

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: P527512

Luminaire Tested: **GALN-SA2C-735-U-T2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527512
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-SA2C-735-U-T2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3500K, 1050mA 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: 11047 lumens
Efficiency: N/A
Efficacy: 102.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

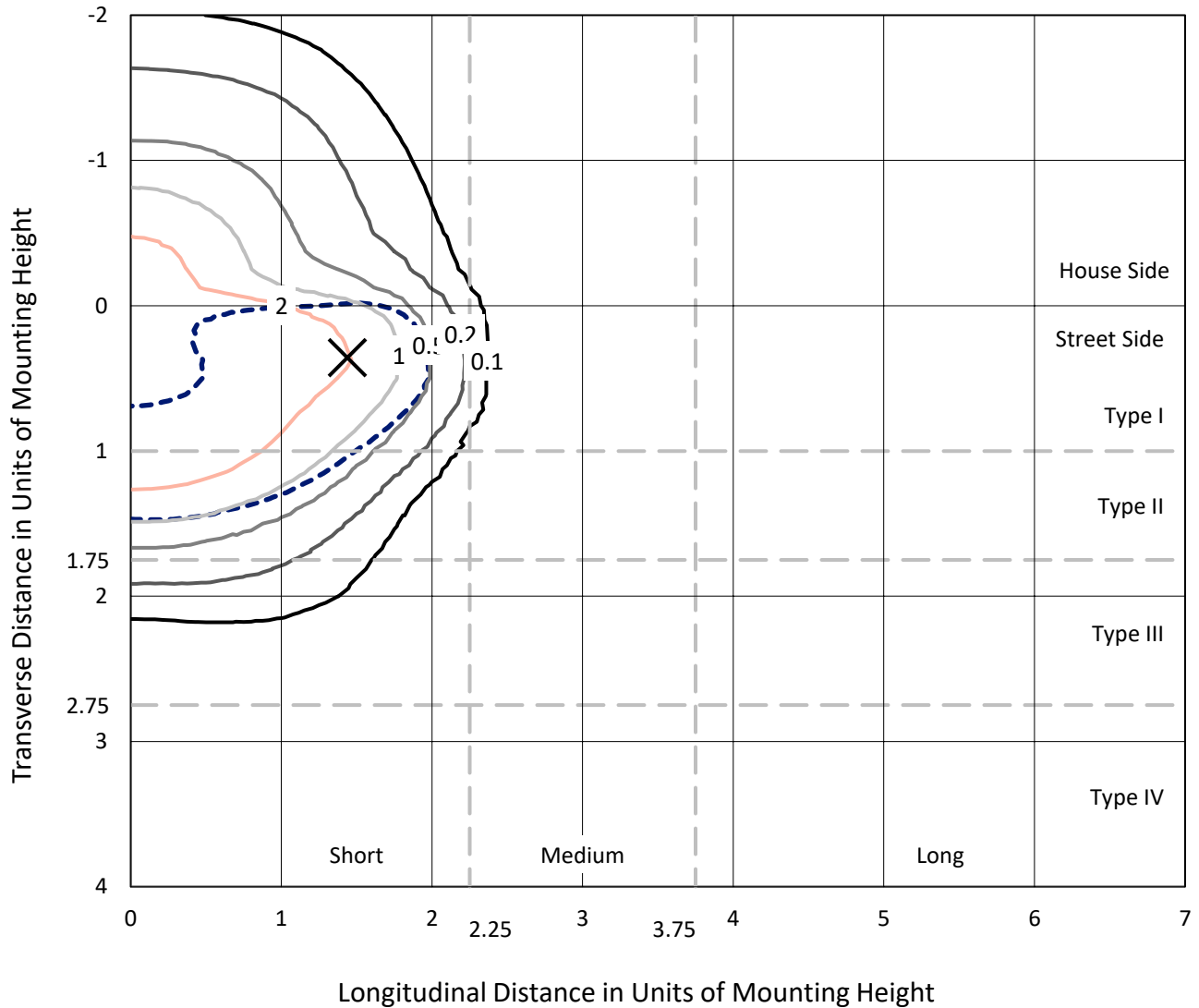
Input Watts (W): 108
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

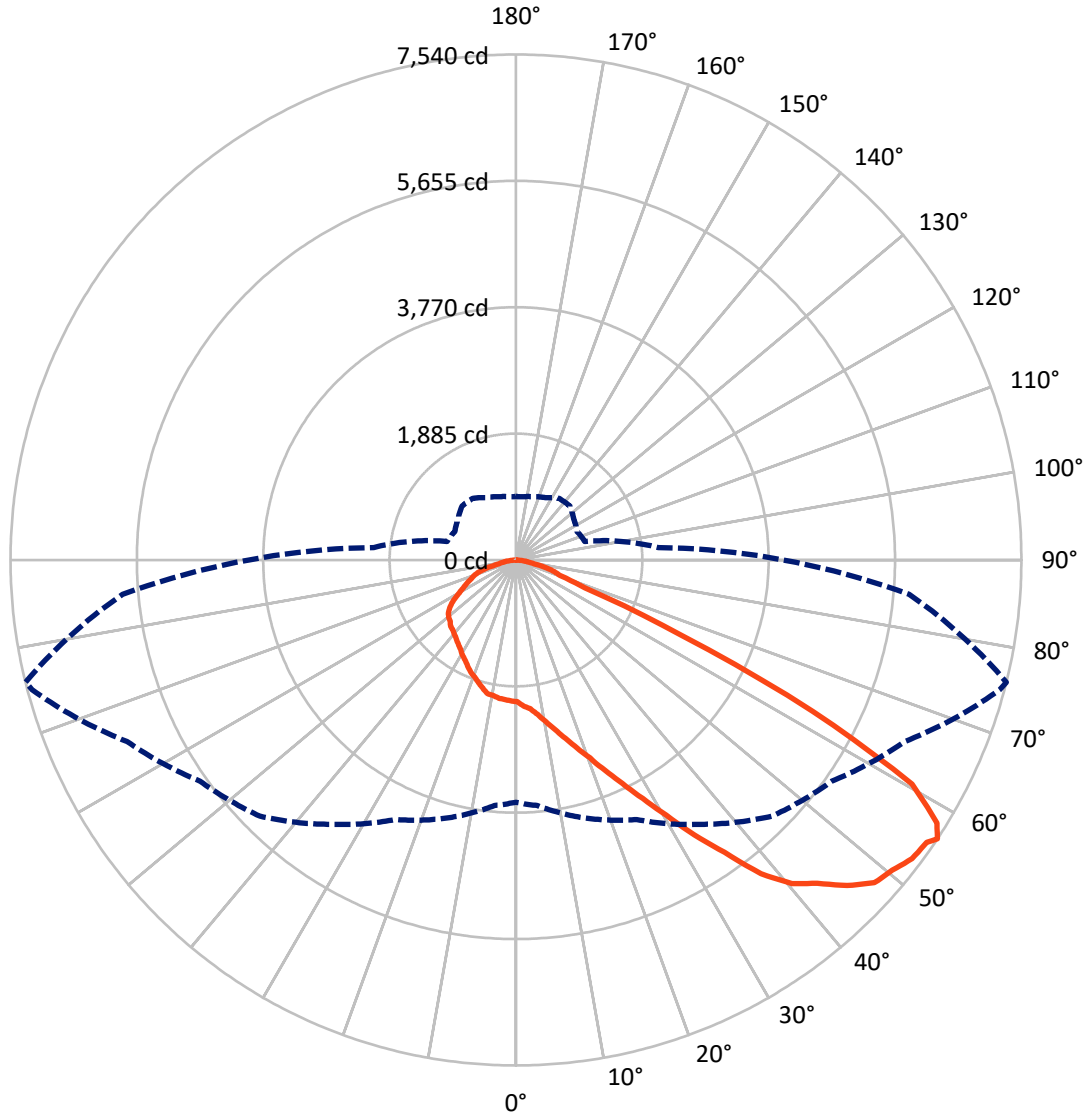
✕ Max cd
 - - - 1/2 Max cd



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2970.2	0.0	2970.2
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	8076.8	0.0	8076.8
	% Fixture	73.1	0.0	73.1
Total	Lumens	11047.0	0.0	11047.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	209.6	1.9
10°-20°	658.5	6.0
20°-30°	1151.6	10.4
30°-40°	1803.0	16.3
40°-50°	2622.9	23.7
50°-60°	2882.7	26.1
60°-70°	1286.7	11.6
70°-80°	371.7	3.4
80°-90°	60.3	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°	11047.0	100.0
0°-180°	11047.0	100.0

Coefficient of Utilization



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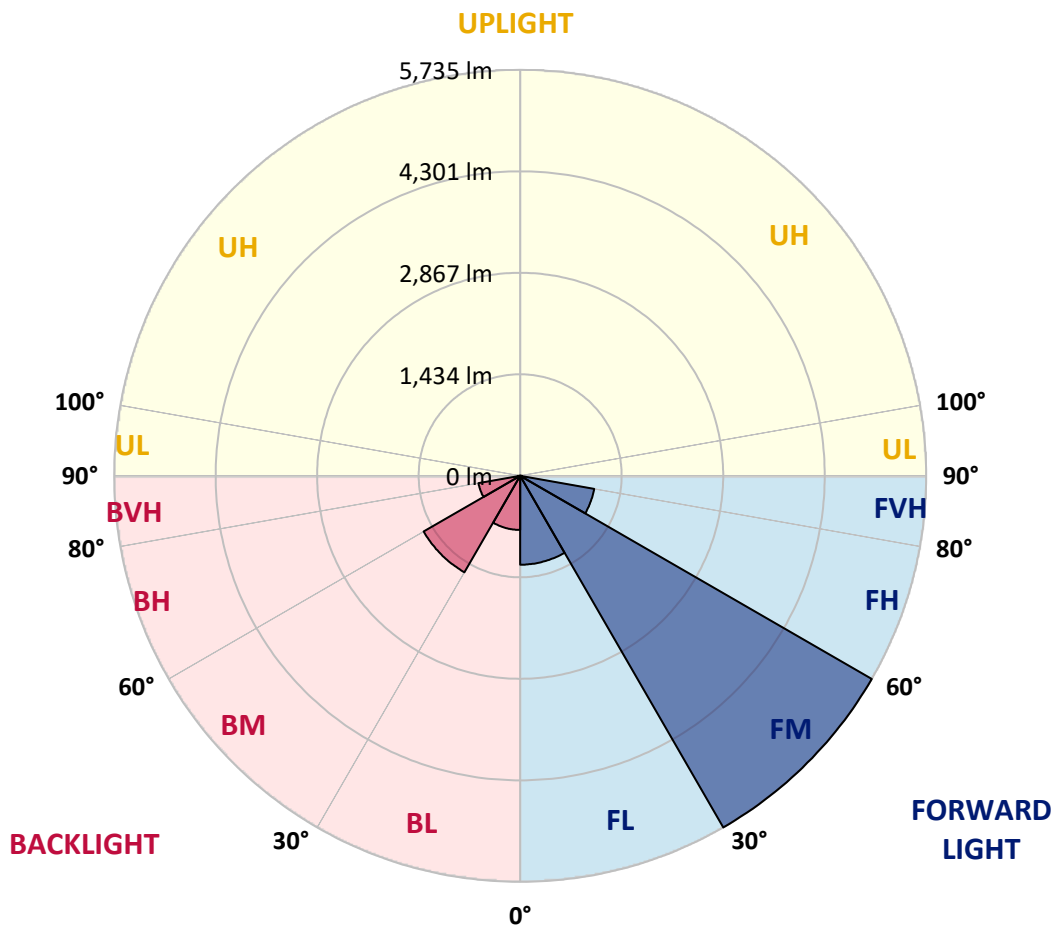
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1255.4	11.4			
FM (30°-60°)	5734.7	51.9			
FH (60°-80°)	1060.8	9.6			G1/1800
FVH (80°-90°)	26.0	0.2			G1/100
BL (0°-30°)	764.3	6.9	B2/1000		
BM (30°-60°)	1574.0	14.2	B2/2500		
BH (60°-80°)	597.6	5.4	B2/1000		G2/1000
BVH (80°-90°)	34.3	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°	76°	85°
0°	2113.7	2113.7	2113.7	2113.7	2113.7	2113.7	2113.7	2113.7	2113.7	2113.7	2113.7
2.5°	2328.5	2291.3	2288.4	2278.4	2284.1	2258.3	2231.1	2195.3	2158.1	2181.0	2126.6
5°	2491.8	2441.6	2461.7	2427.3	2431.6	2397.2	2341.4	2299.9	2254.0	2226.8	2188.2
7.5°	2549.0	2553.3	2567.7	2561.9	2533.3	2533.3	2496.1	2423.0	2342.8	2327.1	2262.6
10°	2626.4	2627.8	2612.1	2616.4	2656.4	2637.8	2604.9	2573.4	2470.3	2451.7	2337.1
12.5°	2653.6	2627.8	2653.6	2676.5	2723.8	2749.5	2742.4	2719.5	2609.2	2596.3	2428.8
15°	2657.9	2642.1	2663.6	2715.2	2756.7	2865.5	2919.9	2904.2	2758.1	2759.6	2531.9
17.5°	2637.8	2659.3	2667.9	2712.3	2808.2	2909.9	3067.4	3088.9	2968.6	2950.0	2662.2
20°	2665.0	2649.3	2660.7	2700.8	2828.3	2987.3	3193.5	3335.2	3166.3	3153.4	2796.8
22.5°	2769.6	2748.1	2745.2	2771.0	2862.7	3027.3	3326.6	3581.5	3406.8	3414.0	2964.3
25°	2851.2	2862.7	2852.6	2851.2	2908.5	3087.5	3502.8	3875.1	3733.3	3691.8	3162.0
27.5°	2991.5	3018.8	2998.7	3025.9	3013.0	3177.7	3628.8	4200.2	4085.6	4029.8	3341.0
30°	3186.3	3200.6	3182.0	3182.0	3143.3	3303.7	3743.4	4539.6	4492.3	4416.4	3551.5
32.5°	3442.6	3464.1	3426.9	3405.4	3399.7	3491.3	3949.6	4874.7	4954.9	4890.4	3830.7
35°	3782.0	3769.1	3724.8	3704.7	3627.4	3779.2	4256.0	5259.9	5470.4	5355.9	4168.7
37.5°	4081.3	4061.3	4058.4	3946.7	3965.3	4089.9	4516.7	5552.0	5970.2	5937.3	4525.3
40°	4360.6	4379.2	4409.3	4346.3	4317.6	4455.1	4820.3	5775.4	6358.3	6345.4	4800.2
42.5°	4659.9	4642.7	4695.7	4642.7	4599.7	4794.5	5149.6	5930.1	6699.1	6593.1	5088.1
45°	5093.8	5039.4	5058.0	5062.3	5030.8	5102.4	5285.7	6041.8	6938.3	6926.8	5298.6
47.5°	5456.1	5457.5	5426.0	5401.7	5305.7	5377.3	5437.5	6112.0	7213.2	7194.6	5380.2
50°	5590.7	5572.1	5663.7	5716.7	5722.5	5576.4	5556.3	6150.6	7357.9	7276.2	5461.8
52.5°	5106.7	5123.9	5268.5	5583.6	5765.4	5781.2	5695.3	6230.8	7416.6	7399.4	5527.7
55°	4110.0	4193.0	4430.8	4794.5	5225.5	5699.5	5845.6	6313.9	7448.1	7433.8	5819.8
56°	3613.1	3677.5	3986.8	4271.8	4813.1	5403.1	5751.1	6402.7	7472.4	7539.7	5888.6
57.5°	2908.5	2983.0	3204.9	3528.6	4167.3	4838.9	5490.5	6293.8	7377.9	7403.7	5938.7
60°	1818.7	1825.9	2092.2	2305.6	2755.3	3411.1	4190.2	5476.1	6828.0	6790.8	5334.4
62.5°	1192.9	1194.3	1436.3	1611.1	1815.8	1966.2	2466.0	3631.7	5037.9	4972.1	3797.8
65°	837.7	856.4	1044.0	1277.4	1360.4	1281.7	1265.9	1914.6	2814.0	2719.5	2040.7
67.5°	612.9	614.3	780.5	1031.1	1151.4	975.2	791.9	935.1	1114.1	1111.3	945.2
70°	405.3	422.5	549.9	770.4	907.9	783.3	647.3	668.8	708.9	708.9	703.1
72.5°	236.3	252.0	336.5	488.3	509.8	489.8	512.7	572.8	598.6	597.2	590.0
75°	134.6	141.8	160.4	203.4	253.5	299.3	376.6	433.9	459.7	475.4	456.8
77.5°	78.8	83.1	94.5	116.0	131.7	161.8	204.8	244.9	279.2	275.0	277.8
80°	41.5	41.5	53.0	68.7	91.7	114.6	136.0	159.0	177.6	181.9	186.2
82.5°	24.3	25.8	34.4	50.1	65.9	81.6	104.5	120.3	137.5	138.9	141.8
85°	12.9	14.3	21.5	32.9	44.4	50.1	51.6	48.7	53.0	50.1	57.3
87.5°	4.3	4.3	7.2	5.7	5.7	7.2	8.6	8.6	11.5	11.5	11.5
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°	2113.7	2113.7	2113.7	2113.7	2113.7	2113.7	2113.7	2113.7	2113.7	2113.7	2113.7
2.5°	2125.2	2125.2	2100.8	2055.0	2047.8	2029.2	2012.0	2010.6	1997.7	1986.2	1980.5
5°	2165.3	2120.9	2085.1	2043.5	1994.8	1971.9	1946.2	1917.5	1906.1	1917.5	1916.1
7.5°	2211.1	2173.8	2066.4	1989.1	1933.3	1910.4	1881.7	1851.6	1854.5	1854.5	1834.5
10°	2255.5	2205.4	2033.5	1934.7	1853.1	1835.9	1820.1	1831.6	1845.9	1848.8	1835.9
12.5°	2329.9	2216.8	2017.8	1880.3	1828.7	1791.5	1801.5	1833.0	1863.1	1854.5	1864.5
15°	2385.8	2226.8	1946.2	1824.4	1760.0	1777.2	1813.0	1834.5	1884.6	1878.8	1888.9
17.5°	2440.2	2232.6	1876.0	1750.0	1722.8	1770.0	1797.2	1858.8	1874.5	1908.9	1921.8
20°	2551.9	2244.0	1804.4	1704.1	1695.5	1750.0	1797.2	1825.9	1860.2	1890.3	1890.3
22.5°	2609.2	2238.3	1757.1	1644.0	1671.2	1705.6	1748.5	1797.2	1797.2	1825.9	1827.3
25°	2680.8	2215.4	1682.7	1615.3	1635.4	1668.3	1717.0	1699.8	1718.5	1718.5	1741.4
27.5°	2762.4	2166.7	1618.2	1563.8	1603.9	1639.7	1646.9	1635.4	1613.9	1611.1	1602.5
30°	2828.3	2106.5	1571.0	1546.6	1579.5	1599.6	1576.7	1552.3	1515.1	1512.2	1492.2
32.5°	2918.5	2032.1	1512.2	1503.6	1540.9	1542.3	1535.2	1497.9	1443.5	1420.6	1397.7
35°	3070.3	1989.1	1467.8	1480.7	1492.2	1487.9	1475.0	1434.9	1380.5	1370.5	1361.9
37.5°	3182.0	1957.6	1422.0	1437.8	1447.8	1453.5	1414.9	1370.5	1371.9	1351.9	1346.1
40°	3308.0	1937.6	1384.8	1391.9	1393.4	1412.0	1364.7	1343.3	1353.3	1340.4	1349.0
42.5°	3469.9	1943.3	1346.1	1340.4	1367.6	1360.4	1337.5	1308.9	1314.6	1276.0	1281.7
45°	3555.8	1982.0	1323.2	1297.4	1327.5	1326.1	1296.0	1268.8	1234.4	1160.0	1162.8
47.5°	3613.1	1992.0	1268.8	1251.6	1283.1	1301.7	1267.4	1204.4	1155.7	1102.7	1089.8
50°	3671.8	2010.6	1243.0	1207.2	1220.1	1264.5	1221.5	1161.4	1114.1	1066.9	1074.0
52.5°	3723.3	2046.4	1192.9	1139.9	1162.8	1211.5	1188.6	1115.6	1064.0	1025.3	1013.9
55°	3952.5	2126.6	1108.4	1039.7	1094.1	1155.7	1142.8	1054.0	998.1	978.1	975.2
56°	3988.3	2129.5	1064.0	1005.3	1055.4	1137.0	1121.3	1026.8	976.7	945.2	946.6
57.5°	3994.0	2095.1	1001.0	973.8	1016.8	1109.8	1089.8	1005.3	936.6	907.9	899.3
60°	3514.2	1635.4	922.2	905.1	955.2	1026.8	1019.6	946.6	869.3	836.3	852.1
62.5°	2395.8	1198.6	860.7	857.8	883.6	953.7	935.1	869.3	804.8	783.3	773.3
65°	1394.8	909.3	800.5	789.1	810.5	847.8	860.7	791.9	724.6	710.3	706.0
67.5°	823.4	751.8	723.2	704.6	697.4	720.3	730.3	690.2	622.9	602.9	620.1
70°	688.8	668.8	670.2	638.7	621.5	605.8	597.2	561.4	505.5	479.7	472.6
72.5°	594.3	585.7	580.0	551.3	535.6	499.8	462.6	426.8	385.2	363.7	365.2
75°	454.0	451.1	454.0	439.6	412.4	383.8	349.4	303.6	272.1	244.9	250.6
77.5°	270.7	279.2	283.5	277.8	266.4	240.6	219.1	189.0	159.0	137.5	134.6
80°	186.2	193.3	200.5	193.3	181.9	163.3	140.3	117.4	95.9	84.5	81.6
82.5°	141.8	148.9	153.2	146.1	131.7	111.7	95.9	80.2	63.0	51.6	48.7
85°	51.6	58.7	57.3	68.7	74.5	71.6	61.6	47.3	35.8	25.8	24.3
87.5°	14.3	12.9	14.3	14.3	14.3	12.9	11.5	11.5	11.5	7.2	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

(END OF REPORT)