

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: P527518

Luminaire Tested: **GALN-SA2C-735-U-T3R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527518
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-SA2C-735-U-T3R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3500K, 1050mA 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: 11497 lumens
Efficiency: N/A
Efficacy: 106.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

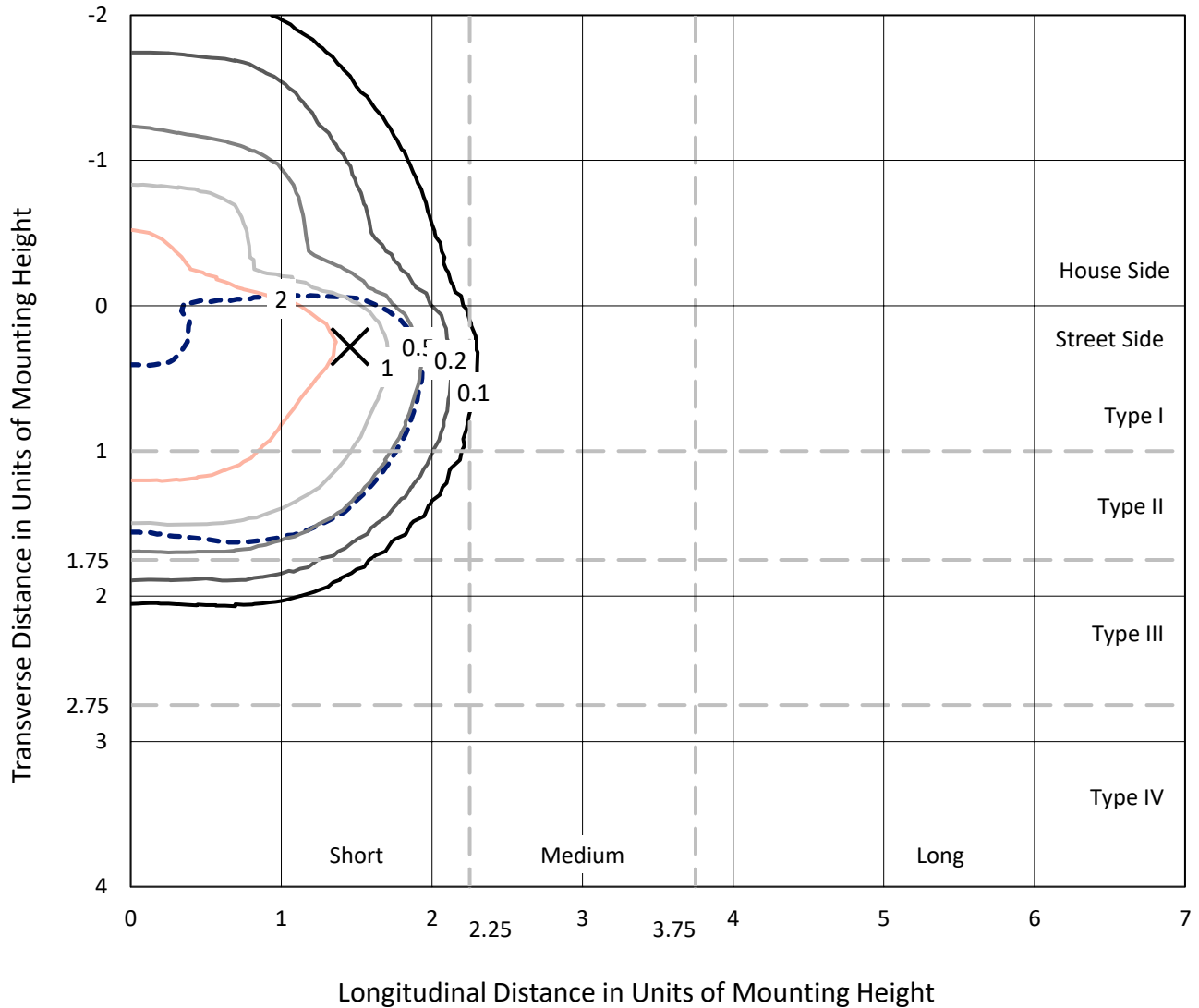
Input Watts (W): 108
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

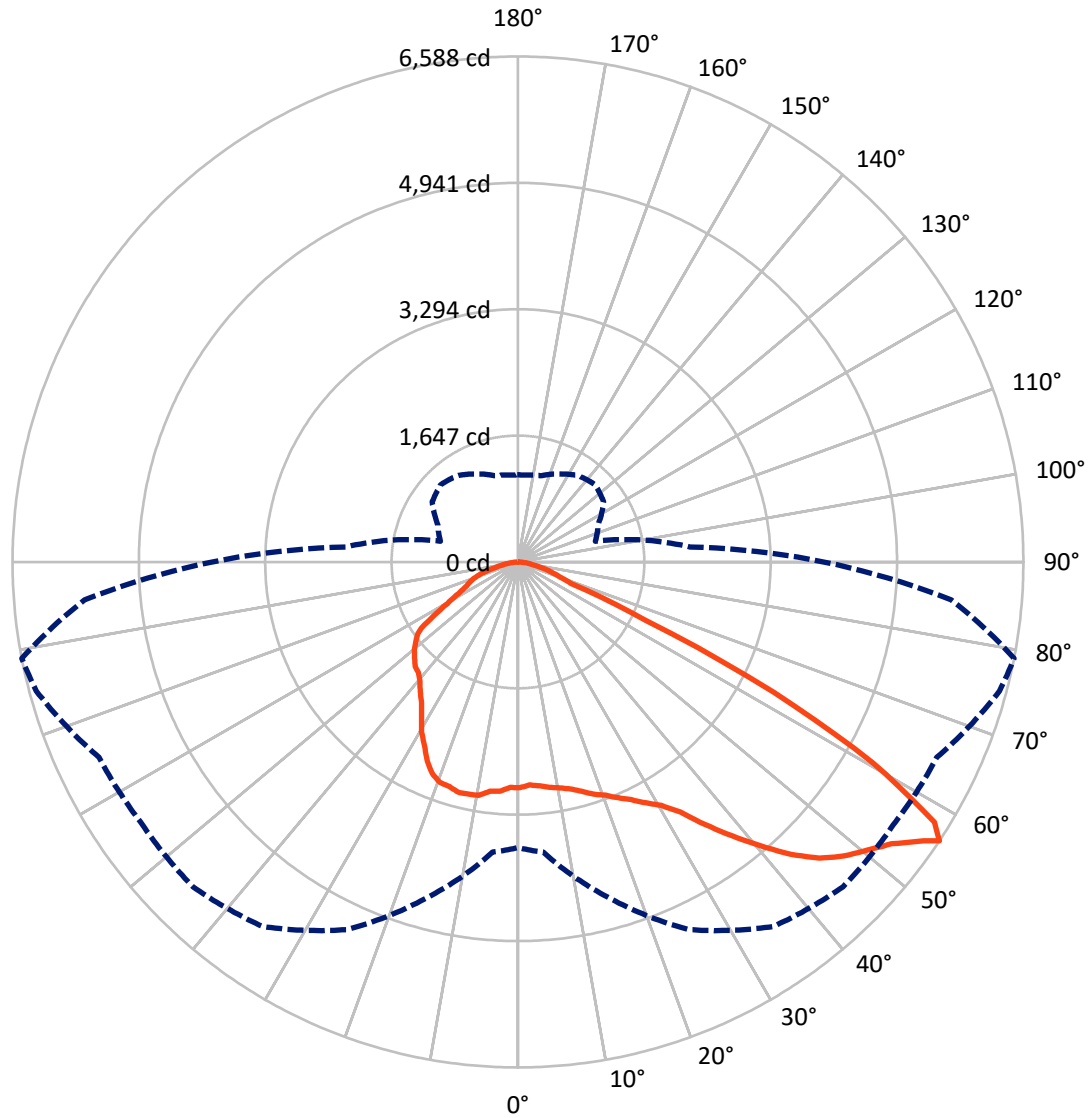
✕ Max cd
 - - - 1/2 Max cd



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	3395.3	0.0	3395.3
	% Fixture	29.5	0.0	29.5
Street Side	Lumens	8101.7	0.0	8101.7
	% Fixture	70.5	0.0	70.5
Total	Lumens	11497.0	0.0	11497.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	267.4	2.3
10°-20°	731.9	6.4
20°-30°	1252.2	10.9
30°-40°	1919.2	16.7
40°-50°	2593.7	22.6
50°-60°	2979.0	25.9
60°-70°	1357.9	11.8
70°-80°	334.8	2.9
80°-90°	60.8	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°	11497.0	100.0
0°-180°	11497.0	100.0

Coefficient of Utilization



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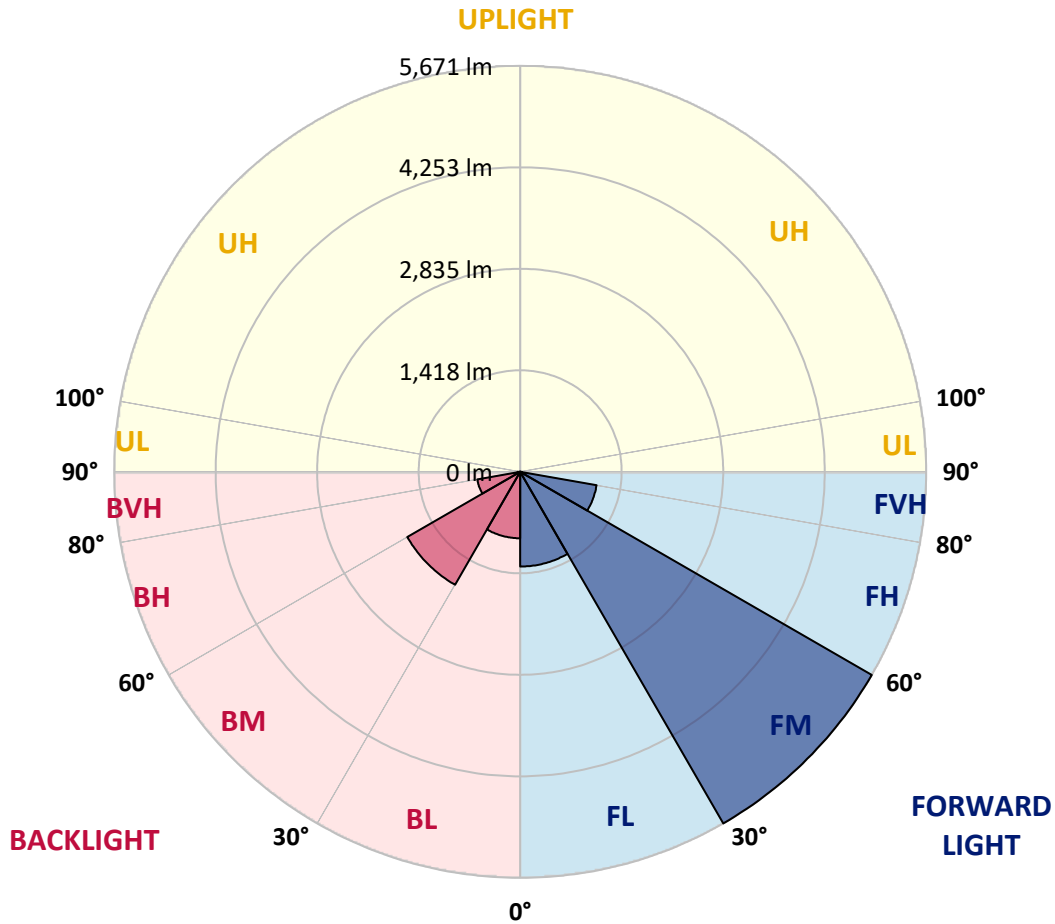
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1322.8	11.5			
FM (30°-60°)	5670.7	49.3			
FH (60°-80°)	1083.9	9.4			G1/1800
FVH (80°-90°)	24.3	0.2			G1/100
BL (0°-30°)	928.8	8.1	B2/1000		
BM (30°-60°)	1821.2	15.8	B2/2500		
BH (60°-80°)	608.8	5.3	B2/1000		G2/1000
BVH (80°-90°)	36.6	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	2941.6	2941.6	2941.6	2941.6	2941.6	2941.6	2941.6	2941.6	2941.6	2941.6	2941.6
2.5°	2798.4	2791.3	2808.4	2821.3	2837.1	2857.1	2867.2	2872.9	2923.0	2910.1	2948.8
5°	2738.3	2719.6	2732.5	2742.6	2769.8	2794.1	2821.3	2864.3	2910.1	2930.2	2977.4
7.5°	2685.3	2675.2	2672.4	2679.5	2716.8	2748.3	2795.5	2858.6	2933.0	2966.0	2993.2
10°	2597.9	2583.6	2605.1	2652.3	2662.4	2728.2	2782.7	2872.9	2937.3	2994.6	3074.8
12.5°	2559.2	2544.9	2549.2	2576.4	2646.6	2709.6	2774.1	2875.7	3011.8	3034.7	3142.1
15°	2620.8	2606.5	2610.8	2603.6	2671.0	2703.9	2805.6	2933.0	3063.4	3102.0	3216.6
17.5°	2761.2	2762.6	2744.0	2728.2	2712.5	2782.7	2852.8	2967.4	3083.4	3180.8	3266.7
20°	3029.0	2981.7	2944.5	2855.7	2831.4	2861.4	2950.2	3060.5	3165.0	3245.2	3342.6
22.5°	3235.2	3239.5	3186.5	3040.4	2987.5	3000.3	3076.2	3166.5	3281.0	3338.3	3450.0
25°	3534.5	3504.5	3447.2	3331.2	3212.3	3222.3	3278.2	3359.8	3391.3	3431.4	3553.2
27.5°	3808.1	3816.7	3703.5	3594.7	3447.2	3418.5	3518.8	3533.1	3480.1	3556.0	3597.5
30°	4085.9	4078.8	4004.3	3876.8	3732.2	3737.9	3782.3	3712.1	3639.1	3680.6	3709.3
32.5°	4373.8	4292.1	4289.3	4174.7	4064.4	4011.4	3957.0	3991.4	3878.3	3886.8	3859.6
35°	4604.3	4615.8	4549.9	4468.3	4413.9	4320.8	4171.8	4233.4	4211.9	4201.9	4084.5
37.5°	4771.9	4727.5	4760.5	4733.2	4681.7	4565.7	4411.0	4469.7	4479.8	4528.4	4392.4
40°	4909.4	4890.8	4978.1	4992.5	4956.7	4706.0	4428.2	4602.9	4753.3	4859.3	4697.4
42.5°	4975.3	5015.4	5107.0	5217.3	5137.1	4869.3	4517.0	4704.6	5039.7	5207.3	4986.7
45°	5064.1	5012.5	5148.6	5350.5	5351.9	5006.8	4602.9	4842.1	5263.1	5506.6	5184.4
47.5°	4973.8	4999.6	5140.0	5396.3	5462.2	5151.4	4834.9	5036.9	5509.5	5725.7	5367.7
50°	4771.9	4823.5	5079.8	5346.2	5545.3	5304.7	5101.3	5247.4	5737.2	5901.9	5397.8
52.5°	4561.4	4590.0	4991.0	5384.9	5582.5	5502.3	5457.9	5538.1	6015.0	6100.9	5435.0
55°	3988.5	4124.6	4697.4	5367.7	5764.4	5858.9	5824.5	5942.0	6330.1	6416.0	5638.4
56°	3723.6	3795.2	4521.3	5287.5	5800.2	5989.2	5972.0	6025.0	6497.6	6587.9	5669.9
57.5°	3233.8	3239.5	3855.3	4932.3	5665.6	6027.9	6010.7	6052.2	6464.7	6403.1	5393.5
60°	2023.6	2112.4	2623.7	3793.8	4817.7	5592.5	5689.9	5356.2	5450.7	5320.4	4196.2
62.5°	1048.3	1035.4	1374.9	2218.4	3198.0	4004.3	4094.5	4078.8	3932.7	3742.2	2741.1
65°	522.7	525.6	718.9	1098.5	1638.4	2096.7	2348.7	2375.9	1987.8	1828.8	1300.4
67.5°	379.5	393.8	517.0	671.7	771.9	863.6	1058.4	1038.3	786.2	747.6	693.2
70°	295.0	307.9	419.6	512.7	465.4	465.4	507.0	524.2	560.0	575.7	594.3
72.5°	214.8	224.8	320.8	353.7	305.0	328.0	379.5	419.6	456.9	462.6	484.1
75°	147.5	156.1	210.5	194.8	183.3	226.3	277.8	315.1	342.3	356.6	369.5
77.5°	96.0	98.8	120.3	101.7	117.4	146.1	180.5	212.0	239.2	250.6	253.5
80°	43.0	47.3	51.6	64.4	81.6	104.5	128.9	154.7	171.9	176.2	184.7
82.5°	24.3	24.3	31.5	45.8	60.2	75.9	93.1	111.7	131.8	136.1	134.6
85°	12.9	12.9	18.6	27.2	37.2	44.4	43.0	44.4	47.3	54.4	53.0
87.5°	4.3	4.3	5.7	5.7	7.2	8.6	7.2	10.0	12.9	12.9	12.9
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°	2941.6	2941.6	2941.6	2941.6	2941.6	2941.6	2941.6	2941.6	2941.6	2941.6	2941.6
2.5°	2937.3	2950.2	2933.0	2970.3	2970.3	2963.1	2927.3	2938.8	2947.4	2947.4	2954.5
5°	2993.2	2988.9	3000.3	2955.9	2928.7	2918.7	2860.0	2831.4	2807.0	2805.6	2784.1
7.5°	3024.7	3013.2	3008.9	2976.0	2855.7	2782.7	2656.6	2583.6	2567.8	2512.0	2533.5
10°	3074.8	3096.3	3074.8	2895.8	2728.2	2560.7	2437.5	2324.4	2280.0	2244.2	2222.7
12.5°	3177.9	3167.9	3043.3	2801.3	2566.4	2367.3	2184.0	2065.2	2020.8	1989.3	1986.4
15°	3265.3	3215.2	3024.7	2652.3	2314.3	2102.4	1952.0	1867.5	1847.5	1850.3	1863.2
17.5°	3295.4	3261.0	2927.3	2497.7	2126.7	1877.5	1807.4	1794.5	1813.1	1834.6	1840.3
20°	3342.6	3288.2	2887.2	2287.1	1894.7	1737.2	1732.9	1778.7	1813.1	1844.6	1848.9
22.5°	3441.4	3304.0	2756.9	2088.1	1735.8	1695.7	1737.2	1775.9	1828.8	1854.6	1831.7
25°	3470.1	3269.6	2573.6	1848.9	1635.5	1669.9	1714.3	1767.3	1804.5	1818.8	1828.8
27.5°	3494.4	3216.6	2325.8	1689.9	1604.0	1668.4	1714.3	1758.7	1778.7	1791.6	1803.1
30°	3563.2	3200.8	2111.0	1584.0	1584.0	1639.8	1698.5	1710.0	1737.2	1752.9	1773.0
32.5°	3597.5	3092.0	1890.4	1516.6	1563.9	1654.1	1658.4	1679.9	1681.3	1694.2	1672.7
35°	3687.8	3014.7	1685.6	1467.9	1572.5	1639.8	1661.3	1648.4	1578.2	1543.9	1551.0
37.5°	3753.7	2976.0	1538.1	1462.2	1573.9	1655.6	1667.0	1569.6	1496.6	1439.3	1453.6
40°	3931.2	2880.0	1426.4	1452.2	1586.8	1672.7	1641.2	1535.3	1403.5	1344.8	1334.8
42.5°	4067.3	2811.3	1356.2	1440.7	1596.8	1697.1	1628.3	1466.5	1331.9	1277.5	1291.8
45°	4224.8	2795.5	1319.0	1443.6	1614.0	1710.0	1612.6	1413.5	1270.3	1248.8	1244.5
47.5°	4280.7	2682.4	1278.9	1419.3	1609.7	1705.7	1559.6	1373.4	1247.4	1250.3	1261.7
50°	4187.6	2566.4	1248.8	1369.1	1581.1	1667.0	1476.5	1320.4	1234.5	1270.3	1290.4
52.5°	4068.7	2447.5	1187.2	1301.8	1522.4	1606.9	1437.9	1317.6	1221.6	1210.2	1214.5
55°	4104.5	2350.2	1101.3	1210.2	1427.8	1495.2	1394.9	1290.4	1190.1	1147.1	1161.5
56°	3988.5	2249.9	1045.5	1152.9	1363.4	1423.6	1373.4	1266.0	1164.3	1135.7	1135.7
57.5°	3660.6	1913.3	972.4	1061.2	1227.3	1299.0	1331.9	1251.7	1135.7	1085.6	1087.0
60°	2699.6	1360.5	872.2	935.2	1016.8	1074.1	1227.3	1211.6	1064.1	1029.7	1016.8
62.5°	1664.2	993.9	800.6	824.9	866.4	913.7	1071.2	1097.0	988.2	950.9	942.4
65°	932.3	760.5	746.1	756.2	776.2	800.6	889.4	946.6	872.2	814.9	812.0
67.5°	681.7	680.3	691.7	700.3	708.9	708.9	730.4	753.3	743.3	697.5	693.2
70°	605.8	610.1	618.7	620.1	623.0	613.0	595.8	588.6	600.1	571.4	565.7
72.5°	499.8	514.1	524.2	525.6	509.8	497.0	474.0	449.7	441.1	435.4	433.9
75°	383.8	393.8	398.1	396.7	391.0	372.4	345.1	320.8	305.0	287.9	296.5
77.5°	259.2	273.5	280.7	280.7	272.1	243.5	230.6	212.0	196.2	177.6	180.5
80°	181.9	191.9	203.4	201.9	187.6	173.3	154.7	137.5	124.6	110.3	108.8
82.5°	136.1	141.8	147.5	144.6	134.6	120.3	107.4	91.7	77.3	67.3	67.3
85°	48.7	53.0	64.4	67.3	73.0	73.0	61.6	51.6	41.5	34.4	34.4
87.5°	14.3	14.3	15.8	15.8	14.3	15.8	12.9	14.3	15.8	10.0	10.0
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)