

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: P528216

Luminaire Tested: **GALN-SA3B-735-U-T2R-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P528216  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA3B-735-U-T2R-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13905 lumens  
Efficiency: N/A  
Efficacy: 114.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2

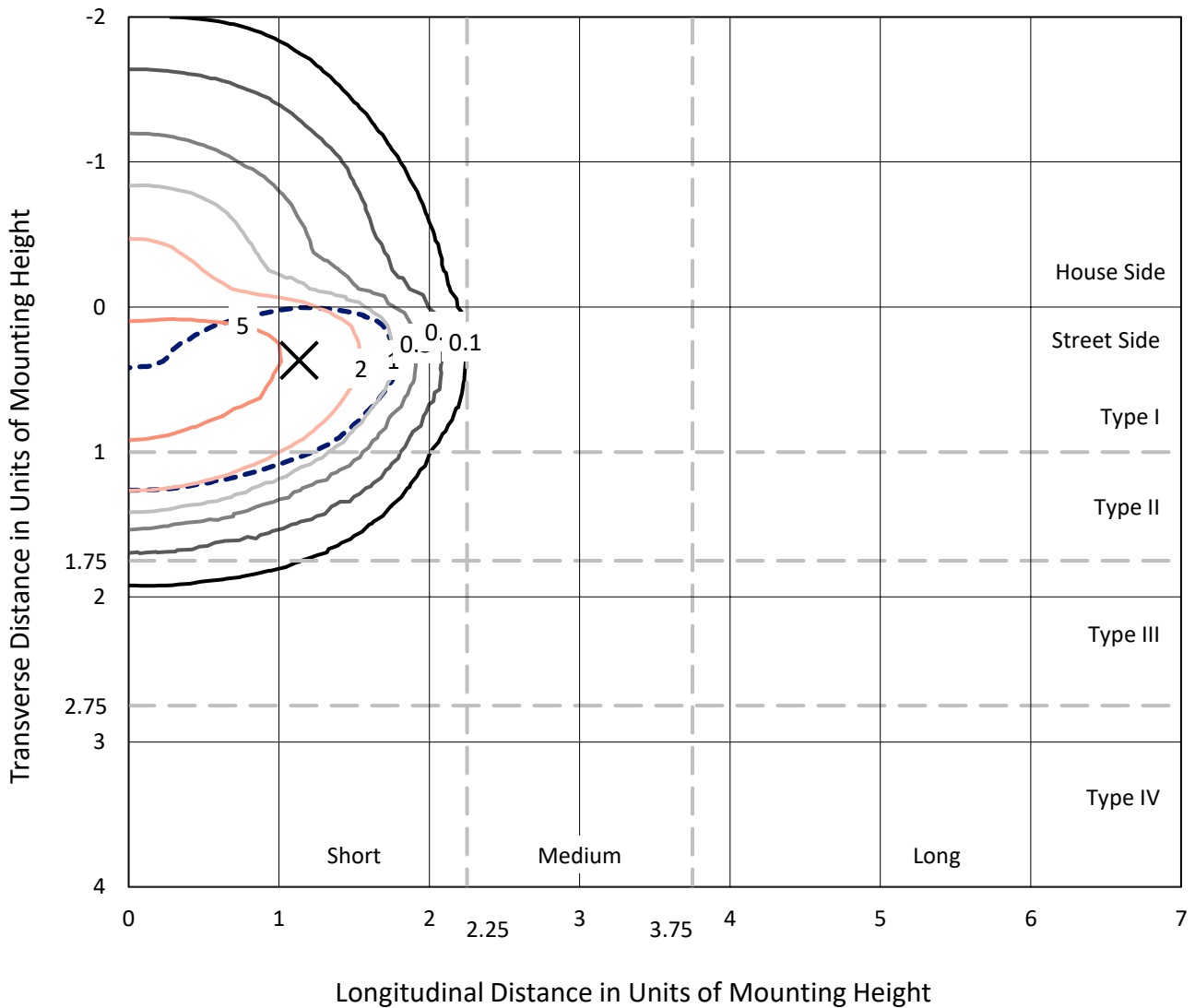
Input Watts (W): 121  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

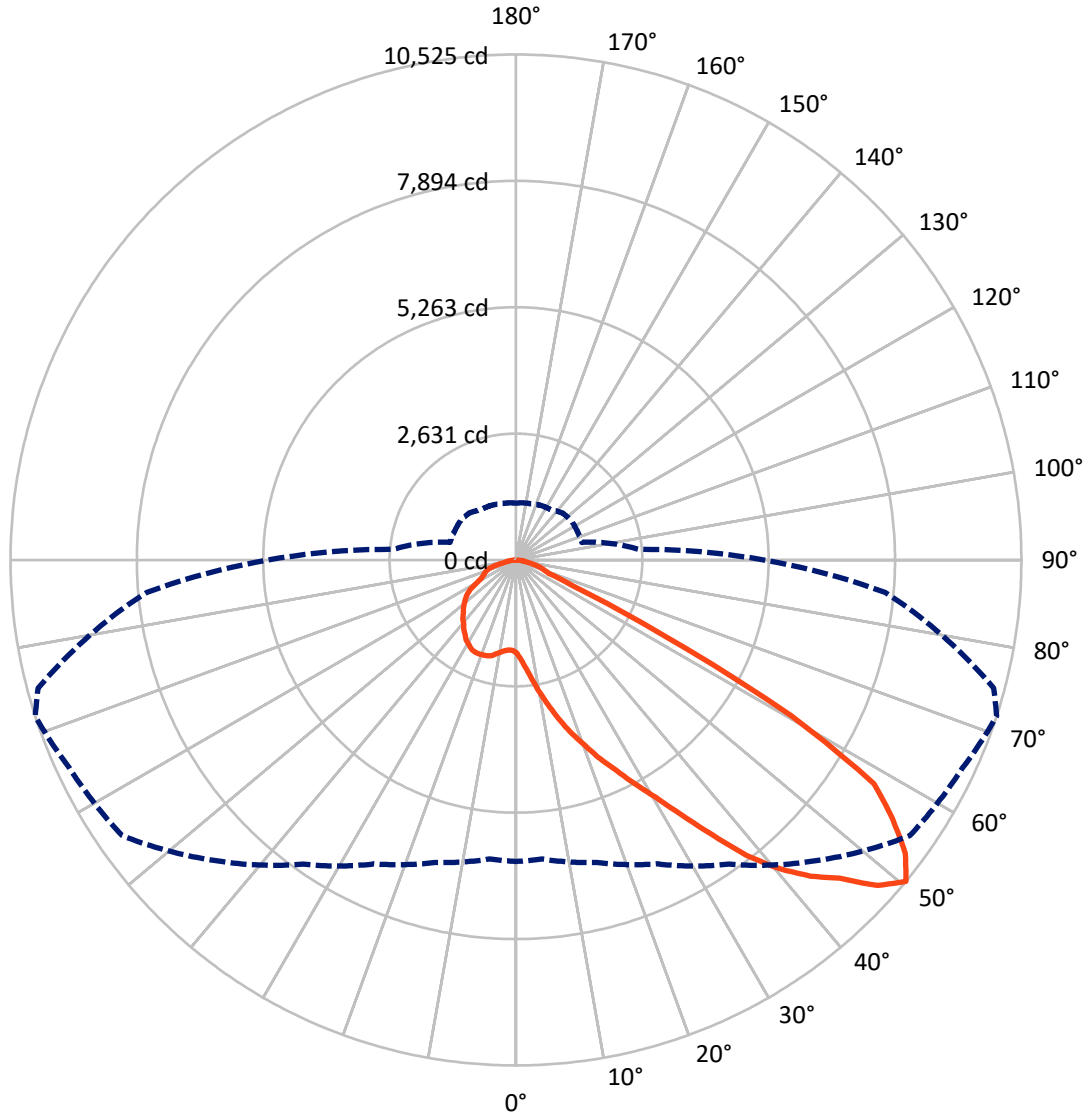
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral      - - - Horizontal Cone Through 50-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3185.7	0.0	3185.7
	% Fixture	22.9	0.0	22.9
<b>Street Side</b>	Lumens	10719.3	0.0	10719.3
	% Fixture	77.1	0.0	77.1
<b>Total</b>	Lumens	13905.0	0.0	13905.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	227.7	1.6
10°-20°	851.2	6.1
20°-30°	1650.4	11.9
30°-40°	2734.1	19.7
40°-50°	3825.6	27.5
50°-60°	3227.4	23.2
60°-70°	983.7	7.1
70°-80°	345.1	2.5
80°-90°	60.0	0.4
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°	13905.0	100.0
0°-180°	13905.0	100.0

**Coefficient of Utilization**



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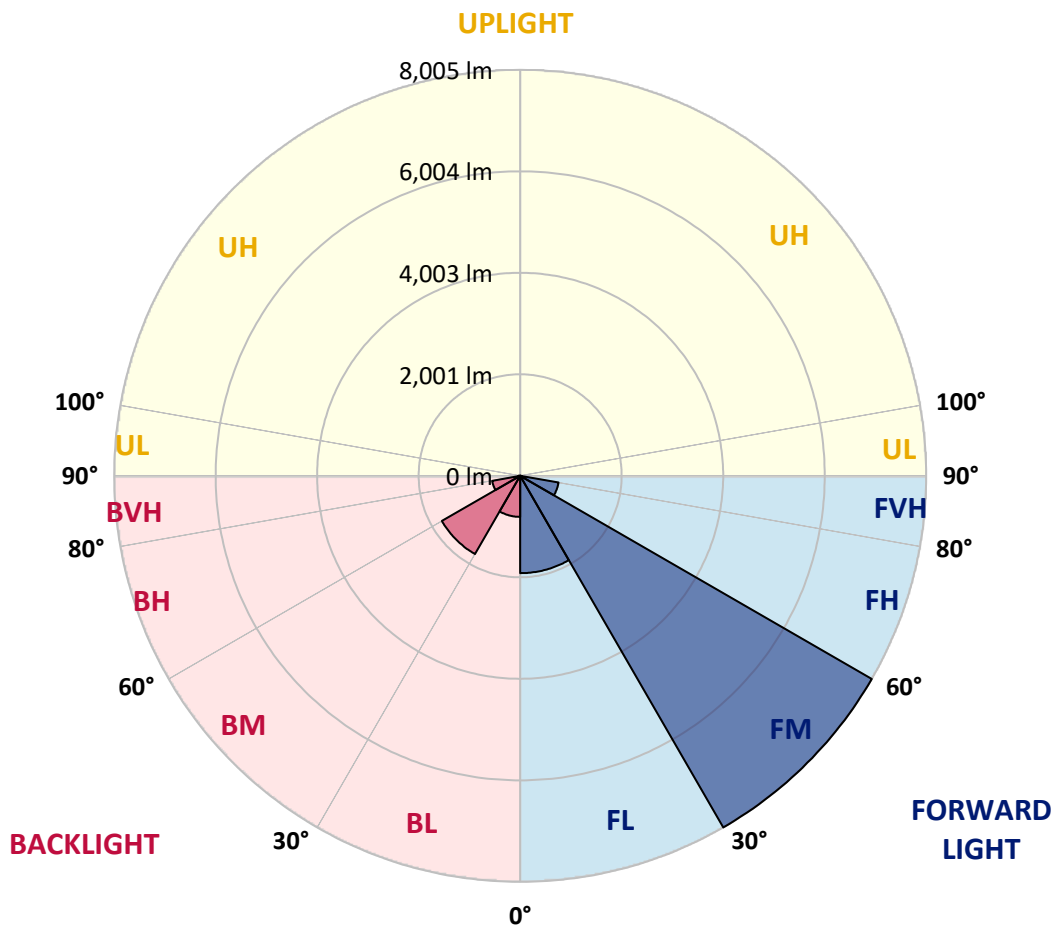
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1919.4	13.8			
FM (30°-60°)	8005.5	57.6			
FH (60°-80°)	767.5	5.5			G1/1800
FVH (80°-90°)	26.9	0.2			G1/100
BL (0°-30°)	809.8	5.8	B2/1000		
BM (30°-60°)	1781.5	12.8	B2/2500		
BH (60°-80°)	561.3	4.0	B2/1000		G2/1000
BVH (80°-90°)	33.1	0.2			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°	72°	75°	85°
0°	1935.7	1935.7	1935.7	1935.7	1935.7	1935.7	1935.7	1935.7	1935.7	1935.7	1935.7
2.5°	2489.7	2474.2	2427.8	2412.3	2357.2	2257.5	2223.0	2121.5	2078.5	2038.9	1992.5
5°	3148.7	3076.5	3071.3	2983.6	2856.2	2782.2	2562.0	2414.0	2278.1	2209.3	2081.9
7.5°	3568.6	3570.3	3570.3	3498.0	3396.5	3209.0	3011.1	2744.4	2539.6	2438.1	2221.3
10°	3967.7	3933.3	3914.4	3907.5	3838.7	3656.3	3444.7	3114.3	2833.9	2715.1	2326.3
12.5°	4249.9	4220.7	4263.7	4241.3	4191.4	4072.7	3873.1	3496.3	3145.3	2985.3	2494.9
15°	4384.1	4404.8	4439.2	4501.1	4478.8	4434.0	4213.8	3888.6	3480.8	3300.1	2644.6
17.5°	4590.6	4533.8	4575.1	4652.5	4714.5	4693.8	4568.2	4172.5	3812.9	3590.9	2845.9
20°	4735.1	4702.4	4723.1	4812.6	4859.0	4976.0	4910.6	4544.2	4131.2	3897.2	3083.3
22.5°	5148.1	5099.9	5032.8	5046.6	5063.8	5146.4	5161.9	4951.9	4501.1	4253.4	3308.7
25°	5657.4	5612.7	5533.5	5452.6	5402.7	5387.3	5440.6	5272.0	4855.6	4599.2	3551.4
27.5°	6218.3	6142.6	6092.7	5925.8	5791.6	5771.0	5745.1	5653.9	5275.4	4998.4	3824.9
30°	6763.7	6703.5	6636.4	6369.7	6230.4	6208.0	6080.7	6106.5	5731.4	5423.4	4134.6
32.5°	7176.7	7181.9	7028.7	6827.4	6696.6	6577.9	6531.5	6605.5	6316.4	6068.6	4480.5
35°	7510.5	7526.0	7379.7	7197.3	7056.3	7138.8	7118.2	7152.6	7015.0	6712.1	4883.1
37.5°	7835.7	7758.3	7601.7	7513.9	7439.9	7575.9	7751.4	7780.6	7806.4	7450.3	5351.1
40°	7889.0	7895.9	7804.7	7866.7	7773.7	7978.5	8386.3	8348.4	8453.4	8142.0	5858.7
42.5°	7813.3	7828.8	7864.9	7952.7	8176.4	8422.4	9028.1	8873.2	9000.5	8723.5	6352.5
45°	7689.4	7625.8	7670.5	8004.3	8391.5	8938.6	9614.8	9494.4	9453.1	9220.8	6941.0
47.5°	7097.5	7162.9	7302.3	7713.5	8295.1	9028.1	10031.2	10003.7	10127.6	9964.1	7476.1
50°	6276.8	6251.0	6519.4	6982.3	7732.5	8852.6	10008.8	10258.3	10525.0	10297.9	7715.2
52.5°	4700.7	4838.4	5068.9	5643.6	6713.8	7895.9	9520.2	9936.6	10153.4	10105.2	7522.5
55°	2971.5	3012.8	3152.2	3835.3	4798.8	6337.0	8160.9	9126.2	9513.3	9694.0	7345.3
57.5°	1443.6	1366.2	1536.5	2085.4	2771.9	4262.0	6294.0	7949.3	8790.6	9117.6	6959.9
60°	753.6	782.9	850.0	1046.1	1433.3	2212.7	3923.0	5297.8	6583.1	7085.5	5275.4
62.5°	624.6	634.9	679.6	777.7	953.2	1273.3	2002.8	2582.6	3356.9	3809.4	3000.8
65°	530.0	535.1	583.3	648.7	760.5	896.4	1030.6	1078.8	1305.9	1340.4	1066.8
67.5°	442.2	447.4	499.0	560.9	633.2	669.3	703.7	700.3	726.1	715.8	714.1
70°	340.7	345.8	399.2	464.6	500.7	480.1	586.7	610.8	621.1	629.7	643.5
72.5°	246.0	256.4	297.7	344.1	325.2	373.4	483.5	519.6	533.4	538.6	555.8
75°	178.9	182.4	192.7	178.9	206.5	259.8	340.7	385.4	402.6	407.8	433.6
77.5°	79.1	80.9	82.6	103.2	132.5	161.7	203.0	239.2	263.3	270.1	277.0
80°	41.3	43.0	53.3	70.5	94.6	118.7	148.0	168.6	184.1	185.8	192.7
82.5°	25.8	27.5	37.9	49.9	67.1	87.8	108.4	125.6	137.6	139.4	141.1
85°	12.0	15.5	22.4	31.0	44.7	56.8	58.5	49.9	53.3	55.1	51.6
87.5°	3.4	5.2	6.9	5.2	6.9	6.9	8.6	10.3	10.3	10.3	12.0
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°	1935.7	1935.7	1935.7	1935.7	1935.7	1935.7	1935.7	1935.7	1935.7	1935.7	1935.7
2.5°	1966.7	1951.2	1891.0	1868.6	1810.1	1820.4	1789.4	1787.7	1780.8	1779.1	1777.4
5°	2014.8	1966.7	1894.4	1839.3	1806.6	1803.2	1780.8	1780.8	1787.7	1792.9	1780.8
7.5°	2094.0	2038.9	1916.8	1865.1	1835.9	1830.7	1815.3	1803.2	1818.7	1813.5	1799.8
10°	2185.2	2088.8	1959.8	1915.0	1866.9	1854.8	1854.8	1860.0	1834.2	1842.8	1829.0
12.5°	2286.7	2157.7	2014.8	1963.2	1906.4	1899.6	1896.1	1858.3	1872.0	1865.1	1830.7
15°	2415.7	2236.8	2085.4	1997.6	1949.5	1918.5	1873.8	1866.9	1858.3	1841.1	1825.6
17.5°	2555.1	2322.8	2118.1	2008.0	1935.7	1913.3	1878.9	1842.8	1817.0	1820.4	1808.4
20°	2673.8	2402.0	2130.1	2018.3	1925.4	1882.4	1829.0	1806.6	1779.1	1777.4	1775.7
22.5°	2814.9	2508.7	2147.3	1990.8	1894.4	1849.7	1813.5	1774.0	1755.0	1730.9	1743.0
25°	2983.6	2550.0	2150.8	1975.3	1872.0	1792.9	1774.0	1730.9	1724.1	1689.6	1696.5
27.5°	3105.7	2572.3	2123.2	1927.1	1820.4	1760.2	1725.8	1694.8	1682.8	1657.0	1650.1
30°	3269.2	2606.7	2064.7	1866.9	1768.8	1701.7	1681.0	1674.2	1639.7	1612.2	1608.8
32.5°	3455.0	2629.1	2026.9	1804.9	1715.5	1663.8	1674.2	1641.5	1598.5	1574.4	1567.5
35°	3603.0	2637.7	1932.3	1734.4	1679.3	1646.6	1634.6	1627.7	1565.8	1543.4	1526.2
37.5°	3828.4	2618.8	1853.1	1684.5	1639.7	1627.7	1617.4	1570.9	1500.4	1467.7	1443.6
40°	4091.6	2613.6	1751.6	1613.9	1601.9	1615.7	1584.7	1512.4	1414.3	1378.2	1361.0
42.5°	4344.6	2649.8	1687.9	1576.1	1560.6	1565.8	1522.7	1414.3	1366.2	1345.5	1318.0
45°	4767.8	2725.5	1583.0	1517.6	1510.7	1507.3	1455.6	1342.1	1314.6	1288.7	1283.6
47.5°	5149.8	2675.6	1515.9	1457.4	1464.2	1445.3	1335.2	1299.1	1268.1	1242.3	1233.7
50°	5172.2	2556.8	1421.2	1410.9	1412.6	1379.9	1275.0	1250.9	1211.3	1194.1	1182.1
52.5°	5055.2	2362.4	1333.5	1336.9	1342.1	1288.7	1201.0	1183.8	1151.1	1127.0	1120.1
55°	4726.5	2059.6	1247.4	1261.2	1275.0	1173.5	1145.9	1102.9	1077.1	1042.7	1044.4
57.5°	4163.9	1658.7	1127.0	1149.4	1178.6	1066.8	1046.1	992.8	954.9	927.4	924.0
60°	2790.8	1180.3	946.3	954.9	1020.3	975.6	973.9	920.5	868.9	844.8	831.1
62.5°	1646.6	901.6	817.3	808.7	807.0	832.8	875.8	856.9	789.8	743.3	757.1
65°	862.0	779.4	760.5	731.3	714.1	707.2	739.9	748.5	703.7	653.8	650.4
67.5°	724.4	724.4	708.9	698.6	674.5	645.2	624.6	597.1	590.2	576.4	559.2
70°	659.0	676.2	671.0	647.0	626.3	593.6	540.3	495.5	452.5	437.0	447.4
72.5°	574.7	591.9	591.9	579.8	552.3	502.4	450.8	399.2	363.1	335.5	332.1
75°	442.2	450.8	471.4	457.7	421.6	390.6	337.2	283.9	249.5	223.7	218.5
77.5°	282.2	295.9	295.9	294.2	268.4	239.2	204.8	166.9	141.1	122.2	117.0
80°	187.5	196.2	203.0	196.2	178.9	156.6	130.8	105.0	86.0	70.5	67.1
82.5°	137.6	148.0	153.1	146.3	129.0	111.8	92.9	74.0	55.1	43.0	39.6
85°	53.3	55.1	61.9	74.0	72.3	70.5	56.8	41.3	31.0	22.4	20.6
87.5°	13.8	12.0	13.8	13.8	12.0	10.3	10.3	10.3	10.3	5.2	6.9
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)