

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: P527700

Luminaire Tested: **GALN-SA2D-727-U-T3R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527700
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-12)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2D-727-U-T3R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11357 lumens
Efficiency: N/A
Efficacy: 90.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

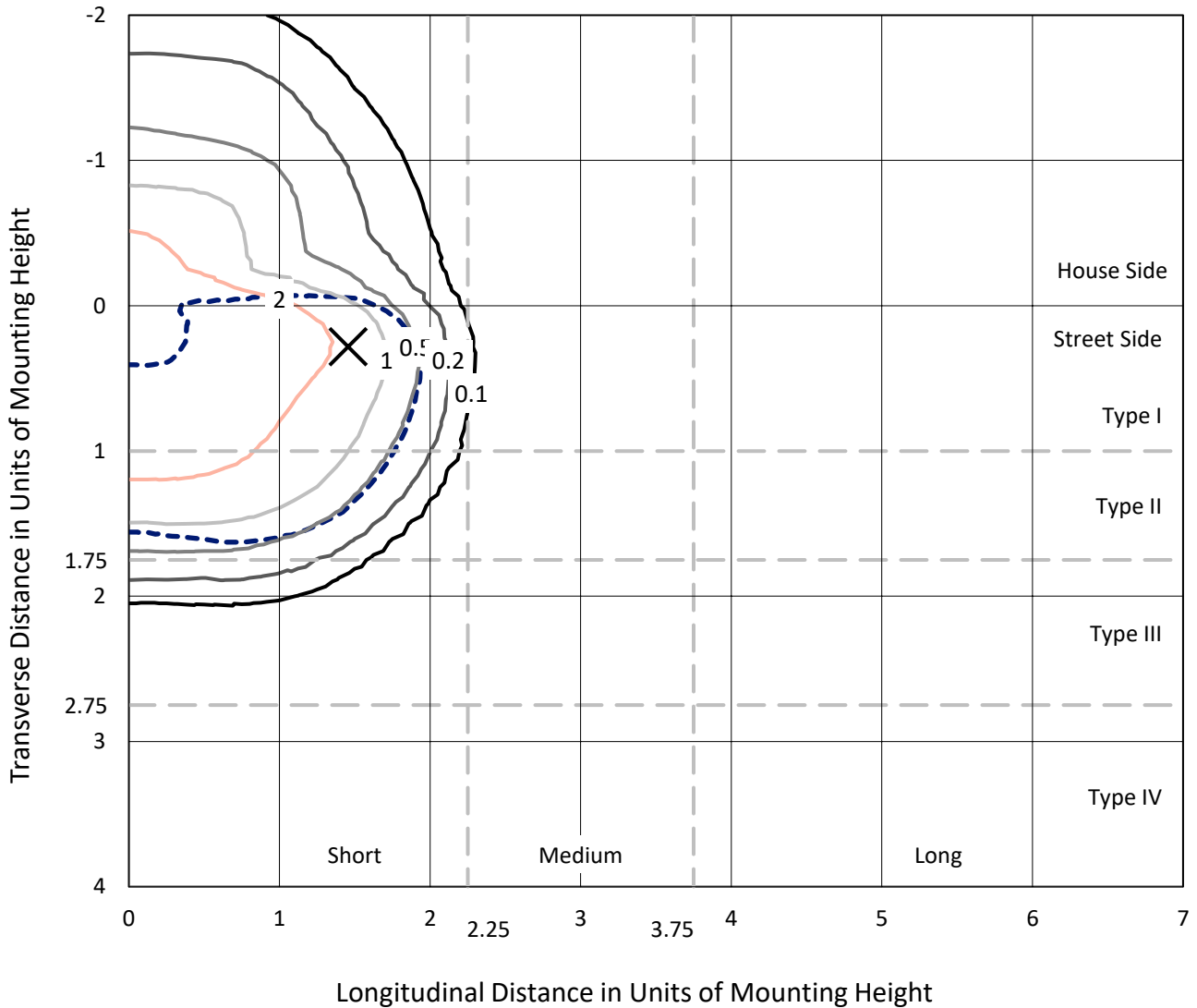
Input Watts (W): 125
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

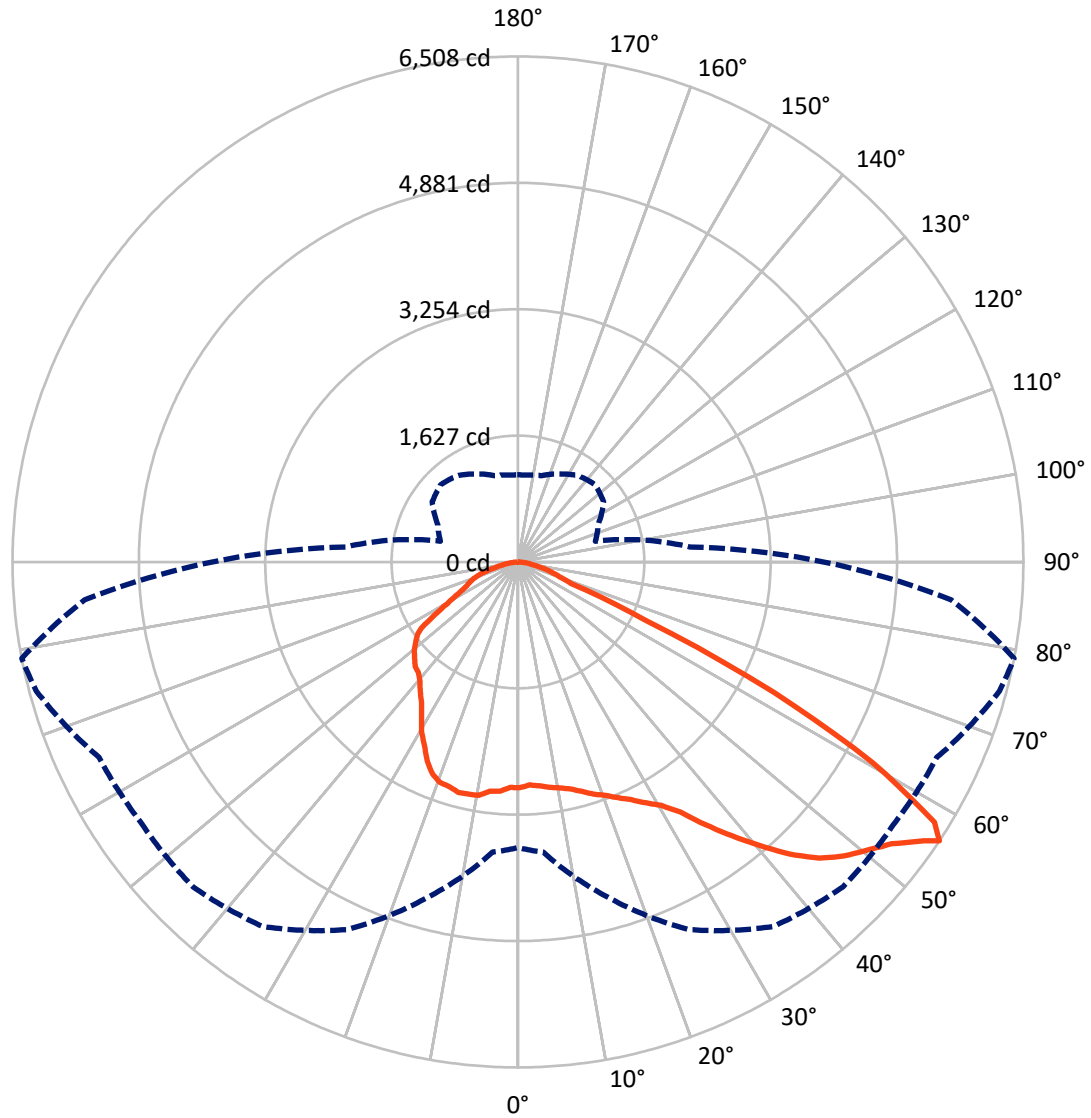
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3354.0	0.0	3354.0
	% Fixture	29.5	0.0	29.5
Street Side	Lumens	8003.0	0.0	8003.0
	% Fixture	70.5	0.0	70.5
Total	Lumens	11357.0	0.0	11357.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	264.2	2.3
10°-20°	723.0	6.4
20°-30°	1237.0	10.9
30°-40°	1895.8	16.7
40°-50°	2562.1	22.6
50°-60°	2942.7	25.9
60°-70°	1341.4	11.8
70°-80°	330.7	2.9
80°-90°	60.1	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°	11357.0	100.0
0°-180°	11357.0	100.0

Coefficient of Utilization

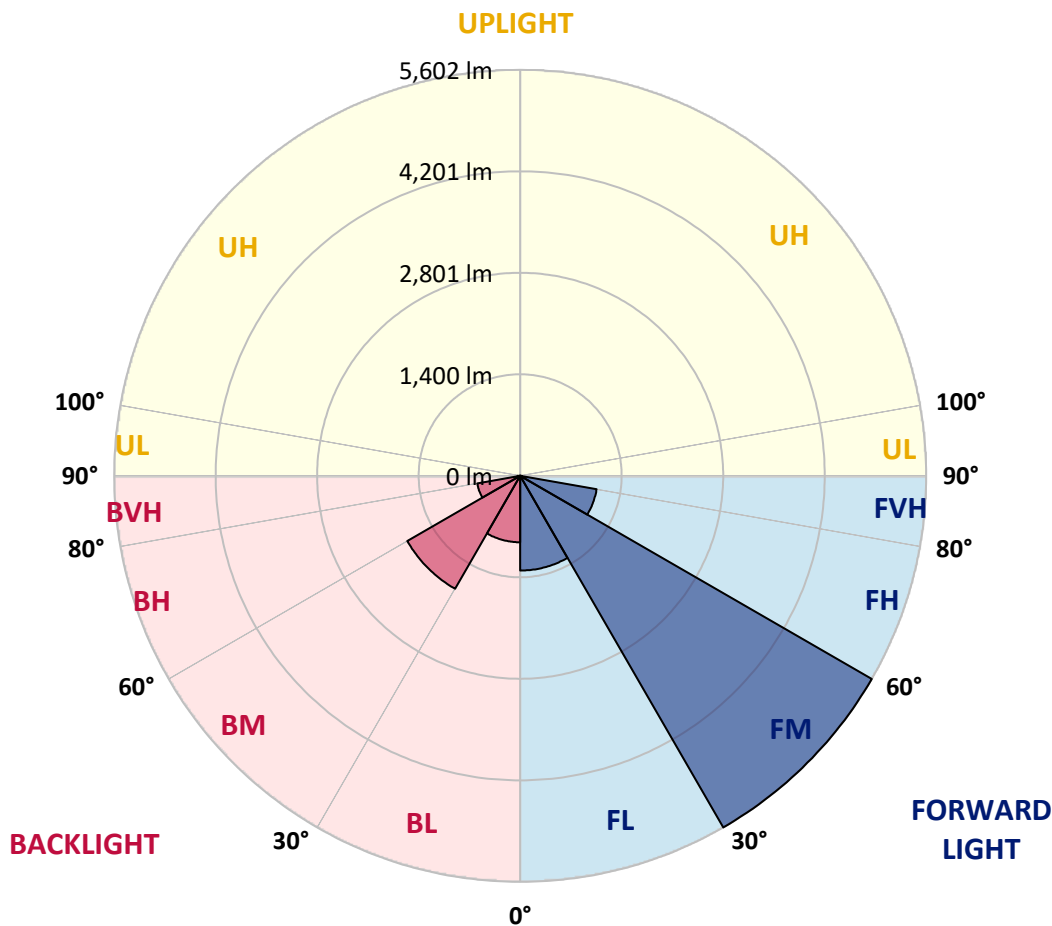


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1306.7	11.5			
FM (30°-60°)	5601.6	49.3			
FH (60°-80°)	1070.7	9.4			G1/1800
FVH (80°-90°)	24.0	0.2			G1/100
BL (0°-30°)	917.5	8.1	B2/1000		
BM (30°-60°)	1799.0	15.8	B2/2500		
BH (60°-80°)	601.4	5.3	B2/1000		G2/1000
BVH (80°-90°)	36.1	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	2905.8	2905.8	2905.8	2905.8	2905.8	2905.8	2905.8	2905.8	2905.8	2905.8	2905.8
2.5°	2764.3	2757.3	2774.2	2787.0	2802.5	2822.3	2832.2	2837.9	2887.4	2874.7	2912.9
5°	2704.9	2686.5	2699.3	2709.2	2736.0	2760.1	2787.0	2829.4	2874.7	2894.5	2941.2
7.5°	2652.6	2642.7	2639.8	2646.9	2683.7	2714.8	2761.5	2823.8	2897.3	2929.9	2956.7
10°	2566.3	2552.1	2573.4	2620.0	2629.9	2695.0	2748.8	2837.9	2901.6	2958.2	3037.4
12.5°	2528.1	2513.9	2518.2	2545.1	2614.4	2676.6	2740.3	2840.7	2975.1	2997.8	3103.9
15°	2588.9	2574.8	2579.0	2571.9	2638.4	2671.0	2771.4	2897.3	3026.1	3064.3	3177.4
17.5°	2727.6	2729.0	2710.6	2695.0	2679.5	2748.8	2818.1	2931.3	3045.9	3142.1	3226.9
20°	2992.1	2945.4	2908.6	2820.9	2796.9	2826.6	2914.3	3023.2	3126.5	3205.7	3301.9
22.5°	3195.8	3200.1	3147.7	3003.4	2951.1	2963.8	3038.8	3127.9	3241.1	3297.7	3408.0
25°	3491.5	3461.8	3405.2	3290.6	3173.2	3183.1	3238.3	3318.9	3350.0	3389.6	3509.9
27.5°	3761.7	3770.2	3658.4	3550.9	3405.2	3376.9	3475.9	3490.1	3437.7	3512.7	3553.7
30°	4036.2	4029.1	3955.5	3829.6	3686.7	3692.4	3736.2	3666.9	3594.8	3635.8	3664.1
32.5°	4320.5	4239.9	4237.0	4123.9	4014.9	3962.6	3908.8	3942.8	3831.0	3839.5	3812.6
35°	4548.3	4559.6	4494.5	4413.9	4360.1	4268.2	4121.0	4181.9	4160.7	4150.7	4034.7
37.5°	4713.8	4669.9	4702.5	4675.6	4624.7	4510.1	4357.3	4415.3	4425.2	4473.3	4338.9
40°	4849.6	4831.2	4917.5	4931.7	4896.3	4648.7	4374.3	4546.9	4695.4	4800.1	4640.2
42.5°	4914.7	4954.3	5044.8	5153.8	5074.6	4810.0	4462.0	4647.3	4978.4	5143.9	4926.0
45°	5002.4	4951.5	5085.9	5285.3	5286.8	4945.8	4546.9	4783.1	5199.0	5439.5	5121.2
47.5°	4913.3	4938.7	5077.4	5330.6	5395.7	5088.7	4776.0	4975.5	5442.4	5656.0	5302.3
50°	4713.8	4764.7	5018.0	5281.1	5477.7	5240.1	5039.2	5183.5	5667.3	5830.0	5332.0
52.5°	4505.8	4534.1	4930.3	5319.3	5514.5	5435.3	5391.4	5470.7	5941.8	6026.6	5368.8
55°	3940.0	4074.4	4640.2	5302.3	5694.2	5787.6	5753.6	5869.6	6253.0	6337.9	5569.7
56°	3678.2	3749.0	4466.2	5223.1	5729.6	5916.3	5899.3	5951.7	6418.5	6507.6	5600.8
57.5°	3194.4	3200.1	3808.4	4872.2	5596.6	5954.5	5937.5	5978.5	6386.0	6325.2	5327.8
60°	1999.0	2086.7	2591.7	3747.6	4759.1	5524.4	5620.6	5291.0	5384.4	5255.6	4145.1
62.5°	1035.6	1022.8	1358.1	2191.4	3159.0	3955.5	4044.6	4029.1	3884.8	3696.6	2707.7
65°	516.4	519.2	710.2	1085.1	1618.4	2071.1	2320.1	2347.0	1963.6	1806.6	1284.6
67.5°	374.9	389.0	510.7	663.5	762.5	853.1	1045.5	1025.7	776.7	738.5	684.7
70°	291.4	304.2	414.5	506.5	459.8	459.8	500.8	517.8	553.2	568.7	587.1
72.5°	212.2	222.1	316.9	349.4	301.3	324.0	374.9	414.5	451.3	457.0	478.2
75°	145.7	154.2	208.0	192.4	181.1	223.5	274.5	311.2	338.1	352.3	365.0
77.5°	94.8	97.6	118.8	100.4	116.0	144.3	178.3	209.4	236.3	247.6	250.4
80°	42.4	46.7	50.9	63.7	80.6	103.3	127.3	152.8	169.8	174.0	182.5
82.5°	24.1	24.1	31.1	45.3	59.4	75.0	92.0	110.3	130.2	134.4	133.0
85°	12.7	12.7	18.4	26.9	36.8	43.9	42.4	43.9	46.7	53.8	52.3
87.5°	4.2	4.2	5.7	5.7	7.1	8.5	7.1	9.9	12.7	12.7	12.7
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°	2905.8	2905.8	2905.8	2905.8	2905.8	2905.8	2905.8	2905.8	2905.8	2905.8	2905.8
2.5°	2901.6	2914.3	2897.3	2934.1	2934.1	2927.0	2891.7	2903.0	2911.5	2911.5	2918.5
5°	2956.7	2952.5	2963.8	2920.0	2893.1	2883.2	2825.2	2796.9	2772.8	2771.4	2750.2
7.5°	2987.9	2976.5	2972.3	2939.8	2820.9	2748.8	2624.3	2552.1	2536.6	2481.4	2502.6
10°	3037.4	3058.6	3037.4	2860.5	2695.0	2529.5	2407.8	2296.1	2252.2	2216.8	2195.6
12.5°	3139.2	3129.3	3006.3	2767.2	2535.2	2338.5	2157.4	2040.0	1996.2	1965.0	1962.2
15°	3225.5	3176.0	2987.9	2620.0	2286.2	2076.8	1928.2	1844.8	1825.0	1827.8	1840.5
17.5°	3255.2	3221.3	2891.7	2467.2	2100.8	1854.7	1785.4	1772.6	1791.0	1812.2	1817.9
20°	3301.9	3248.2	2852.0	2259.3	1871.7	1716.0	1711.8	1757.1	1791.0	1822.1	1826.4
22.5°	3399.5	3263.7	2723.3	2062.6	1714.6	1675.0	1716.0	1754.2	1806.6	1832.0	1809.4
25°	3427.8	3229.8	2542.2	1826.4	1615.6	1649.5	1693.4	1745.7	1782.5	1796.7	1806.6
27.5°	3451.9	3177.4	2297.5	1669.4	1584.5	1648.1	1693.4	1737.3	1757.1	1769.8	1781.1
30°	3519.8	3161.9	2085.3	1564.7	1564.7	1619.8	1677.8	1689.2	1716.0	1731.6	1751.4
32.5°	3553.7	3054.4	1867.4	1498.2	1544.9	1634.0	1638.2	1659.5	1660.9	1673.6	1652.4
35°	3642.9	2978.0	1665.1	1450.1	1553.3	1619.8	1641.1	1628.3	1559.0	1525.1	1532.1
37.5°	3707.9	2939.8	1519.4	1444.4	1554.8	1635.4	1646.7	1550.5	1478.4	1421.8	1435.9
40°	3883.4	2845.0	1409.0	1434.5	1567.5	1652.4	1621.3	1516.6	1386.4	1328.4	1318.5
42.5°	4017.8	2777.1	1339.7	1423.2	1577.4	1676.4	1608.5	1448.7	1315.7	1261.9	1276.1
45°	4173.4	2761.5	1302.9	1426.0	1594.4	1689.2	1593.0	1396.3	1254.8	1233.6	1229.4
47.5°	4228.6	2649.7	1263.3	1402.0	1590.1	1684.9	1540.6	1356.7	1232.2	1235.0	1246.4
50°	4136.6	2535.2	1233.6	1352.5	1561.8	1646.7	1458.6	1304.4	1219.5	1254.8	1274.7
52.5°	4019.2	2417.7	1172.8	1286.0	1503.8	1587.3	1420.4	1301.5	1206.7	1195.4	1199.7
55°	4054.5	2321.5	1087.9	1195.4	1410.5	1477.0	1377.9	1274.7	1175.6	1133.2	1147.3
56°	3940.0	2222.5	1032.7	1138.8	1346.8	1406.2	1356.7	1250.6	1150.2	1121.9	1121.9
57.5°	3616.0	1890.0	960.6	1048.3	1212.4	1283.1	1315.7	1236.5	1121.9	1072.3	1073.8
60°	2666.7	1344.0	861.6	923.8	1004.4	1061.0	1212.4	1196.8	1051.1	1017.2	1004.4
62.5°	1643.9	981.8	790.8	814.9	855.9	902.6	1058.2	1083.7	976.1	939.4	930.9
65°	921.0	751.2	737.1	747.0	766.8	790.8	878.5	935.1	861.6	805.0	802.1
67.5°	673.4	672.0	683.3	691.8	700.3	700.3	721.5	744.1	734.2	689.0	684.7
70°	598.4	602.7	611.2	612.6	615.4	605.5	588.5	581.4	592.8	564.5	558.8
72.5°	493.7	507.9	517.8	519.2	503.6	490.9	468.3	444.2	435.7	430.1	428.7
75°	379.1	389.0	393.3	391.9	386.2	367.8	340.9	316.9	301.3	284.4	292.8
77.5°	256.1	270.2	277.3	277.3	268.8	240.5	227.8	209.4	193.8	175.4	178.3
80°	179.7	189.6	200.9	199.5	185.3	171.2	152.8	135.8	123.1	108.9	107.5
82.5°	134.4	140.1	145.7	142.9	133.0	118.8	106.1	90.5	76.4	66.5	66.5
85°	48.1	52.3	63.7	66.5	72.2	72.2	60.8	50.9	41.0	34.0	34.0
87.5°	14.1	14.1	15.6	15.6	14.1	15.6	12.7	14.1	15.6	9.9	9.9
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)