

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: P652222

Luminaire Tested: **GALN-SA2B-840-U-SL2**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P652222  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA2B-840-U-SL2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9605.9 lumens  
Efficiency: N/A  
Efficacy: 117.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G2

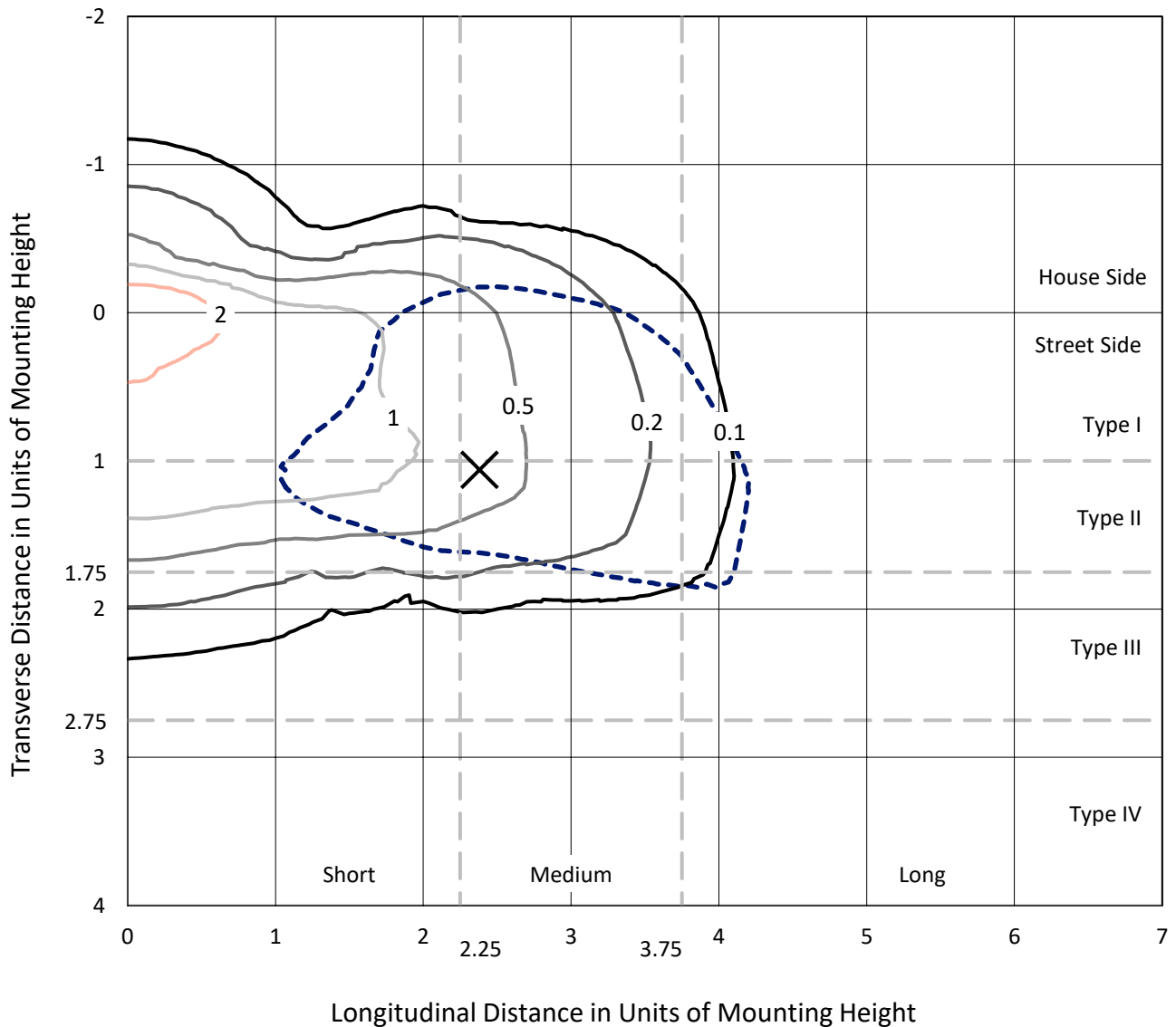
Input Watts (W): 82  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

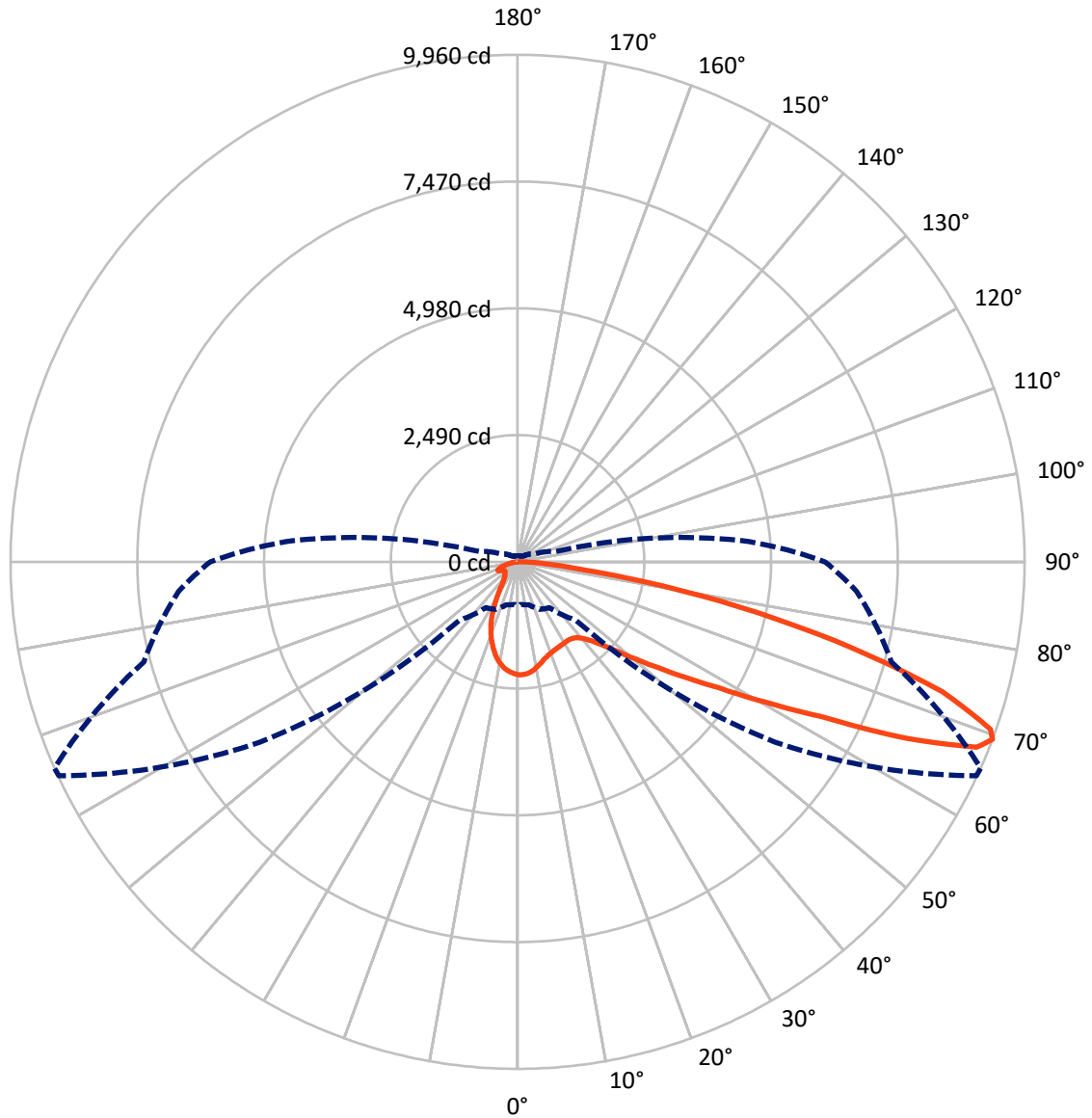
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

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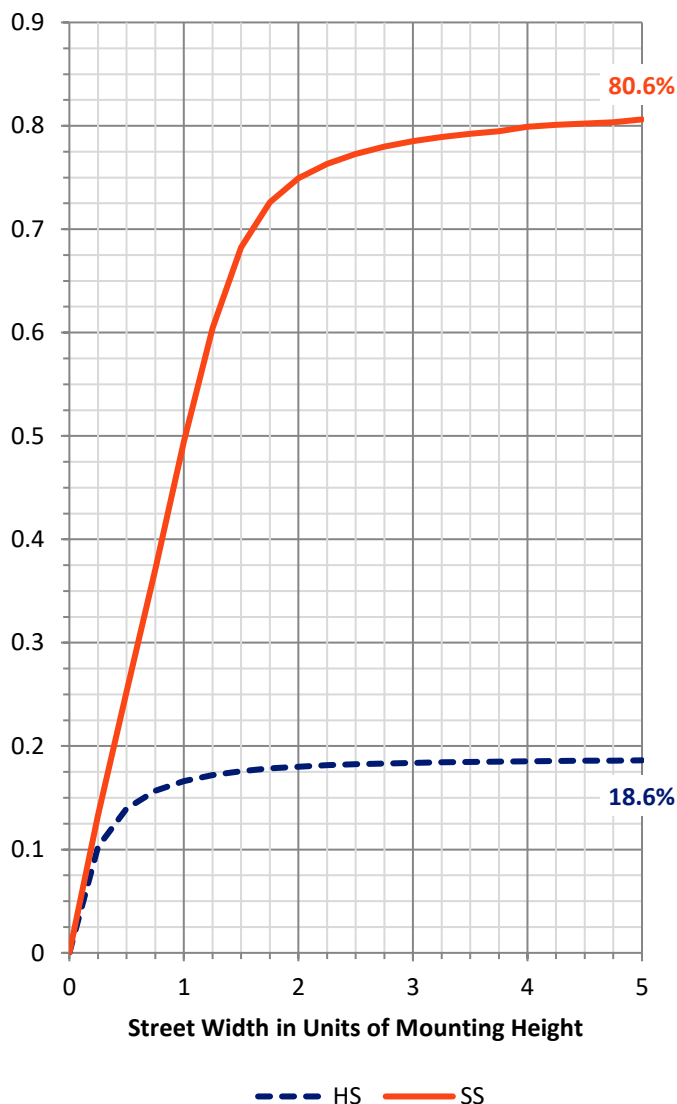
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1806.5	0.0	1806.5
	% Fixture	18.8	0.0	18.8
<b>Street Side</b>	Lumens	7799.4	0.0	7799.4
	% Fixture	81.2	0.0	81.2
<b>Total</b>	Lumens	9605.9	0.0	9605.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	192.6	2.0
10°-20°	456.9	4.8
20°-30°	622.0	6.5
30°-40°	835.9	8.7
40°-50°	1248.1	13.0
50°-60°	1985.3	20.7
60°-70°	2441.8	25.4
70°-80°	1588.7	16.5
80°-90°	234.6	2.4
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°	9605.9	100.0
0°-180°	9605.9	100.0

**Coefficient of Utilization**

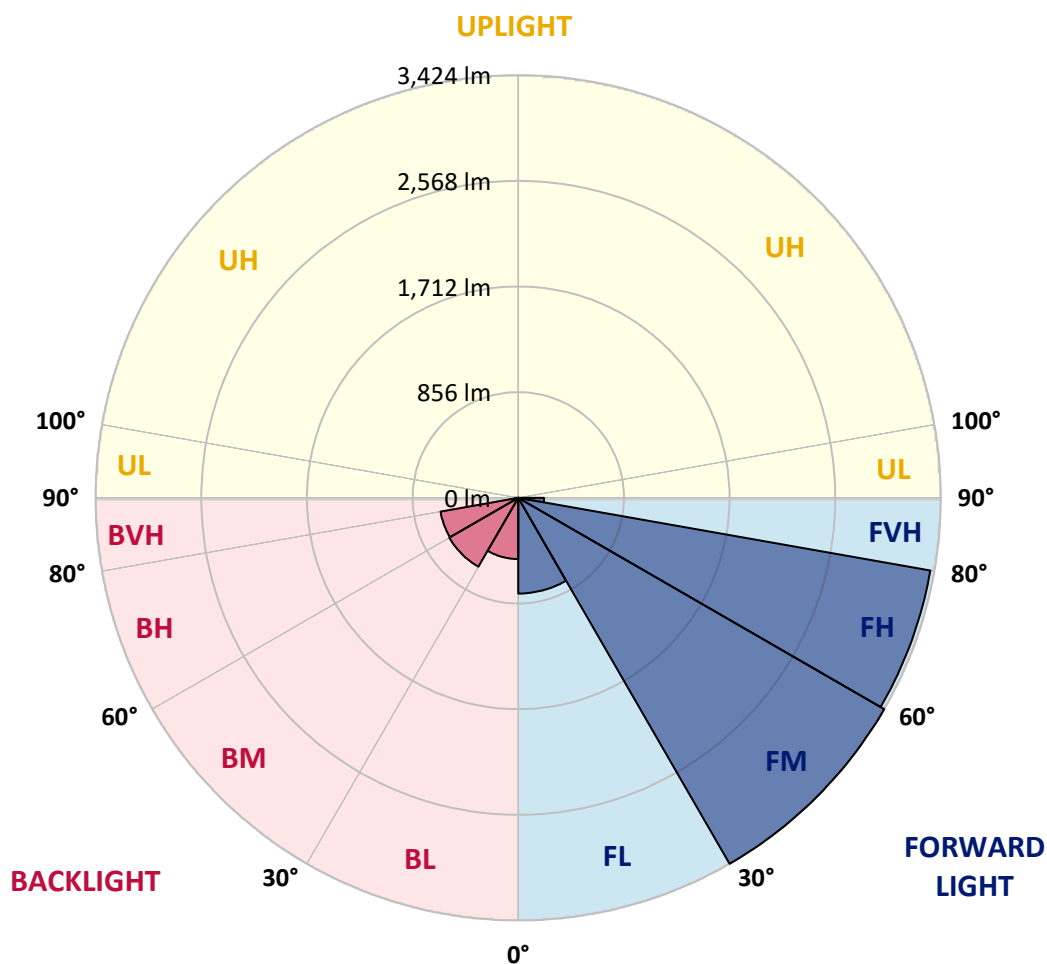


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	775.7	8.1			
FM (30°-60°)	3424.2	35.6			
FH (60°-80°)	3390.9	35.3			G2/5000
FVH (80°-90°)	208.6	2.2			G2/225
BL (0°-30°)	495.9	5.2	B1/500		
BM (30°-60°)	645.0	6.7	B1/1000		
BH (60°-80°)	639.6	6.7	B2/1000		G2/1000
BVH (80°-90°)	26.0	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 III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2218.3	2218.3	2218.3	2218.3	2218.3	2218.3	2218.3	2218.3	2218.3	2218.3	2218.3
2.5°	2140.6	2149.1	2158.7	2169.4	2189.5	2200.7	2208.7	2217.7	2218.8	2223.6	2219.9
5°	1982.6	1992.7	2007.0	2027.3	2057.6	2104.9	2153.9	2193.8	2198.6	2220.9	2227.3
7.5°	1850.7	1856.5	1868.3	1900.7	1943.8	1996.4	2067.8	2148.6	2160.3	2213.5	2232.1
10°	1743.2	1749.1	1762.9	1796.5	1839.0	1904.9	1983.2	2089.5	2099.1	2190.6	2233.2
12.5°	1662.9	1668.2	1683.1	1716.1	1765.0	1826.7	1912.9	2025.7	2039.5	2160.3	2223.0
15°	1601.8	1611.9	1624.1	1651.2	1702.8	1762.4	1845.9	1967.2	1978.4	2128.4	2216.1
17.5°	1575.7	1580.5	1589.0	1614.0	1651.7	1710.3	1794.3	1921.4	1934.7	2106.0	2214.5
20°	1576.7	1581.5	1583.1	1597.0	1624.1	1674.6	1757.6	1885.3	1901.2	2086.4	2217.2
22.5°	1612.9	1613.5	1607.6	1602.8	1613.5	1655.4	1731.5	1858.1	1876.8	2077.9	2219.3
25°	1668.8	1678.3	1669.8	1647.5	1627.8	1648.0	1721.4	1843.2	1860.8	2065.6	2216.7
27.5°	1759.2	1760.8	1753.9	1723.5	1672.5	1657.6	1717.2	1832.0	1847.0	2056.6	2203.3
30°	1880.5	1875.7	1869.3	1835.8	1755.5	1694.3	1726.2	1821.9	1837.4	2043.3	2187.4
32.5°	2003.3	2018.2	2012.4	1973.1	1868.8	1765.6	1755.5	1820.9	1833.6	2033.1	2169.9
35°	2133.7	2140.6	2168.3	2148.1	2041.1	1881.0	1810.3	1837.4	1847.5	2033.7	2157.6
37.5°	2235.8	2254.5	2319.3	2336.9	2236.4	2033.7	1899.1	1884.2	1888.5	2059.8	2162.4
40°	2359.3	2391.1	2474.6	2546.5	2480.5	2232.1	2050.2	1970.9	1976.3	2122.5	2193.8
42.5°	2515.6	2538.0	2650.2	2747.5	2737.0	2494.3	2233.2	2112.9	2115.6	2247.5	2281.5
45°	2698.6	2730.6	2856.6	3002.9	3027.9	2791.2	2497.5	2327.9	2326.3	2441.7	2445.4
47.5°	2932.7	2952.4	3077.4	3237.0	3338.0	3164.1	2818.4	2636.4	2619.4	2724.7	2694.4
50°	3148.1	3179.0	3273.7	3448.2	3699.8	3600.8	3240.2	3036.4	2996.6	3095.0	3043.8
52.5°	3238.6	3271.0	3350.8	3567.4	4009.9	4165.8	3775.8	3513.6	3447.1	3522.6	3504.0
55°	3081.7	3123.6	3198.2	3461.5	4146.1	4817.4	4498.3	4065.2	4016.8	3984.4	3989.7
57.5°	2659.8	2699.7	2800.2	3090.7	3983.3	5290.3	5529.7	4774.4	4670.6	4521.1	4546.6
60°	2024.6	2049.6	2101.7	2423.6	3500.8	5413.2	6701.1	5670.7	5604.8	5055.8	5073.8
62.5°	1437.9	1466.1	1502.3	1662.9	2562.9	5066.9	7618.2	6922.4	6686.7	5609.5	5592.0
65°	1167.6	1148.5	1192.1	1267.1	1503.9	3926.9	7824.6	8659.8	8335.2	6338.8	6095.1
67.5°	960.2	940.0	983.0	1116.6	1143.7	2279.4	7080.9	9787.6	9722.6	7132.0	6606.4
69°	850.1	839.4	877.2	1029.3	1097.9	1618.8	6168.6	9944.4	9959.9	7599.5	6685.1
70°	766.0	770.3	807.0	985.1	1077.2	1334.7	5272.2	9727.9	9858.8	7833.1	6600.0
72.5°	563.9	572.9	624.0	816.0	1057.6	1132.6	3137.5	8497.0	8728.4	7847.0	6037.7
75°	394.2	389.9	435.1	614.4	999.0	1122.4	1842.7	6571.3	6833.5	6782.5	5073.3
77.5°	258.0	264.9	301.1	434.0	840.5	1113.9	1201.2	4662.1	4832.3	4536.0	3000.8
80°	181.9	181.4	201.6	296.3	623.4	1070.3	983.6	2938.5	2895.5	1782.6	889.9
82.5°	104.3	111.7	135.1	208.6	417.1	942.1	904.8	1405.4	1283.1	508.0	300.6
85°	57.9	60.6	80.3	126.1	243.6	709.6	790.0	639.4	603.2	212.3	129.3
87.5°	18.6	20.2	33.5	63.8	110.7	335.1	447.4	295.3	272.4	76.6	52.1
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°	2218.3	2218.3	2218.3	2218.3	2218.3	2218.3	2218.3	2218.3	2218.3	2218.3	2218.3
2.5°	2221.5	2227.8	2210.8	2194.3	2179.5	2158.7	2140.1	2124.6	2114.0	2112.4	2107.1
5°	2228.9	2229.4	2197.0	2153.4	2110.8	2064.0	2015.6	1981.0	1948.6	1930.5	1921.4
7.5°	2234.2	2229.4	2171.0	2100.1	2018.2	1933.1	1848.0	1780.0	1727.2	1706.6	1714.5
10°	2232.1	2217.2	2131.6	2018.2	1899.1	1772.0	1649.6	1553.8	1466.1	1420.9	1422.0
12.5°	2220.4	2195.9	2073.1	1926.2	1751.2	1581.0	1393.7	1264.4	1162.9	1102.7	1084.1
15°	2210.3	2167.8	2004.4	1801.3	1583.6	1340.6	1112.3	952.8	867.7	820.3	819.7
17.5°	2199.6	2140.6	1929.4	1668.8	1391.1	1078.2	838.9	717.1	677.2	682.0	674.0
20°	2188.5	2108.7	1851.2	1521.4	1156.5	804.3	628.2	578.8	590.0	611.7	614.9
22.5°	2175.8	2074.7	1767.2	1359.1	909.6	605.4	509.6	502.2	530.9	564.9	569.7
25°	2156.1	2032.1	1661.3	1189.4	701.6	487.8	446.3	451.6	479.8	508.6	511.7
27.5°	2128.4	1979.5	1554.4	977.7	527.1	418.6	408.1	414.9	428.7	446.3	450.6
30°	2091.1	1919.8	1431.5	794.7	422.4	384.1	379.8	383.6	391.5	399.0	401.1
32.5°	2053.9	1862.4	1307.6	608.5	376.6	361.2	356.9	356.9	356.9	358.0	358.5
35°	2019.3	1808.2	1174.5	474.0	352.7	343.1	337.2	330.8	329.8	326.1	326.1
37.5°	2000.2	1758.6	1033.1	396.9	335.1	328.2	320.3	309.6	303.8	304.3	303.2
40°	2003.9	1726.2	904.3	353.2	320.8	313.4	301.1	288.9	285.1	285.1	284.1
42.5°	2045.9	1715.6	781.0	330.3	307.0	298.5	283.0	271.8	269.7	269.2	270.2
45°	2142.7	1741.6	670.3	315.5	295.3	282.5	267.0	256.9	254.8	254.8	254.3
47.5°	2331.6	1826.2	591.0	305.9	286.7	270.2	254.3	244.1	240.4	239.3	239.3
50°	2625.2	2009.7	531.9	297.4	276.1	259.0	242.5	230.9	225.1	224.5	224.0
52.5°	3033.2	2295.9	509.1	291.0	264.4	247.3	229.3	218.1	210.7	209.1	208.0
55°	3510.4	2695.4	540.5	286.2	252.1	234.1	215.5	203.8	196.8	193.6	193.1
57.5°	4063.1	3175.3	659.6	279.8	240.9	219.7	201.6	189.9	182.5	178.7	177.7
60°	4559.4	3668.4	867.7	276.1	231.4	204.3	185.7	175.0	168.1	164.4	163.8
62.5°	5104.7	4138.6	1116.1	286.2	227.2	189.4	170.7	161.2	155.3	151.6	151.6
65°	5687.2	4609.4	1280.4	320.3	233.5	177.7	154.8	146.8	141.5	138.8	138.3
67.5°	6079.8	4772.2	1054.9	355.3	249.5	164.9	139.4	133.0	129.8	127.2	127.2
69°	6037.2	4566.4	778.3	364.4	254.3	158.5	130.9	126.1	121.8	120.8	119.7
70°	5902.6	4331.7	652.2	358.5	250.5	152.6	125.6	119.7	116.0	114.9	114.4
72.5°	5257.3	3756.7	485.7	311.8	213.3	132.5	111.2	105.9	102.7	101.1	101.1
75°	4367.9	3070.5	379.3	247.9	167.0	111.7	95.2	91.0	88.3	87.2	86.7
77.5°	2448.1	1714.5	272.4	194.2	126.6	90.4	79.8	76.1	73.4	72.3	72.3
80°	682.0	490.0	160.1	128.2	86.2	68.6	63.3	60.6	56.9	54.2	55.8
82.5°	256.9	212.3	91.5	77.1	54.8	45.8	44.2	42.0	40.5	36.7	36.7
85°	125.0	103.2	58.5	41.0	30.4	24.0	22.9	21.8	20.8	18.1	18.6
87.5°	43.1	45.8	25.6	14.9	9.1	5.9	4.8	2.7	2.7	2.7	2.7
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)