

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: P529257

Luminaire Tested: **GALN-SA4B-827-U-T3-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P529257  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA4B-827-U-T3-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9881 lumens  
Efficiency: N/A  
Efficacy: 60.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1

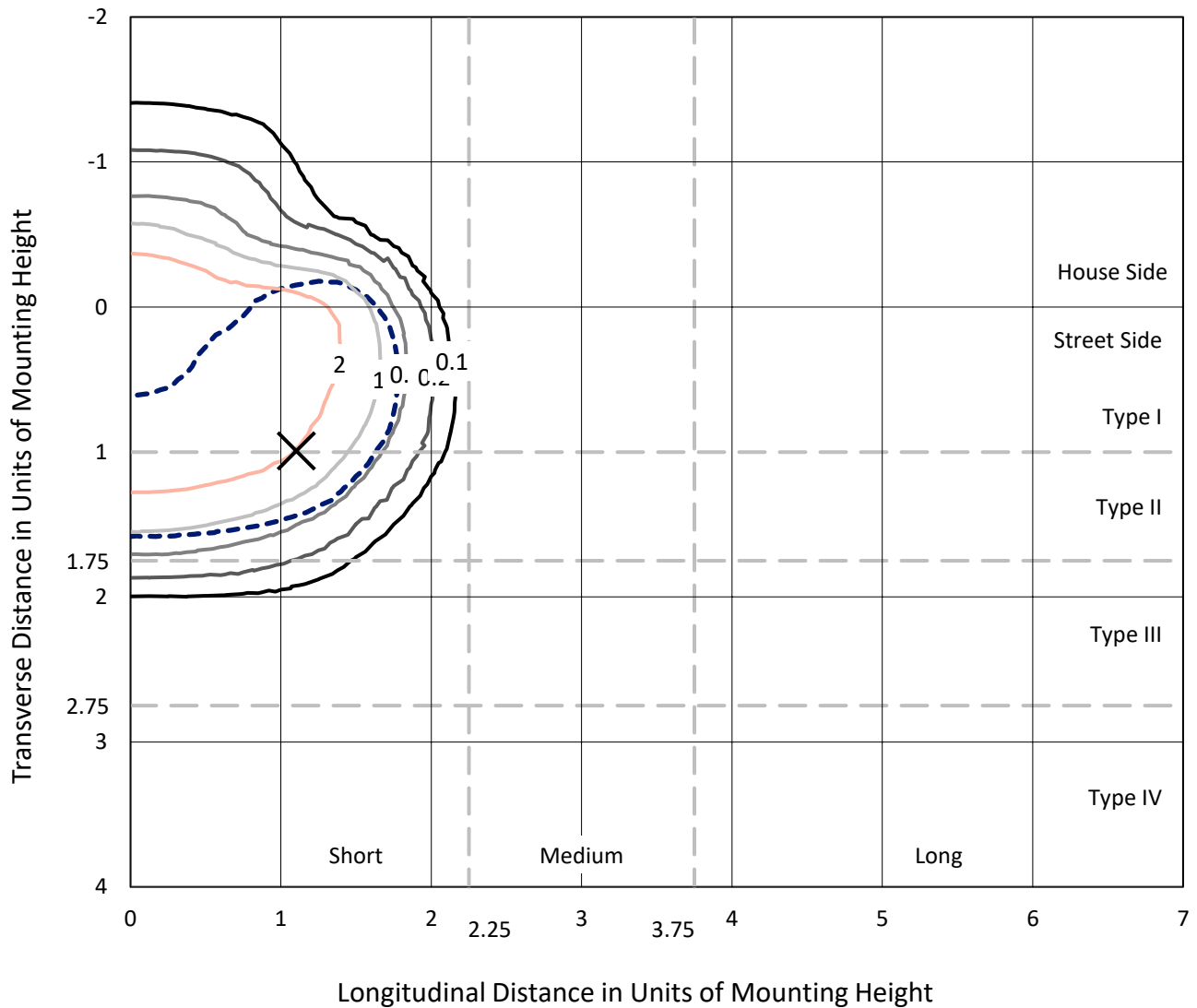
Input Watts (W): 164  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

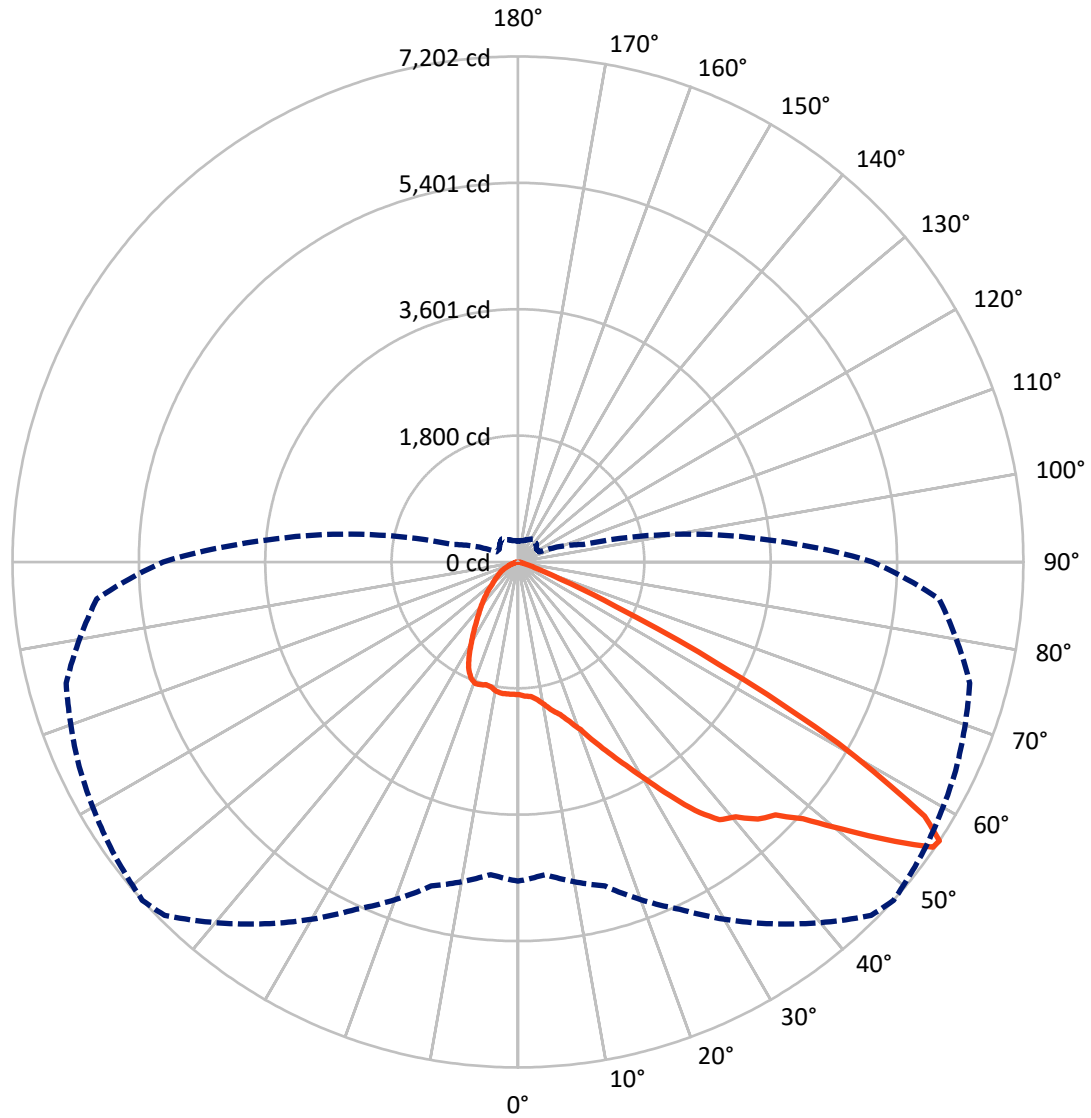
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 48-Deg Lateral    - - - Horizontal Cone Through 56-Deg Vertical

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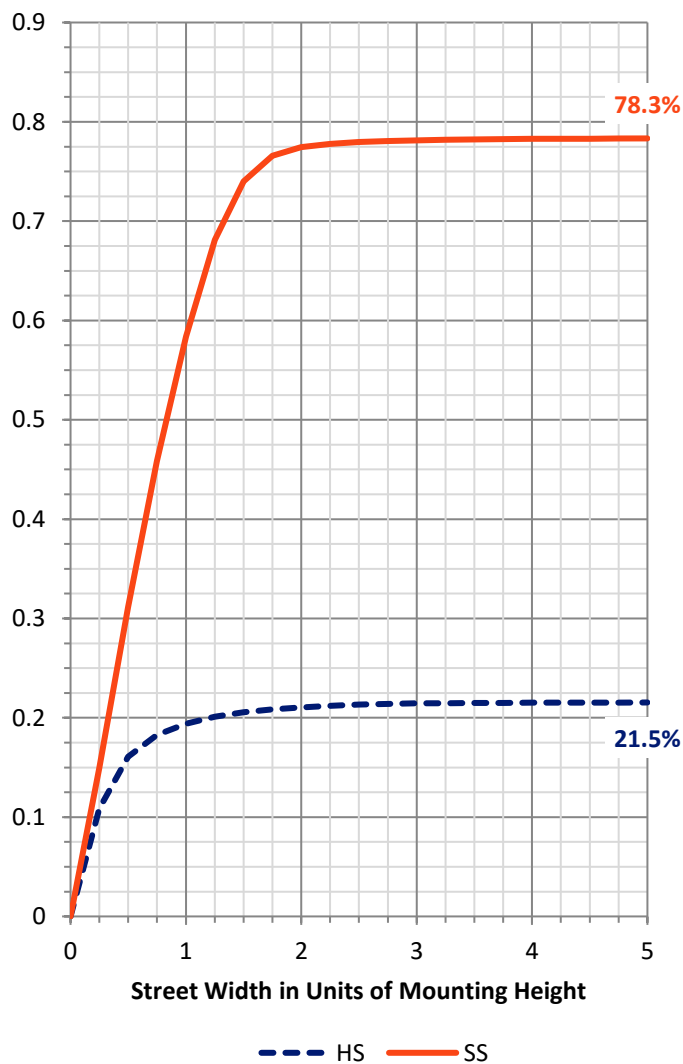
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2148.9	0.0	2148.9
	% Fixture	21.7	0.0	21.7
<b>Street Side</b>	Lumens	7732.1	0.0	7732.1
	% Fixture	78.3	0.0	78.3
<b>Total</b>	Lumens	9881.0	0.0	9881.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	183.8	1.9
10°-20°	587.5	5.9
20°-30°	1065.7	10.8
30°-40°	1673.9	16.9
40°-50°	2442.0	24.7
50°-60°	2942.1	29.8
60°-70°	861.4	8.7
70°-80°	109.3	1.1
80°-90°	15.3	0.2
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°	9881.0	100.0
0°-180°	9881.0	100.0

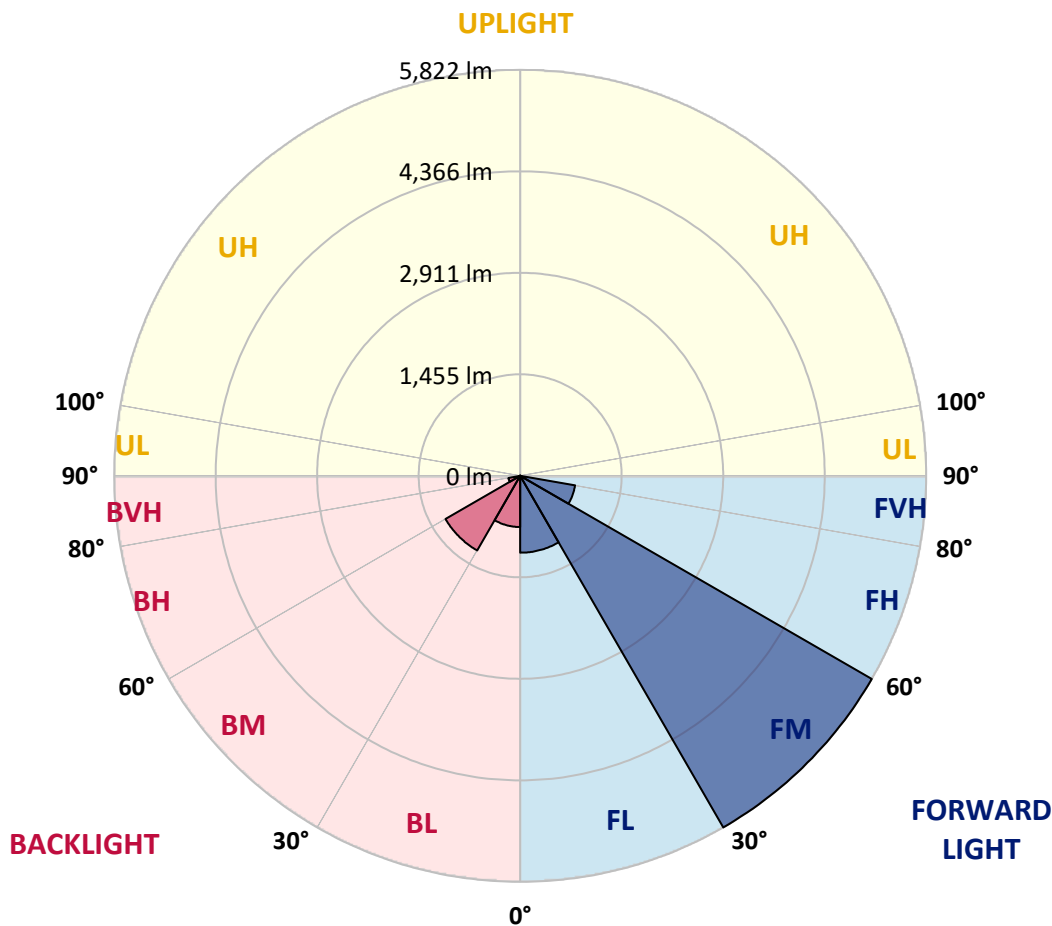


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1102.5	11.2			
FM (30°-60°)	5821.9	58.9			
FH (60°-80°)	799.9	8.1			G1/1800
FVH (80°-90°)	7.7	0.1			G0/10
BL (0°-30°)	734.5	7.4	B2/1000		
BM (30°-60°)	1236.1	12.5	B2/2500		
BH (60°-80°)	170.8	1.7	B1/500		G1/500
BVH (80°-90°)	7.6	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G1**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	48°	55°	65°	75°	85°
0°	1887.3	1887.3	1887.3	1887.3	1887.3	1887.3	1887.3	1887.3	1887.3	1887.3	1887.3
2.5°	1921.5	1912.5	1912.5	1898.1	1914.3	1907.1	1912.5	1894.5	1912.5	1885.5	1907.1
5°	1930.5	1932.3	1925.1	1934.1	1934.1	1944.8	1926.9	1943.0	1952.0	1932.3	1923.3
7.5°	1977.2	1980.8	1979.0	1971.8	1986.2	1984.4	1982.6	1970.0	1973.6	1966.4	1955.6
10°	2069.0	2067.2	2076.2	2058.2	2047.4	2060.0	2063.6	2043.8	2029.4	2024.0	1989.8
12.5°	2202.1	2180.5	2167.9	2149.9	2155.3	2137.4	2169.7	2135.6	2128.4	2096.0	2061.8
15°	2310.1	2306.5	2308.3	2279.5	2247.1	2254.3	2254.3	2236.3	2225.5	2185.9	2137.4
17.5°	2531.4	2455.8	2472.0	2436.0	2409.0	2407.2	2391.0	2394.6	2365.8	2283.1	2209.3
20°	2704.1	2671.7	2646.5	2585.3	2544.0	2556.5	2549.4	2531.4	2522.4	2414.4	2310.1
22.5°	2858.8	2869.6	2828.2	2812.0	2754.5	2759.8	2774.2	2758.0	2689.7	2578.1	2423.4
25°	3076.5	3063.9	3008.1	2988.3	2934.4	2954.2	3009.9	2997.3	2954.2	2752.7	2511.6
27.5°	3333.8	3290.6	3301.4	3211.4	3159.3	3215.0	3281.6	3344.6	3222.2	2957.8	2615.9
30°	3515.5	3470.5	3466.9	3463.3	3450.7	3515.5	3592.8	3650.4	3551.5	3162.9	2788.6
32.5°	3605.4	3616.2	3646.8	3636.0	3745.8	3878.9	3959.9	4042.6	3918.5	3497.5	3017.1
35°	3844.7	3776.3	3844.7	3851.9	3965.3	4247.7	4350.3	4548.2	4517.6	3970.7	3296.0
37.5°	3985.0	3979.7	3988.6	4057.0	4166.8	4515.8	4661.5	4814.4	4756.9	4254.9	3643.2
40°	4217.1	4231.5	4229.7	4281.9	4402.4	4717.3	4776.7	4900.8	4906.2	4648.9	4154.2
42.5°	4589.6	4532.0	4494.2	4548.2	4717.3	4891.8	5010.5	4985.4	5163.5	5127.5	4810.8
45°	4924.2	4958.4	4902.6	4992.6	5053.7	5147.3	5143.7	5197.7	5424.3	5595.3	5305.6
47.5°	5237.2	5258.8	5285.8	5347.0	5480.1	5494.5	5463.9	5440.5	5753.6	5929.9	5688.8
50°	5424.3	5444.1	5570.1	5679.8	5928.1	5960.5	5978.5	5919.1	6131.4	6151.2	6050.4
52.5°	5374.0	5395.6	5571.9	5933.5	6329.3	6626.2	6572.2	6471.4	6458.8	6536.2	6385.1
55°	4927.8	4908.0	5150.9	5714.0	6455.2	7167.7	7174.9	7068.7	6865.4	6813.3	6334.7
56°	4548.2	4470.8	4780.3	5460.3	6293.3	7120.9	7201.9	7088.5	6897.8	6663.9	6023.4
57.5°	3726.0	3799.7	4107.4	4670.5	5733.8	6784.5	6831.3	6804.3	6660.3	6268.1	5300.2
60°	2054.6	2184.1	2455.8	3144.9	4082.2	5206.6	5244.4	5463.9	5490.9	4800.0	3646.8
62.5°	872.6	858.2	1140.6	1648.0	2324.5	3143.1	3213.2	3438.1	3479.5	2767.0	1829.7
65°	354.4	374.2	516.3	829.4	1228.8	1432.1	1531.0	1604.8	1741.5	1142.4	674.7
67.5°	233.9	232.1	304.1	473.2	662.1	638.7	638.7	674.7	624.3	466.0	291.5
70°	167.3	172.7	217.7	327.4	412.0	305.9	293.3	280.7	318.4	307.6	235.7
72.5°	109.7	116.9	145.7	196.1	214.1	167.3	167.3	201.5	262.7	248.3	192.5
75°	72.0	73.8	90.0	113.3	106.1	86.4	95.4	134.9	190.7	183.5	136.7
77.5°	48.6	50.4	61.2	73.8	59.4	48.6	52.2	68.4	93.6	93.6	72.0
80°	18.0	19.8	25.2	23.4	27.0	34.2	37.8	46.8	55.8	55.8	48.6
82.5°	0.0	1.8	5.4	12.6	19.8	27.0	30.6	36.0	41.4	46.8	45.0
85°	0.0	1.8	5.4	9.0	14.4	16.2	18.0	12.6	10.8	10.8	9.0
87.5°	0.0	0.0	1.8	1.8	1.8	1.8	1.8	1.8	3.6	1.8	1.8
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°	1887.3	1887.3	1887.3	1887.3	1887.3	1887.3	1887.3	1887.3	1887.3	1887.3	1887.3
2.5°	1887.3	1885.5	1885.5	1880.1	1890.9	1885.5	1889.1	1887.3	1863.9	1881.9	1869.3
5°	1907.1	1919.7	1899.9	1896.3	1881.9	1887.3	1887.3	1869.3	1885.5	1883.7	1880.1
7.5°	1957.4	1935.9	1914.3	1892.7	1889.1	1883.7	1863.9	1856.7	1869.3	1854.9	1876.5
10°	1979.0	1982.6	1950.2	1921.5	1894.5	1856.7	1829.7	1813.5	1793.7	1815.3	1827.9
12.5°	2078.0	2042.0	1986.2	1941.2	1849.5	1811.7	1784.7	1777.5	1811.7	1818.9	1806.3
15°	2112.2	2106.8	2034.8	1934.1	1838.7	1793.7	1799.1	1784.7	1788.3	1770.3	1773.9
17.5°	2182.3	2121.2	2036.6	1910.7	1836.9	1826.1	1793.7	1736.1	1703.8	1689.4	1702.0
20°	2259.7	2200.3	2078.0	1919.7	1853.1	1824.3	1718.2	1648.0	1581.4	1545.4	1547.2
22.5°	2328.1	2254.3	2060.0	1923.3	1867.5	1748.7	1621.0	1482.5	1399.7	1343.9	1345.7
25°	2410.8	2306.5	2067.2	1930.5	1829.7	1628.2	1444.7	1309.8	1210.8	1173.0	1185.6
27.5°	2457.6	2338.9	2106.8	1946.6	1730.8	1457.3	1259.4	1133.4	1075.9	1057.9	1056.1
30°	2597.9	2410.8	2155.3	1914.3	1565.2	1273.8	1090.3	1012.9	957.1	940.9	944.5
32.5°	2806.6	2542.2	2218.3	1829.7	1396.1	1110.1	980.5	922.9	870.8	840.2	836.6
35°	2981.1	2767.0	2284.9	1698.4	1200.0	984.1	903.2	831.2	752.0	717.8	708.9
37.5°	3314.0	3020.7	2270.5	1500.5	1012.9	890.6	820.4	732.2	663.9	617.1	611.7
40°	3756.6	3317.6	2200.3	1259.4	874.4	807.8	732.2	647.7	563.1	523.5	519.9
42.5°	4294.5	3681.0	2072.6	1014.7	735.8	725.0	656.7	559.5	484.0	455.2	457.0
45°	4731.7	3992.2	1943.0	815.0	633.3	644.1	584.7	493.0	440.8	417.4	417.4
47.5°	5120.3	4202.7	1802.7	672.9	537.9	563.1	510.9	457.0	412.0	394.0	390.4
50°	5494.5	4416.8	1662.4	545.1	458.8	484.0	478.6	435.4	399.4	377.8	379.6
52.5°	5728.4	4451.0	1484.3	446.2	401.2	430.0	448.0	408.4	368.8	356.2	352.6
55°	5442.3	4010.2	1151.4	367.0	340.0	377.8	412.0	367.0	336.4	314.8	313.0
56°	5057.3	3585.6	962.5	338.2	322.0	363.4	399.4	350.8	316.6	304.1	295.1
57.5°	4281.9	2934.4	710.7	300.5	298.7	338.2	379.6	334.6	295.1	284.3	284.3
60°	2669.9	1651.6	430.0	251.9	259.1	300.5	341.8	298.7	262.7	262.7	268.1
62.5°	1216.2	687.3	260.9	214.1	223.1	259.1	304.1	269.9	250.1	269.9	273.5
65°	413.8	296.9	188.9	170.9	176.3	214.1	260.9	273.5	271.7	284.3	291.5
67.5°	232.1	190.7	158.3	142.1	138.5	158.3	214.1	273.5	262.7	257.3	260.9
70°	196.1	161.9	140.3	125.9	120.5	127.7	165.5	206.9	185.3	179.9	176.3
72.5°	158.3	134.9	122.3	113.3	97.2	82.8	75.6	79.2	88.2	93.6	102.5
75°	111.5	102.5	102.5	91.8	70.2	52.2	41.4	34.2	23.4	16.2	18.0
77.5°	63.0	63.0	64.8	55.8	45.0	34.2	25.2	18.0	9.0	3.6	1.8
80°	43.2	46.8	50.4	45.0	37.8	30.6	21.6	12.6	5.4	0.0	0.0
82.5°	43.2	48.6	52.2	45.0	37.8	28.8	21.6	12.6	5.4	1.8	0.0
85°	9.0	10.8	12.6	14.4	21.6	21.6	16.2	10.8	5.4	1.8	0.0
87.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	0.0	0.0
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)