

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: P528058

Luminaire Tested: **GALN-SA3A-760-U-T2-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P528058  
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-SA3A-760-U-T2-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 5700K, 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: 11451 lumens  
Efficiency: N/A  
Efficacy: 123.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2

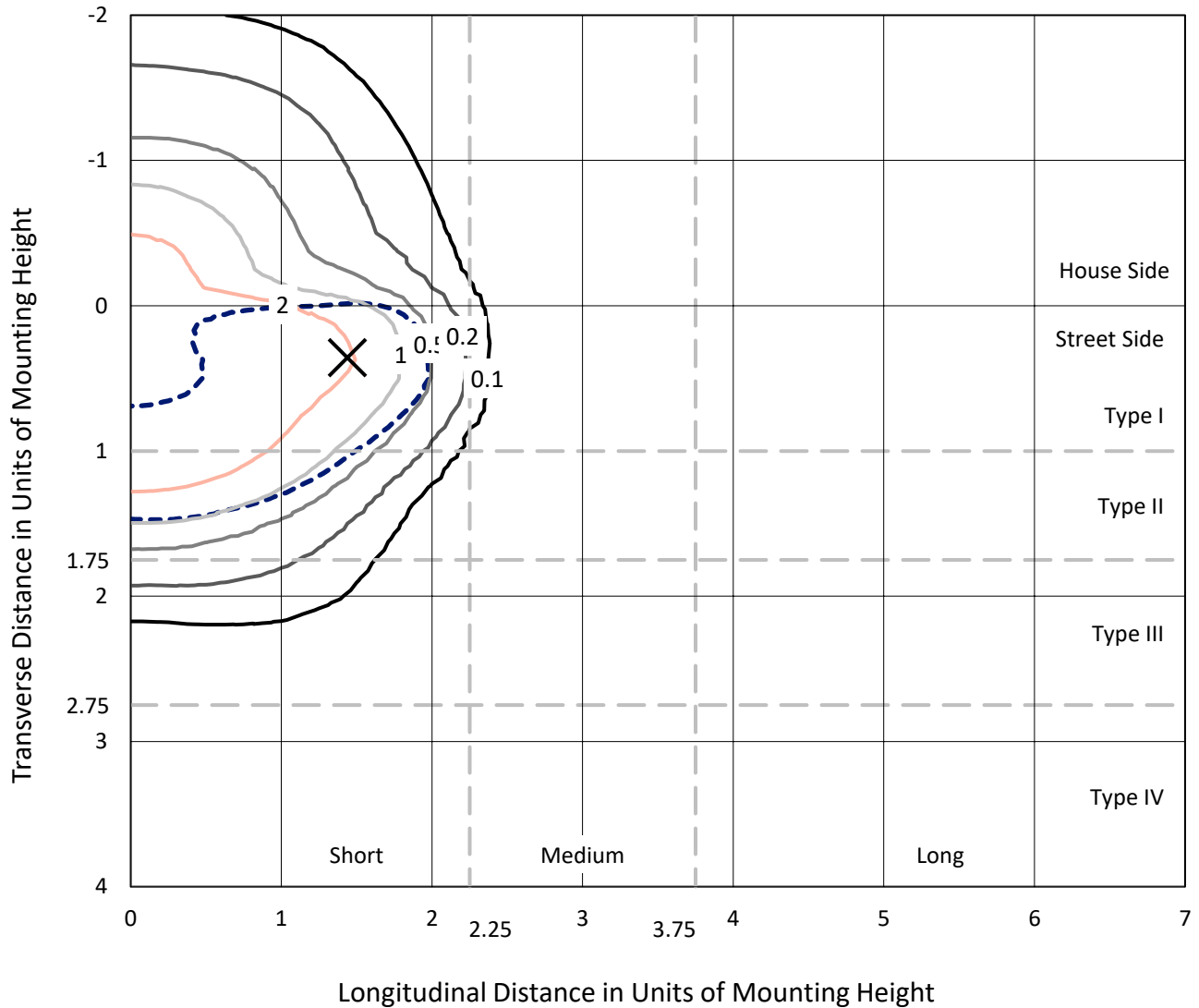
Input Watts (W): 93  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

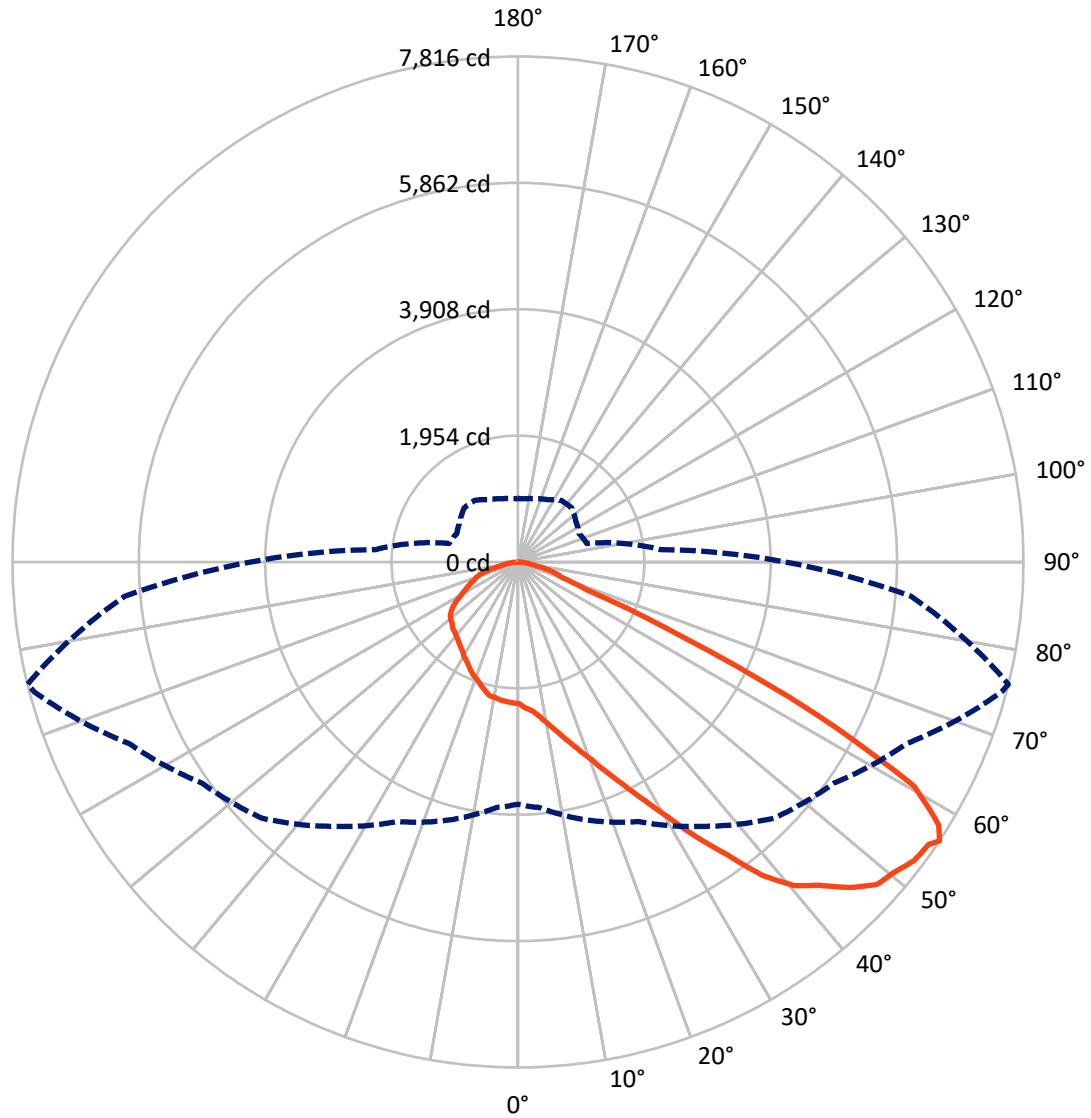
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 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
<b>House Side</b>	Lumens	3078.8	0.0	3078.8
	% Fixture	26.9	0.0	26.9
<b>Street Side</b>	Lumens	8372.2	0.0	8372.2
	% Fixture	73.1	0.0	73.1
<b>Total</b>	Lumens	11451.0	0.0	11451.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	217.3	1.9
10°-20°	682.5	6.0
20°-30°	1193.7	10.4
30°-40°	1869.0	16.3
40°-50°	2718.8	23.7
50°-60°	2988.2	26.1
60°-70°	1333.8	11.6
70°-80°	385.3	3.4
80°-90°	62.5	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°	11451.0	100.0
0°-180°	11451.0	100.0

**Coefficient of Utilization**



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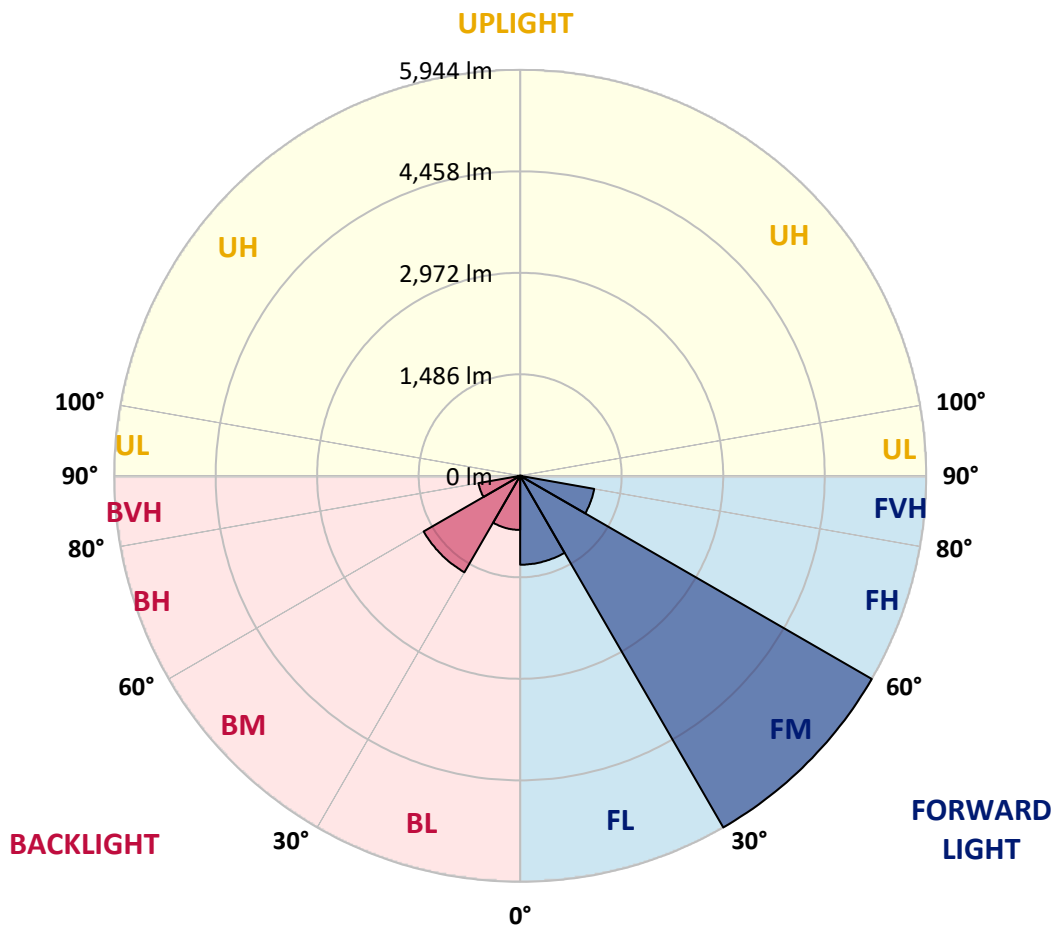
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1301.3	11.4			
FM (30°-60°)	5944.4	51.9			
FH (60°-80°)	1099.6	9.6			G1/1800
FVH (80°-90°)	26.9	0.2			G1/100
BL (0°-30°)	792.2	6.9	B2/1000		
BM (30°-60°)	1631.5	14.2	B2/2500		
BH (60°-80°)	619.5	5.4	B2/1000		G2/1000
BVH (80°-90°)	35.6	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°	76°	85°
0°	2191.0	2191.0	2191.0	2191.0	2191.0	2191.0	2191.0	2191.0	2191.0	2191.0	2191.0
2.5°	2413.7	2375.1	2372.1	2361.7	2367.6	2340.9	2312.7	2275.6	2237.0	2260.8	2204.4
5°	2582.9	2530.9	2551.7	2516.1	2520.5	2484.9	2427.0	2384.0	2336.5	2308.3	2268.2
7.5°	2642.3	2646.7	2661.6	2655.6	2625.9	2625.9	2587.3	2511.6	2428.5	2412.2	2345.4
10°	2722.4	2723.9	2707.6	2712.0	2753.6	2734.3	2700.2	2667.5	2560.6	2541.3	2422.6
12.5°	2750.6	2723.9	2750.6	2774.4	2823.4	2850.1	2842.7	2818.9	2704.6	2691.3	2517.6
15°	2755.1	2738.8	2761.0	2814.5	2857.5	2970.3	3026.7	3010.4	2859.0	2860.5	2624.5
17.5°	2734.3	2756.6	2765.5	2811.5	2910.9	3016.3	3179.6	3201.9	3077.2	3057.9	2759.5
20°	2762.5	2746.2	2758.0	2799.6	2931.7	3096.5	3310.3	3457.2	3282.0	3268.7	2899.1
22.5°	2870.9	2848.6	2845.6	2872.3	2967.4	3138.1	3448.3	3712.5	3531.4	3538.9	3072.7
25°	2955.5	2967.4	2957.0	2955.5	3014.9	3200.4	3630.9	4016.8	3869.9	3826.8	3277.6
27.5°	3101.0	3129.2	3108.4	3136.6	3123.2	3293.9	3761.5	4353.8	4235.0	4177.2	3463.1
30°	3302.8	3317.7	3298.4	3298.4	3258.3	3424.6	3880.3	4705.6	4656.6	4577.9	3681.4
32.5°	3568.5	3590.8	3552.2	3529.9	3524.0	3619.0	4094.0	5053.0	5136.1	5069.3	3970.8
35°	3920.3	3907.0	3861.0	3840.2	3760.0	3917.4	4411.7	5452.3	5670.5	5551.7	4321.1
37.5°	4230.6	4209.8	4206.8	4091.1	4110.4	4239.5	4681.9	5755.1	6188.5	6154.4	4690.8
40°	4520.1	4539.4	4570.5	4505.2	4475.5	4618.0	4996.6	5986.7	6590.8	6577.5	4975.8
42.5°	4830.3	4812.5	4867.4	4812.5	4768.0	4969.8	5338.0	6147.0	6944.1	6834.3	5274.1
45°	5280.1	5223.7	5243.0	5247.4	5214.8	5289.0	5479.0	6262.8	7192.0	7180.1	5492.3
47.5°	5655.6	5657.1	5624.5	5599.2	5499.8	5574.0	5636.3	6335.5	7477.0	7457.7	5577.0
50°	5795.2	5775.9	5870.9	5925.8	5931.7	5780.3	5759.5	6375.6	7626.9	7542.3	5661.6
52.5°	5293.4	5311.2	5461.2	5787.7	5976.3	5992.6	5903.5	6458.7	7687.8	7670.0	5729.9
55°	4260.3	4346.4	4592.8	4969.8	5416.6	5908.0	6059.4	6544.8	7720.5	7705.6	6032.7
56°	3745.2	3812.0	4132.6	4428.0	4989.1	5600.7	5961.4	6636.8	7745.7	7815.5	6103.9
57.5°	3014.9	3092.0	3322.1	3657.6	4319.7	5015.9	5691.3	6524.0	7647.7	7674.4	6155.9
60°	1885.2	1892.6	2168.7	2389.9	2856.0	3535.9	4343.4	5676.4	7077.7	7039.1	5529.5
62.5°	1236.5	1238.0	1488.9	1670.0	1882.2	2038.1	2556.2	3764.5	5222.2	5153.9	3936.7
65°	868.4	887.7	1082.1	1324.1	1410.2	1328.6	1312.2	1984.7	2916.9	2818.9	2115.3
67.5°	635.3	636.8	809.0	1068.8	1193.5	1010.9	820.9	969.3	1154.9	1151.9	979.7
70°	420.1	437.9	570.0	798.6	941.1	812.0	671.0	693.2	734.8	734.8	728.8
72.5°	244.9	261.3	348.8	506.2	528.5	507.7	531.4	593.8	620.5	619.0	611.6
75°	139.5	147.0	166.3	210.8	262.7	310.2	390.4	449.8	476.5	492.8	473.5
77.5°	81.6	86.1	98.0	120.2	136.6	167.7	212.3	253.8	289.5	285.0	288.0
80°	43.0	43.0	54.9	71.3	95.0	118.8	141.0	164.8	184.1	188.5	193.0
82.5°	25.2	26.7	35.6	52.0	68.3	84.6	108.4	124.7	142.5	144.0	147.0
85°	13.4	14.8	22.3	34.1	46.0	52.0	53.4	50.5	54.9	52.0	59.4
87.5°	4.5	4.5	7.4	5.9	5.9	7.4	8.9	8.9	11.9	11.9	11.9
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°	2191.0	2191.0	2191.0	2191.0	2191.0	2191.0	2191.0	2191.0	2191.0	2191.0	2191.0
2.5°	2202.9	2202.9	2177.6	2130.1	2122.7	2103.4	2085.6	2084.1	2070.8	2058.9	2053.0
5°	2244.4	2198.4	2161.3	2118.3	2067.8	2044.0	2017.3	1987.6	1975.8	1987.6	1986.2
7.5°	2291.9	2253.3	2142.0	2061.9	2004.0	1980.2	1950.5	1919.4	1922.3	1922.3	1901.5
10°	2338.0	2286.0	2107.9	2005.4	1920.8	1903.0	1886.7	1898.6	1913.4	1916.4	1903.0
12.5°	2415.1	2297.9	2091.5	1949.0	1895.6	1857.0	1867.4	1900.1	1931.2	1922.3	1932.7
15°	2473.0	2308.3	2017.3	1891.1	1824.4	1842.2	1879.3	1901.5	1953.5	1947.6	1957.9
17.5°	2529.4	2314.2	1944.6	1814.0	1785.8	1834.7	1862.9	1926.8	1943.1	1978.7	1992.1
20°	2645.2	2326.1	1870.4	1766.5	1757.6	1814.0	1862.9	1892.6	1928.3	1959.4	1959.4
22.5°	2704.6	2320.1	1821.4	1704.1	1732.3	1767.9	1812.5	1862.9	1862.9	1892.6	1894.1
25°	2778.8	2296.4	1744.2	1674.4	1695.2	1729.3	1779.8	1762.0	1781.3	1781.3	1805.1
27.5°	2863.4	2245.9	1677.4	1621.0	1662.5	1699.7	1707.1	1695.2	1672.9	1670.0	1661.1
30°	2931.7	2183.6	1628.4	1603.2	1637.3	1658.1	1634.3	1609.1	1570.5	1567.5	1546.8
32.5°	3025.2	2106.4	1567.5	1558.6	1597.2	1598.7	1591.3	1552.7	1496.3	1472.5	1448.8
35°	3182.6	2061.9	1521.5	1534.9	1546.8	1542.3	1529.0	1487.4	1431.0	1420.6	1411.7
37.5°	3298.4	2029.2	1474.0	1490.4	1500.7	1506.7	1466.6	1420.6	1422.1	1401.3	1395.4
40°	3429.0	2008.4	1435.4	1442.9	1444.3	1463.6	1414.7	1392.4	1402.8	1389.4	1398.3
42.5°	3596.7	2014.4	1395.4	1389.4	1417.6	1410.2	1386.4	1356.8	1362.7	1322.6	1328.6
45°	3685.8	2054.4	1371.6	1344.9	1376.1	1374.6	1343.4	1315.2	1279.6	1202.4	1205.3
47.5°	3745.2	2064.8	1315.2	1297.4	1330.0	1349.3	1313.7	1248.4	1197.9	1143.0	1129.6
50°	3806.0	2084.1	1288.5	1251.4	1264.7	1310.7	1266.2	1203.9	1154.9	1105.9	1113.3
52.5°	3859.5	2121.2	1236.5	1181.6	1205.3	1255.8	1232.1	1156.4	1102.9	1062.8	1051.0
55°	4097.0	2204.4	1148.9	1077.7	1134.1	1197.9	1184.6	1092.5	1034.6	1013.9	1010.9
56°	4134.1	2207.3	1102.9	1042.1	1094.0	1178.6	1162.3	1064.3	1012.4	979.7	981.2
57.5°	4140.0	2171.7	1037.6	1009.4	1053.9	1150.4	1129.6	1042.1	970.8	941.1	932.2
60°	3642.8	1695.2	956.0	938.2	990.1	1064.3	1056.9	981.2	901.0	866.9	883.2
62.5°	2483.4	1242.5	892.1	889.2	915.9	988.6	969.3	901.0	834.2	812.0	801.6
65°	1445.8	942.6	829.8	817.9	840.2	878.8	892.1	820.9	751.1	736.3	731.8
67.5°	853.5	779.3	749.6	730.3	722.9	746.7	757.1	715.5	645.7	624.9	642.8
70°	714.0	693.2	694.7	662.1	644.2	627.9	619.0	581.9	524.0	497.3	489.9
72.5°	616.0	607.1	601.2	571.5	555.2	518.1	479.5	442.4	399.3	377.0	378.5
75°	470.6	467.6	470.6	455.7	427.5	397.8	362.2	314.7	282.0	253.8	259.8
77.5°	280.6	289.5	293.9	288.0	276.1	249.4	227.1	195.9	164.8	142.5	139.5
80°	193.0	200.4	207.8	200.4	188.5	169.2	145.5	121.7	99.5	87.6	84.6
82.5°	147.0	154.4	158.8	151.4	136.6	115.8	99.5	83.1	65.3	53.4	50.5
85°	53.4	60.9	59.4	71.3	77.2	74.2	63.8	49.0	37.1	26.7	25.2
87.5°	14.8	13.4	14.8	14.8	14.8	13.4	11.9	11.9	11.9	7.4	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

(END OF REPORT)