

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: P648348

Luminaire Tested: **GALN-SA3B-835-U-T3**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P648348  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA3B-835-U-T3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13189.6 lumens  
Efficiency: N/A  
Efficacy: 109.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G2

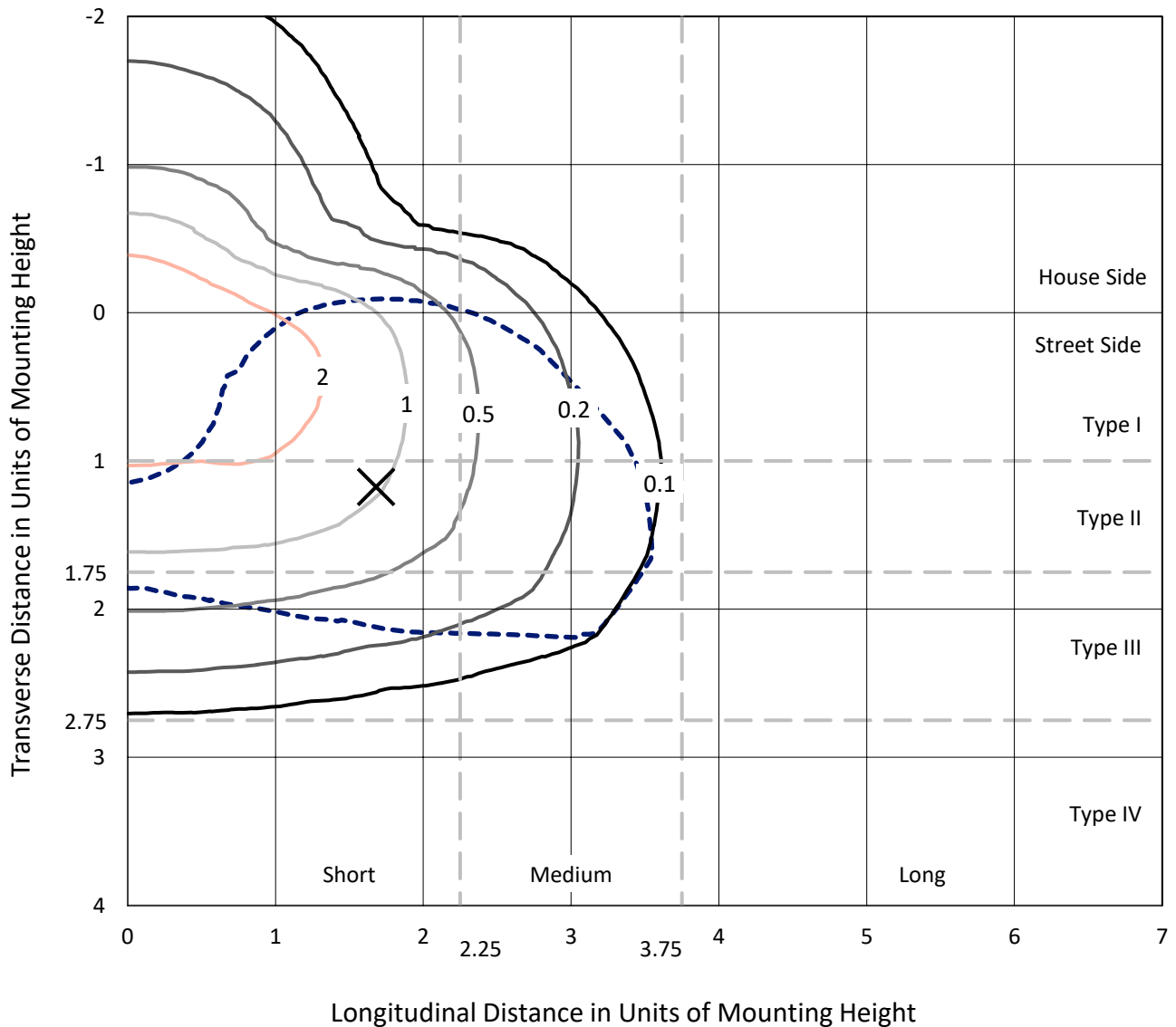
Input Watts (W): 121  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

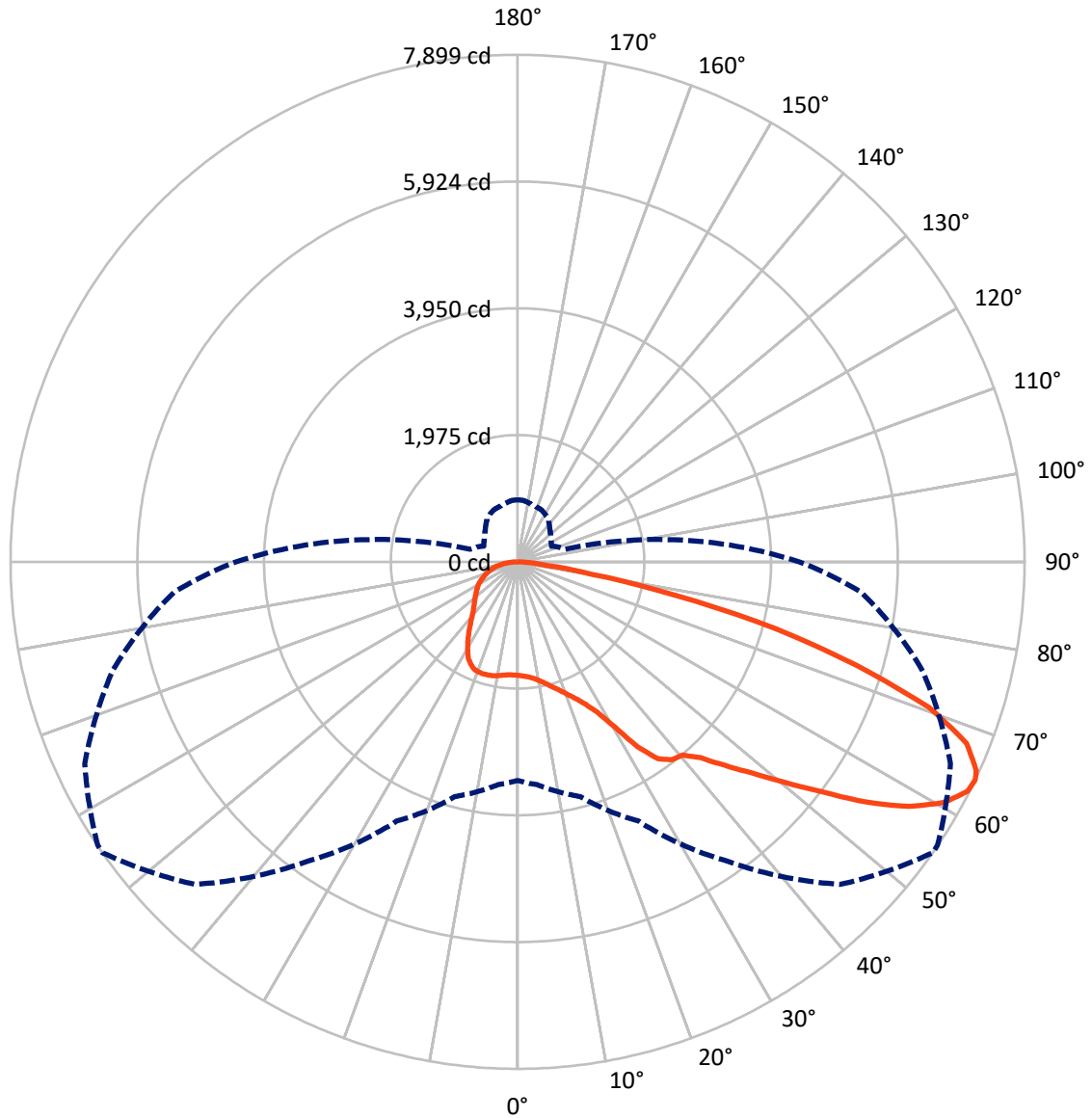
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral      - - - Horizontal Cone Through 64-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3204.0	0.0	3204.0
	% Fixture	24.3	0.0	24.3
<b>Street Side</b>	Lumens	9985.6	0.0	9985.6
	% Fixture	75.7	0.0	75.7
<b>Total</b>	Lumens	13189.6	0.0	13189.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	172.1	1.3
10°-20°	543.2	4.1
20°-30°	967.0	7.3
30°-40°	1487.8	11.3
40°-50°	2109.0	16.0
50°-60°	3052.8	23.1
60°-70°	3159.3	24.0
70°-80°	1479.5	11.2
80°-90°	219.0	1.7
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°	13189.6	100.0
0°-180°	13189.6	100.0

**Coefficient of Utilization**



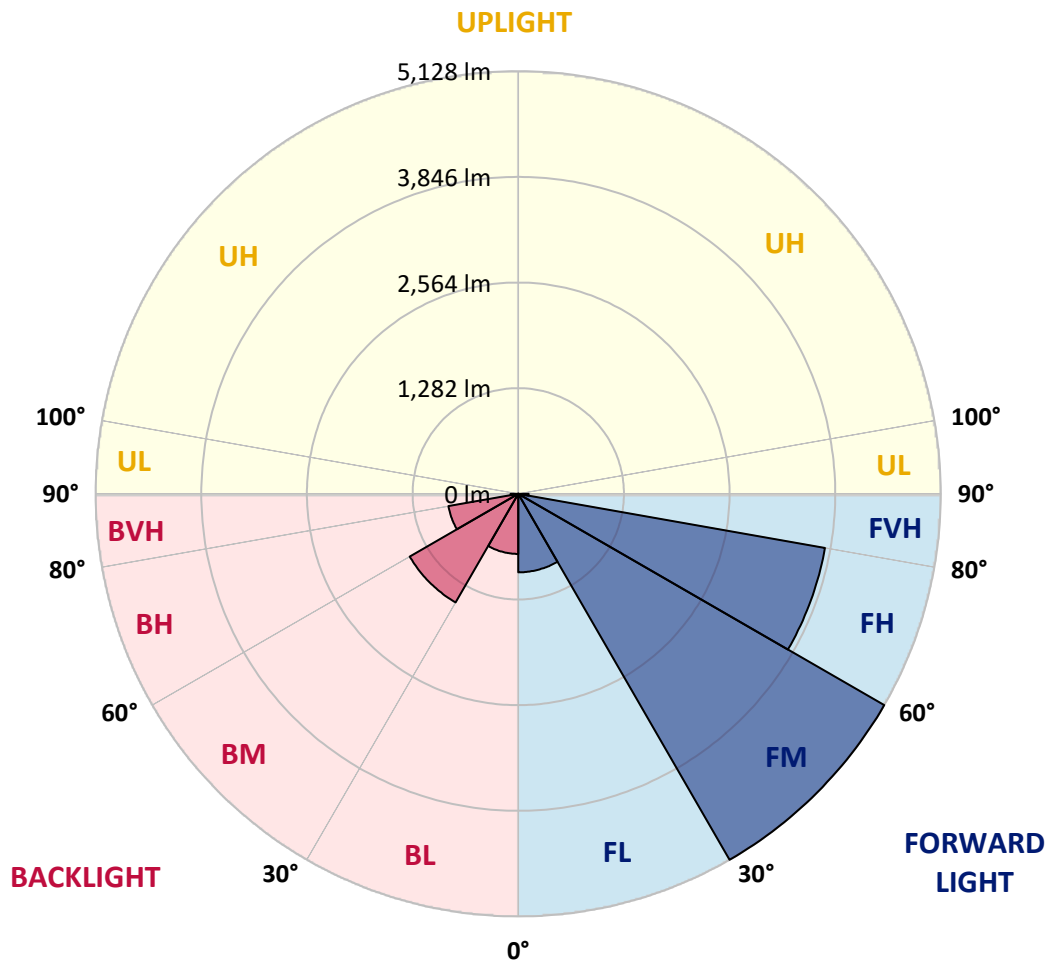
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	952.5	7.2			
FM	(30°-60°)	5128.5	38.9			
FH	(60°-80°)	3779.2	28.7			G2/5000
FVH	(80°-90°)	125.4	1.0			G2/225
BL	(0°-30°)	729.8	5.5	B2/1000		
BM	(30°-60°)	1521.1	11.5	B2/2500		
BH	(60°-80°)	859.6	6.5	B2/1000		G2/1000
BVH	(80°-90°)	93.6	0.7			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 III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	1769.7	1769.7	1769.7	1769.7	1769.7	1769.7	1769.7	1769.7	1769.7	1769.7	1769.7
2.5°	1789.5	1788.8	1791.0	1788.8	1790.3	1785.1	1782.9	1784.4	1782.2	1778.5	1771.9
5°	1811.5	1810.8	1811.5	1808.7	1810.1	1807.2	1802.0	1803.5	1799.8	1791.7	1782.2
7.5°	1849.1	1846.1	1846.1	1845.4	1842.4	1838.0	1834.3	1832.8	1829.2	1818.9	1804.2
10°	1897.6	1897.6	1898.3	1892.4	1896.1	1888.0	1884.4	1883.6	1871.1	1857.9	1837.3
12.5°	1961.6	1965.3	1963.0	1960.1	1958.6	1955.6	1943.2	1946.1	1932.1	1909.3	1884.4
15°	2041.0	2046.8	2043.2	2041.7	2038.0	2027.0	2021.9	2019.6	2001.3	1968.1	1935.1
17.5°	2146.0	2138.8	2135.8	2132.1	2116.7	2108.6	2099.8	2098.3	2082.2	2043.2	1991.7
20°	2238.0	2248.3	2242.4	2238.8	2223.3	2207.8	2201.2	2199.0	2185.0	2142.4	2060.1
22.5°	2347.5	2349.7	2352.0	2343.1	2335.8	2324.0	2312.2	2308.6	2303.4	2259.3	2158.6
25°	2464.4	2473.3	2465.9	2457.1	2448.3	2447.5	2458.5	2457.1	2454.9	2412.2	2289.4
27.5°	2654.8	2662.9	2665.2	2655.5	2621.8	2624.7	2649.7	2657.8	2691.6	2621.0	2457.8
30°	2762.2	2770.3	2788.7	2824.7	2878.4	2925.4	2985.7	3004.1	3036.4	2903.4	2657.8
32.5°	2828.4	2831.3	2864.4	2931.3	3092.3	3268.0	3432.0	3438.5	3459.1	3272.4	2840.9
35°	2932.7	2935.0	2961.5	3035.0	3223.9	3516.5	3770.1	3778.2	3761.3	3387.1	2926.1
37.5°	3061.5	3067.3	3084.2	3145.2	3371.0	3724.6	3910.6	3904.7	3754.7	3478.2	3076.9
40°	3248.9	3248.9	3229.0	3311.4	3526.1	3843.7	3959.9	3949.5	3909.8	3742.2	3306.2
42.5°	3414.3	3411.4	3458.4	3514.3	3720.2	4027.5	4166.4	4183.3	4248.8	4073.8	3567.3
45°	3629.8	3643.0	3669.5	3770.9	4050.3	4341.4	4520.8	4537.0	4629.6	4464.2	3872.3
47.5°	3847.3	3851.7	3934.8	4070.1	4459.0	4767.1	4914.1	4940.6	5025.1	4920.8	4201.0
50°	4001.8	4043.6	4176.8	4390.0	4880.4	5286.2	5400.8	5432.5	5581.7	5417.7	4584.1
52.5°	4164.9	4206.1	4368.6	4693.6	5364.1	5817.0	5958.2	5979.5	6134.6	5920.7	4975.9
55°	4304.6	4342.9	4527.5	4962.7	5749.3	6358.8	6614.7	6589.7	6664.0	6308.1	5278.0
57.5°	4327.5	4358.3	4590.7	5134.7	6039.0	6823.5	7190.4	7205.1	7119.0	6597.8	5527.3
60°	4151.0	4214.3	4481.1	5116.4	6169.2	7147.0	7619.7	7630.0	7385.9	6746.2	5626.6
62.5°	3838.5	3831.9	4154.7	4820.8	5986.8	7220.5	7872.6	7861.6	7490.3	6675.0	5530.3
64°	3407.0	3486.4	3787.8	4457.5	5692.7	7107.3	7899.1	7893.2	7440.3	6526.5	5366.3
65°	3143.7	3139.4	3437.1	4160.5	5400.1	6936.7	7852.1	7843.9	7335.9	6393.4	5239.1
67.5°	2269.6	2279.9	2574.0	3210.7	4390.0	6269.9	7545.5	7515.3	6924.2	5952.3	4755.3
70°	1374.9	1380.7	1611.6	2129.9	3151.1	5068.5	6801.5	6802.9	6294.1	5293.5	4047.3
72.5°	724.2	739.6	832.3	1209.4	1913.7	3556.2	5517.7	5648.6	5403.8	4517.8	3197.5
75°	402.9	405.1	470.5	596.3	976.3	1990.2	4147.3	4184.8	4278.2	3636.3	2364.4
77.5°	307.3	311.7	332.3	385.2	531.6	922.7	2510.0	2698.2	3015.1	2563.7	1349.1
80°	249.2	253.6	271.3	302.9	353.6	437.5	1166.0	1267.5	1613.8	1138.1	526.4
82.5°	194.1	191.1	213.9	234.5	257.3	258.8	478.6	529.4	657.3	489.7	227.9
85°	144.1	144.1	162.5	158.1	166.2	151.4	211.0	233.1	263.2	208.0	105.9
87.5°	57.3	63.3	106.6	95.6	74.2	59.6	77.9	82.4	91.1	81.6	44.1
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°	1769.7	1769.7	1769.7	1769.7	1769.7	1769.7	1769.7	1769.7	1769.7	1769.7	1769.7
2.5°	1772.6	1774.8	1769.7	1766.0	1764.5	1762.3	1760.1	1760.8	1763.8	1766.7	1766.0
5°	1781.4	1782.2	1773.3	1769.0	1766.0	1763.0	1763.0	1765.3	1771.1	1775.5	1775.5
7.5°	1803.5	1803.5	1791.0	1782.9	1778.5	1773.3	1771.9	1772.6	1777.0	1782.9	1783.6
10°	1838.0	1835.1	1818.9	1806.4	1798.3	1785.8	1774.8	1769.0	1771.1	1774.8	1774.8
12.5°	1879.9	1871.8	1851.2	1834.3	1814.5	1791.0	1768.2	1756.4	1755.7	1759.3	1757.9
15°	1924.8	1915.9	1887.3	1856.4	1821.9	1787.3	1760.1	1743.2	1730.0	1726.3	1734.3
17.5°	1977.0	1958.6	1918.9	1876.2	1824.8	1779.9	1737.3	1702.7	1679.2	1672.6	1674.8
20°	2040.2	2015.9	1962.3	1895.4	1822.6	1753.5	1687.3	1641.0	1602.7	1591.0	1592.5
22.5°	2127.7	2085.8	2007.1	1905.0	1804.2	1703.5	1611.6	1551.3	1505.0	1486.6	1497.6
25°	2226.9	2181.4	2049.7	1902.7	1756.4	1623.3	1521.9	1443.2	1401.3	1374.1	1380.0
27.5°	2363.7	2282.8	2095.4	1882.9	1688.1	1525.6	1407.9	1333.7	1295.5	1281.5	1288.1
30°	2538.6	2414.5	2144.6	1829.2	1579.9	1402.0	1293.2	1244.7	1221.9	1204.3	1210.1
32.5°	2665.2	2507.1	2155.6	1738.8	1463.0	1289.5	1215.3	1179.3	1154.3	1137.4	1141.1
35°	2755.5	2585.7	2150.5	1627.8	1341.0	1196.9	1153.5	1124.2	1083.7	1046.9	1040.3
37.5°	2876.9	2684.3	2113.0	1506.4	1220.5	1134.4	1103.6	1049.1	991.0	941.8	939.6
40°	3062.9	2799.7	2032.8	1363.8	1117.5	1088.1	1050.6	980.0	917.5	877.8	874.9
42.5°	3254.8	2906.3	1924.1	1213.8	1032.9	1039.6	994.0	924.2	886.0	860.2	857.2
45°	3489.3	3021.7	1806.4	1083.7	970.5	994.0	944.8	904.3	881.5	864.6	860.2
47.5°	3743.0	3140.1	1674.1	966.8	917.5	952.1	924.2	905.8	893.2	881.5	876.3
50°	4016.5	3272.4	1549.8	872.7	869.8	908.7	922.0	915.3	908.0	904.3	899.9
52.5°	4316.4	3407.7	1445.4	806.5	827.9	877.8	922.7	927.9	927.9	925.7	922.7
55°	4519.3	3501.8	1339.6	752.9	785.2	852.8	921.2	941.1	948.4	945.5	942.6
57.5°	4669.3	3553.3	1206.4	706.5	749.2	828.6	913.1	942.6	949.9	953.5	952.1
60°	4700.2	3505.5	1032.2	658.0	710.2	793.3	883.7	920.5	930.0	952.8	955.0
62.5°	4561.2	3358.4	858.7	610.2	662.4	739.6	844.0	895.5	914.6	949.9	953.5
64°	4390.7	3193.8	762.4	580.0	631.6	709.5	824.2	888.9	913.8	960.9	963.9
65°	4265.7	3073.9	702.1	560.9	611.7	689.6	813.1	891.1	920.5	977.8	982.3
67.5°	3805.5	2661.5	580.8	516.2	564.6	655.8	815.3	909.5	919.0	984.5	983.7
70°	3148.9	2118.9	486.7	475.0	519.1	628.6	806.5	880.0	880.8	924.2	913.8
72.5°	2357.8	1566.0	422.0	432.3	468.3	563.9	761.7	840.3	827.9	833.7	823.4
75°	1619.6	1035.9	363.2	386.7	415.4	498.5	698.4	763.1	743.3	735.9	728.6
77.5°	864.6	572.8	302.2	341.9	361.0	430.8	609.5	672.0	651.4	622.7	613.2
80°	349.9	269.8	243.4	283.1	294.1	347.0	507.3	546.3	530.8	480.8	464.6
82.5°	175.7	161.8	191.1	222.8	223.5	247.7	377.2	413.9	379.4	318.4	304.4
85°	91.9	94.8	131.6	156.6	138.2	133.8	226.4	250.7	230.1	200.0	180.1
87.5°	33.1	38.2	69.1	68.4	48.5	25.8	50.0	24.3	13.2	8.1	10.3
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)