

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: P526758

Luminaire Tested: **GALN-SA1D-727-U-T2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526758
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-SA1D-727-U-T2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE II OPTICS
WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5491 lumens
Efficiency: N/A
Efficacy: 84.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

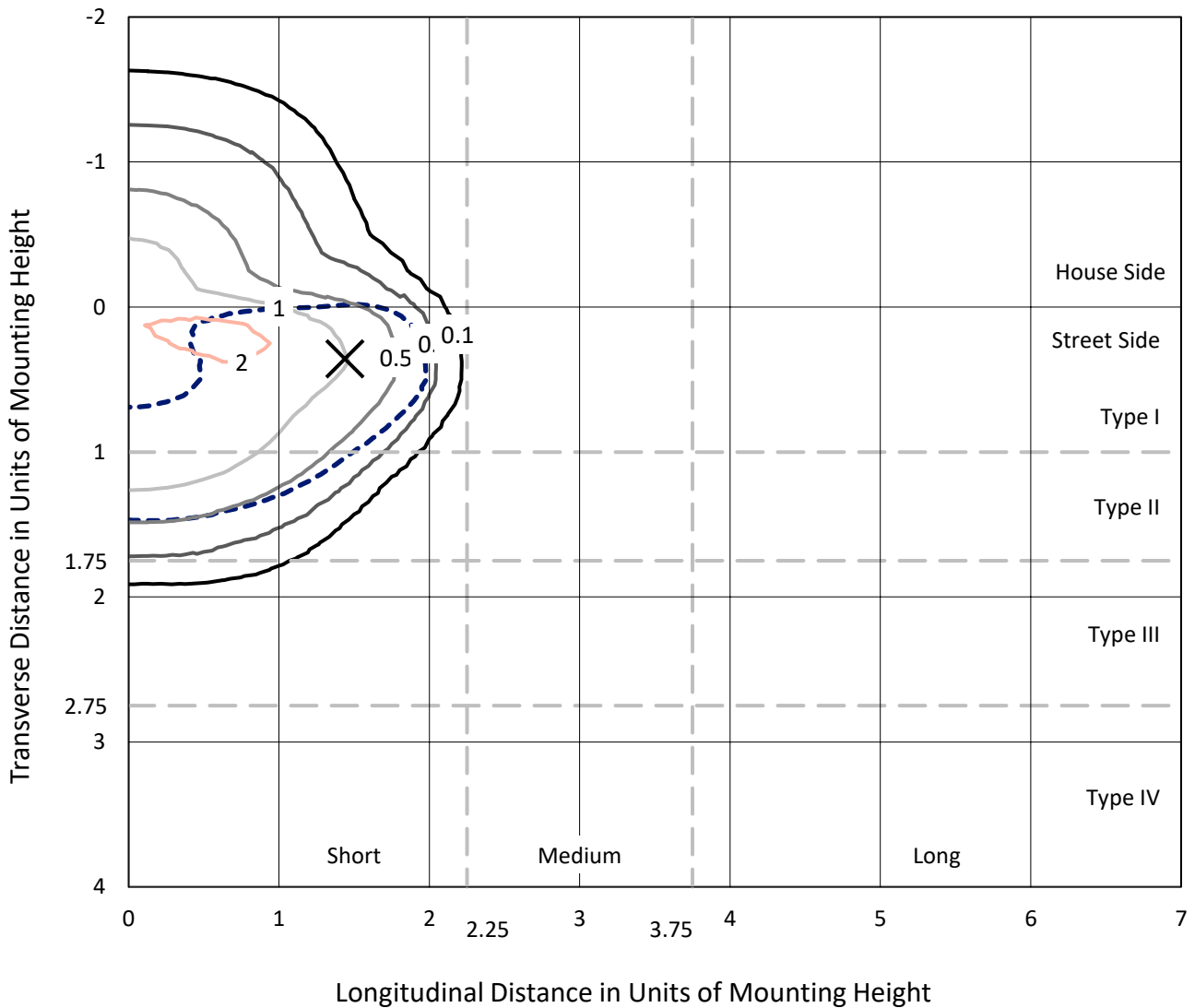
Input Watts (W): 65
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

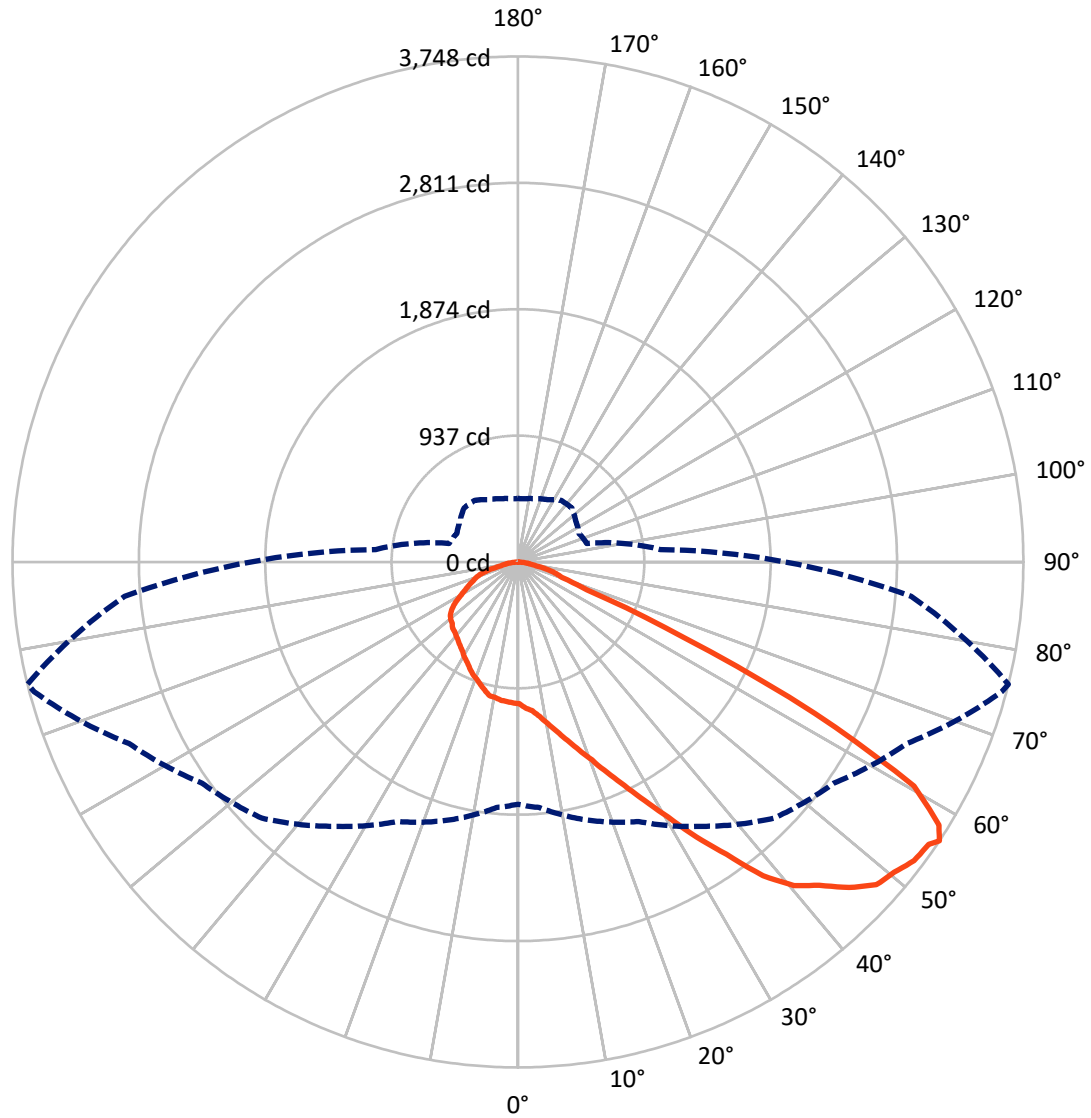
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 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	1476.4	0.0	1476.4
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	4014.6	0.0	4014.6
	% Fixture	73.1	0.0	73.1
Total	Lumens	5491.0	0.0	5491.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.2	1.9
10°-20°	327.3	6.0
20°-30°	572.4	10.4
30°-40°	896.2	16.3
40°-50°	1303.7	23.7
50°-60°	1432.9	26.1
60°-70°	639.6	11.6
70°-80°	184.7	3.4
80°-90°	30.0	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°	5491.0	100.0
0°-180°	5491.0	100.0

Coefficient of Utilization



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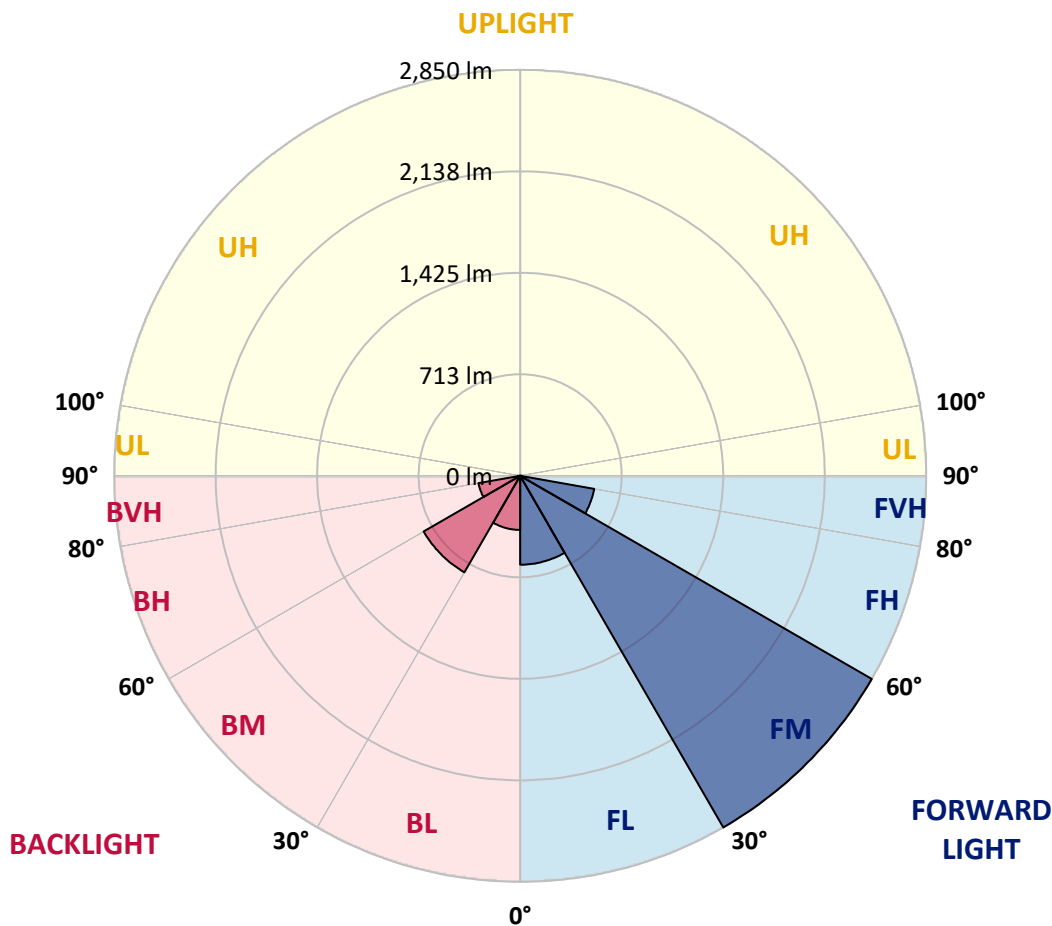
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	624.0	11.4			
FM (30°-60°)	2850.5	51.9			
FH (60°-80°)	527.3	9.6			G0/660
FVH (80°-90°)	12.9	0.2			G1/100
BL (0°-30°)	379.9	6.9	B1/500		
BM (30°-60°)	782.4	14.2	B1/1000		
BH (60°-80°)	297.0	5.4	B1/500		G1/500
BVH (80°-90°)	17.1	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°	1050.6	1050.6	1050.6	1050.6	1050.6	1050.6	1050.6	1050.6	1050.6	1050.6	1050.6
2.5°	1157.4	1138.9	1137.5	1132.5	1135.3	1122.5	1109.0	1091.2	1072.7	1084.1	1057.0
5°	1238.6	1213.6	1223.6	1206.5	1208.7	1191.6	1163.8	1143.2	1120.4	1106.9	1087.6
7.5°	1267.0	1269.2	1276.3	1273.4	1259.2	1259.2	1240.7	1204.4	1164.5	1156.7	1124.7
10°	1305.5	1306.2	1298.3	1300.5	1320.4	1311.2	1294.8	1279.1	1227.9	1218.6	1161.7
12.5°	1319.0	1306.2	1319.0	1330.4	1353.9	1366.7	1363.1	1351.7	1296.9	1290.5	1207.2
15°	1321.1	1313.3	1324.0	1349.6	1370.2	1424.3	1451.4	1443.6	1370.9	1371.7	1258.5
17.5°	1311.2	1321.8	1326.1	1348.2	1395.9	1446.4	1524.7	1535.4	1475.6	1466.3	1323.3
20°	1324.7	1316.8	1322.5	1342.5	1405.8	1484.8	1587.3	1657.8	1573.8	1567.4	1390.2
22.5°	1376.6	1366.0	1364.5	1377.4	1422.9	1504.8	1653.5	1780.2	1693.4	1697.0	1473.4
25°	1417.2	1422.9	1417.9	1417.2	1445.7	1534.7	1741.1	1926.2	1855.7	1835.0	1571.7
27.5°	1487.0	1500.5	1490.5	1504.1	1497.6	1579.5	1803.7	2087.7	2030.8	2003.0	1660.7
30°	1583.8	1590.9	1581.6	1581.6	1562.4	1642.1	1860.7	2256.4	2232.9	2195.2	1765.3
32.5°	1711.2	1721.9	1703.4	1692.7	1689.8	1735.4	1963.2	2423.0	2462.9	2430.8	1904.1
35°	1879.9	1873.5	1851.4	1841.5	1803.0	1878.5	2115.5	2614.5	2719.1	2662.2	2072.1
37.5°	2028.7	2018.7	2017.3	1961.7	1971.0	2032.9	2245.1	2759.7	2967.5	2951.2	2249.3
40°	2167.5	2176.7	2191.7	2160.3	2146.1	2214.4	2396.0	2870.7	3160.4	3154.0	2386.0
42.5°	2316.2	2307.7	2334.0	2307.7	2286.3	2383.1	2559.7	2947.6	3329.8	3277.2	2529.1
45°	2531.9	2504.9	2514.1	2516.3	2500.6	2536.2	2627.3	3003.1	3448.7	3443.0	2633.7
47.5°	2712.0	2712.7	2697.1	2684.9	2637.3	2672.8	2702.7	3038.0	3585.4	3576.1	2674.3
50°	2778.9	2769.7	2815.2	2841.5	2844.4	2771.8	2761.8	3057.2	3657.3	3616.7	2714.8
52.5°	2538.3	2546.9	2618.8	2775.3	2865.7	2873.6	2830.9	3097.1	3686.5	3677.9	2747.6
55°	2042.9	2084.2	2202.3	2383.1	2597.4	2833.0	2905.6	3138.4	3702.1	3695.0	2892.8
56°	1795.9	1827.9	1981.7	2123.3	2392.4	2685.7	2858.6	3182.5	3714.2	3747.7	2927.0
57.5°	1445.7	1482.7	1593.0	1753.9	2071.4	2405.2	2729.1	3128.4	3667.2	3680.1	2951.9
60°	904.0	907.6	1040.0	1146.0	1369.5	1695.5	2082.8	2722.0	3393.9	3375.4	2651.5
62.5°	592.9	593.6	713.9	800.8	902.6	977.3	1225.7	1805.2	2504.1	2471.4	1887.7
65°	416.4	425.7	518.9	634.9	676.2	637.1	629.2	951.7	1398.7	1351.7	1014.3
67.5°	304.7	305.4	387.9	512.5	572.3	484.7	393.6	464.8	553.8	552.4	469.8
70°	201.4	210.0	273.3	383.0	451.3	389.4	321.7	332.4	352.3	352.3	349.5
72.5°	117.4	125.3	167.3	242.7	253.4	243.4	254.8	284.7	297.5	296.8	293.3
75°	66.9	70.5	79.7	101.1	126.0	148.8	187.2	215.7	228.5	236.3	227.1
77.5°	39.1	41.3	47.0	57.7	65.5	80.4	101.8	121.7	138.8	136.7	138.1
80°	20.6	20.6	26.3	34.2	45.6	56.9	67.6	79.0	88.3	90.4	92.5
82.5°	12.1	12.8	17.1	24.9	32.7	40.6	52.0	59.8	68.3	69.0	70.5
85°	6.4	7.1	10.7	16.4	22.1	24.9	25.6	24.2	26.3	24.9	28.5
87.5°	2.1	2.1	3.6	2.8	2.8	3.6	4.3	4.3	5.7	5.7	5.7
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°	1050.6	1050.6	1050.6	1050.6	1050.6	1050.6	1050.6	1050.6	1050.6	1050.6	1050.6
2.5°	1056.3	1056.3	1044.2	1021.4	1017.9	1008.6	1000.1	999.4	993.0	987.3	984.4
5°	1076.3	1054.2	1036.4	1015.8	991.6	980.2	967.4	953.1	947.4	953.1	952.4
7.5°	1099.0	1080.5	1027.1	988.7	960.9	949.6	935.3	920.4	921.8	921.8	911.8
10°	1121.1	1096.2	1010.8	961.7	921.1	912.5	904.7	910.4	917.5	918.9	912.5
12.5°	1158.1	1101.9	1002.9	934.6	909.0	890.5	895.5	911.1	926.1	921.8	926.8
15°	1185.9	1106.9	967.4	906.8	874.8	883.4	901.2	911.8	936.7	933.9	938.9
17.5°	1212.9	1109.7	932.5	869.8	856.3	879.8	893.3	923.9	931.8	948.8	955.2
20°	1268.4	1115.4	896.9	847.1	842.8	869.8	893.3	907.6	924.6	939.6	939.6
22.5°	1296.9	1112.6	873.4	817.2	830.7	847.8	869.1	893.3	893.3	907.6	908.3
25°	1332.5	1101.2	836.4	802.9	812.9	829.3	853.5	844.9	854.2	854.2	865.6
27.5°	1373.1	1077.0	804.3	777.3	797.2	815.0	818.6	812.9	802.2	800.8	796.5
30°	1405.8	1047.1	780.9	768.8	785.1	795.1	783.7	771.6	753.1	751.7	741.7
32.5°	1450.7	1010.1	751.7	747.4	765.9	766.6	763.1	744.6	717.5	706.1	694.7
35°	1526.1	988.7	729.6	736.0	741.7	739.6	733.2	713.2	686.2	681.2	676.9
37.5°	1581.6	973.0	706.8	714.7	719.6	722.5	703.3	681.2	681.9	671.9	669.1
40°	1644.3	963.1	688.3	691.9	692.6	701.8	678.4	667.7	672.7	666.3	670.5
42.5°	1724.7	965.9	669.1	666.3	679.8	676.2	664.8	650.6	653.4	634.2	637.1
45°	1767.4	985.1	657.7	644.9	659.8	659.1	644.2	630.7	613.6	576.6	578.0
47.5°	1795.9	990.1	630.7	622.1	637.8	647.0	630.0	598.6	574.4	548.1	541.7
50°	1825.1	999.4	617.9	600.1	606.5	628.5	607.2	577.3	553.8	530.3	533.9
52.5°	1850.7	1017.2	592.9	566.6	578.0	602.2	590.8	554.5	528.9	509.7	504.0
55°	1964.6	1057.0	550.9	516.8	543.8	574.4	568.0	523.9	496.1	486.2	484.7
56°	1982.4	1058.5	528.9	499.7	524.6	565.2	557.3	510.4	485.5	469.8	470.5
57.5°	1985.2	1041.4	497.6	484.0	505.4	551.7	541.7	499.7	465.5	451.3	447.0
60°	1746.8	812.9	458.4	449.9	474.8	510.4	506.8	470.5	432.1	415.7	423.5
62.5°	1190.9	595.8	427.8	426.4	439.2	474.1	464.8	432.1	400.0	389.4	384.4
65°	693.3	452.0	397.9	392.2	402.9	421.4	427.8	393.6	360.2	353.1	350.9
67.5°	409.3	373.7	359.5	350.2	346.7	358.0	363.0	343.1	309.6	299.7	308.2
70°	342.4	332.4	333.1	317.5	308.9	301.1	296.8	279.0	251.3	238.5	234.9
72.5°	295.4	291.1	288.3	274.0	266.2	248.4	229.9	212.1	191.5	180.8	181.5
75°	225.6	224.2	225.6	218.5	205.0	190.8	173.7	150.9	135.2	121.7	124.6
77.5°	134.5	138.8	140.9	138.1	132.4	119.6	108.9	94.0	79.0	68.3	66.9
80°	92.5	96.1	99.7	96.1	90.4	81.1	69.8	58.4	47.7	42.0	40.6
82.5°	70.5	74.0	76.2	72.6	65.5	55.5	47.7	39.9	31.3	25.6	24.2
85°	25.6	29.2	28.5	34.2	37.0	35.6	30.6	23.5	17.8	12.8	12.1
87.5°	7.1	6.4	7.1	7.1	7.1	6.4	5.7	5.7	5.7	3.6	2.8
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)