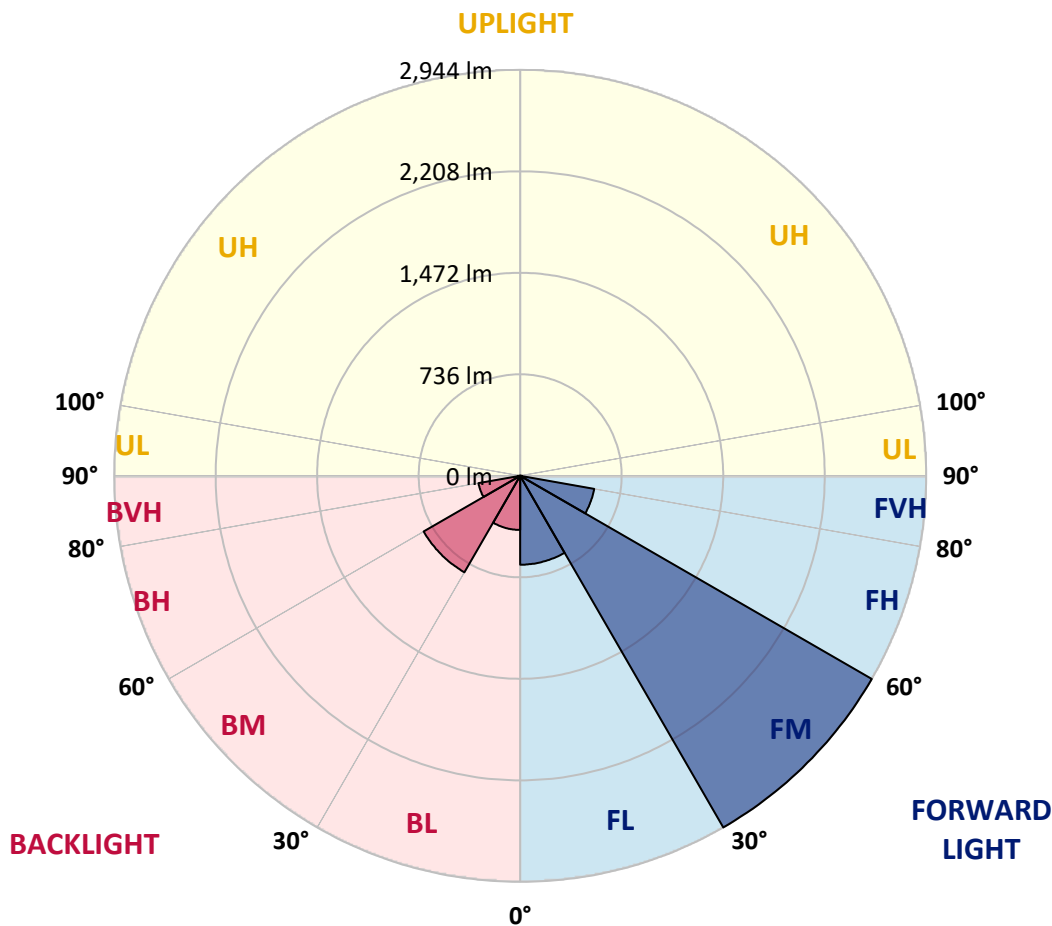
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	644.4	11.4			
FM (30°-60°)	2943.9	51.9			
FH (60°-80°)	544.5	9.6			G0/660
FVH (80°-90°)	13.3	0.2			G1/100
BL (0°-30°)	392.3	6.9	B1/500		
BM (30°-60°)	808.0	14.2	B1/1000		
BH (60°-80°)	306.8	5.4	B1/500		G1/500
BVH (80°-90°)	17.6	0.3			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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1085.1	1085.1	1085.1	1085.1	1085.1	1085.1	1085.1	1085.1	1085.1	1085.1	1085.1
2.5°	1195.3	1176.2	1174.8	1169.6	1172.6	1159.3	1145.4	1127.0	1107.9	1119.6	1091.7
5°	1279.2	1253.4	1263.7	1246.1	1248.3	1230.6	1202.0	1180.6	1157.1	1143.1	1123.3
7.5°	1308.6	1310.8	1318.1	1315.2	1300.5	1300.5	1281.4	1243.9	1202.7	1194.6	1161.5
10°	1348.3	1349.0	1340.9	1343.1	1363.7	1354.1	1337.2	1321.1	1268.1	1258.6	1199.8
12.5°	1362.2	1349.0	1362.2	1374.0	1398.2	1411.5	1407.8	1396.0	1339.4	1332.8	1246.8
15°	1364.4	1356.3	1367.4	1393.8	1415.2	1471.0	1499.0	1490.9	1415.9	1416.6	1299.7
17.5°	1354.1	1365.2	1369.6	1392.4	1441.6	1493.8	1574.7	1585.7	1524.0	1514.4	1366.6
20°	1368.1	1360.0	1365.9	1386.5	1451.9	1533.5	1639.4	1712.2	1625.4	1618.8	1435.7
22.5°	1421.8	1410.7	1409.3	1422.5	1469.6	1554.1	1707.7	1838.6	1748.9	1752.6	1521.7
25°	1463.7	1469.6	1464.4	1463.7	1493.1	1585.0	1798.2	1989.3	1916.5	1895.2	1623.2
27.5°	1535.7	1549.7	1539.4	1553.4	1546.7	1631.3	1862.9	2156.2	2097.4	2068.7	1715.1
30°	1635.7	1643.0	1633.5	1633.5	1613.6	1696.0	1921.7	2330.4	2306.1	2267.2	1823.2
32.5°	1767.3	1778.3	1759.2	1748.2	1745.2	1792.3	2027.5	2502.4	2543.6	2510.5	1966.5
35°	1941.5	1934.9	1912.1	1901.8	1862.1	1940.0	2184.8	2700.2	2808.3	2749.4	2140.0
37.5°	2095.2	2084.9	2083.4	2026.1	2035.6	2099.6	2318.6	2850.2	3064.8	3047.9	2323.1
40°	2238.5	2248.1	2263.5	2231.2	2216.5	2287.0	2474.5	2964.8	3264.0	3257.4	2464.2
42.5°	2392.2	2383.3	2410.5	2383.3	2361.3	2461.3	2643.6	3044.2	3439.0	3384.6	2612.0
45°	2614.9	2587.0	2596.5	2598.7	2582.6	2619.3	2713.4	3101.6	3561.8	3555.9	2720.0
47.5°	2800.9	2801.6	2785.5	2773.0	2723.7	2760.5	2791.3	3137.6	3702.9	3693.4	2761.9
50°	2870.0	2860.4	2907.5	2934.7	2937.6	2862.7	2852.4	3157.4	3777.2	3735.3	2803.8
52.5°	2621.5	2630.3	2704.6	2866.3	2959.7	2967.8	2923.7	3198.6	3807.3	3798.5	2837.7
55°	2109.9	2152.5	2274.5	2461.3	2682.5	2925.9	3000.9	3241.3	3823.5	3816.1	2987.6
56°	1854.8	1887.9	2046.6	2192.9	2470.8	2773.7	2952.3	3286.8	3836.0	3870.5	3022.9
57.5°	1493.1	1531.3	1645.3	1811.4	2139.3	2484.1	2818.5	3231.0	3787.5	3800.7	3048.6
60°	933.6	937.3	1074.0	1183.6	1414.4	1751.1	2151.0	2811.2	3505.2	3486.1	2738.4
62.5°	612.4	613.1	737.3	827.0	932.2	1009.4	1265.9	1864.3	2586.2	2552.4	1949.6
65°	430.1	439.6	535.9	655.7	698.4	658.0	649.9	982.9	1444.6	1396.0	1047.6
67.5°	314.6	315.4	400.7	529.3	591.1	500.6	406.5	480.0	571.9	570.5	485.2
70°	208.0	216.9	282.3	395.5	466.1	402.1	332.3	343.3	363.9	363.9	361.0
72.5°	121.3	129.4	172.8	250.7	261.7	251.4	263.2	294.1	307.3	306.6	302.9
75°	69.1	72.8	82.3	104.4	130.1	153.6	193.3	222.7	236.0	244.1	234.5
77.5°	40.4	42.6	48.5	59.5	67.6	83.1	105.1	125.7	143.4	141.1	142.6
80°	21.3	21.3	27.2	35.3	47.0	58.8	69.8	81.6	91.2	93.4	95.6
82.5°	12.5	13.2	17.6	25.7	33.8	41.9	53.7	61.8	70.6	71.3	72.8
85°	6.6	7.4	11.0	16.9	22.8	25.7	26.5	25.0	27.2	25.7	29.4
87.5°	2.2	2.2	3.7	2.9	2.9	3.7	4.4	4.4	5.9	5.9	5.9
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°	1085.1	1085.1	1085.1	1085.1	1085.1	1085.1	1085.1	1085.1	1085.1	1085.1	1085.1
2.5°	1091.0	1091.0	1078.5	1054.9	1051.3	1041.7	1032.9	1032.1	1025.5	1019.6	1016.7
5°	1111.5	1088.7	1070.4	1049.1	1024.1	1012.3	999.1	984.4	978.5	984.4	983.6
7.5°	1135.1	1115.9	1060.8	1021.1	992.4	980.7	966.0	950.5	952.0	952.0	941.7
10°	1157.9	1132.1	1043.9	993.2	951.3	942.5	934.4	940.2	947.6	949.1	942.5
12.5°	1196.1	1138.0	1035.8	965.2	938.8	919.7	924.8	941.0	956.4	952.0	957.2
15°	1224.8	1143.1	999.1	936.6	903.5	912.3	930.7	941.7	967.4	964.5	969.7
17.5°	1252.7	1146.1	963.0	898.3	884.4	908.6	922.6	954.2	962.3	979.9	986.6
20°	1310.0	1152.0	926.3	874.8	870.4	898.3	922.6	937.3	955.0	970.4	970.4
22.5°	1339.4	1149.0	902.0	843.9	857.9	875.6	897.6	922.6	922.6	937.3	938.0
25°	1376.2	1137.3	863.8	829.2	839.5	856.4	881.4	872.6	882.2	882.2	893.9
27.5°	1418.1	1112.3	830.7	802.8	823.4	841.7	845.4	839.5	828.5	827.0	822.6
30°	1451.9	1081.4	806.5	794.0	810.9	821.2	809.4	796.9	777.8	776.3	766.0
32.5°	1498.2	1043.2	776.3	771.9	791.0	791.8	788.1	769.0	741.0	729.3	717.5
35°	1576.1	1021.1	753.5	760.1	766.0	763.8	757.2	736.6	708.7	703.5	699.1
37.5°	1633.5	1004.9	730.0	738.1	743.2	746.2	726.3	703.5	704.3	694.0	691.0
40°	1698.2	994.7	710.9	714.6	715.3	724.9	700.6	689.6	694.7	688.1	692.5
42.5°	1781.3	997.6	691.0	688.1	702.1	698.4	686.6	671.9	674.9	655.0	658.0
45°	1825.4	1017.4	679.3	666.0	681.5	680.7	665.3	651.3	633.7	595.5	596.9
47.5°	1854.8	1022.6	651.3	642.5	658.7	668.2	650.6	618.3	593.3	566.1	559.4
50°	1884.9	1032.1	638.1	619.7	626.3	649.1	627.1	596.2	571.9	547.7	551.4
52.5°	1911.4	1050.5	612.4	585.2	596.9	621.9	610.2	572.7	546.2	526.4	520.5
55°	2029.0	1091.7	569.0	533.7	561.7	593.3	586.6	541.1	512.4	502.1	500.6
56°	2047.4	1093.2	546.2	516.1	541.8	583.7	575.6	527.1	501.4	485.2	485.9
57.5°	2050.3	1075.5	513.9	499.9	522.0	569.7	559.4	516.1	480.8	466.1	461.7
60°	1804.0	839.5	473.4	464.6	490.3	527.1	523.4	485.9	446.2	429.3	437.4
62.5°	1229.9	615.3	441.8	440.4	453.6	489.6	480.0	446.2	413.2	402.1	397.0
65°	716.0	466.8	410.9	405.1	416.1	435.2	441.8	406.5	372.0	364.6	362.4
67.5°	422.7	386.0	371.2	361.7	358.0	369.8	374.9	354.3	319.8	309.5	318.3
70°	353.6	343.3	344.0	327.9	319.1	311.0	306.6	288.2	259.5	246.3	242.6
72.5°	305.1	300.7	297.7	283.0	274.9	256.6	237.5	219.1	197.8	186.7	187.5
75°	233.0	231.6	233.0	225.7	211.7	197.0	179.4	155.9	139.7	125.7	128.7
77.5°	138.9	143.4	145.6	142.6	136.7	123.5	112.5	97.0	81.6	70.6	69.1
80°	95.6	99.2	102.9	99.2	93.4	83.8	72.0	60.3	49.3	43.4	41.9
82.5°	72.8	76.5	78.7	75.0	67.6	57.3	49.3	41.2	32.3	26.5	25.0
85°	26.5	30.1	29.4	35.3	38.2	36.8	31.6	24.3	18.4	13.2	12.5
87.5°	7.4	6.6	7.4	7.4	7.4	6.6	5.9	5.9	5.9	3.7	2.9
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)