

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: P451472

Luminaire Tested: **GALN-SA2B-760-U-SL2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451472
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-15)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2B-760-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 5700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9365 lumens
Efficiency: N/A
Efficacy: 114.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

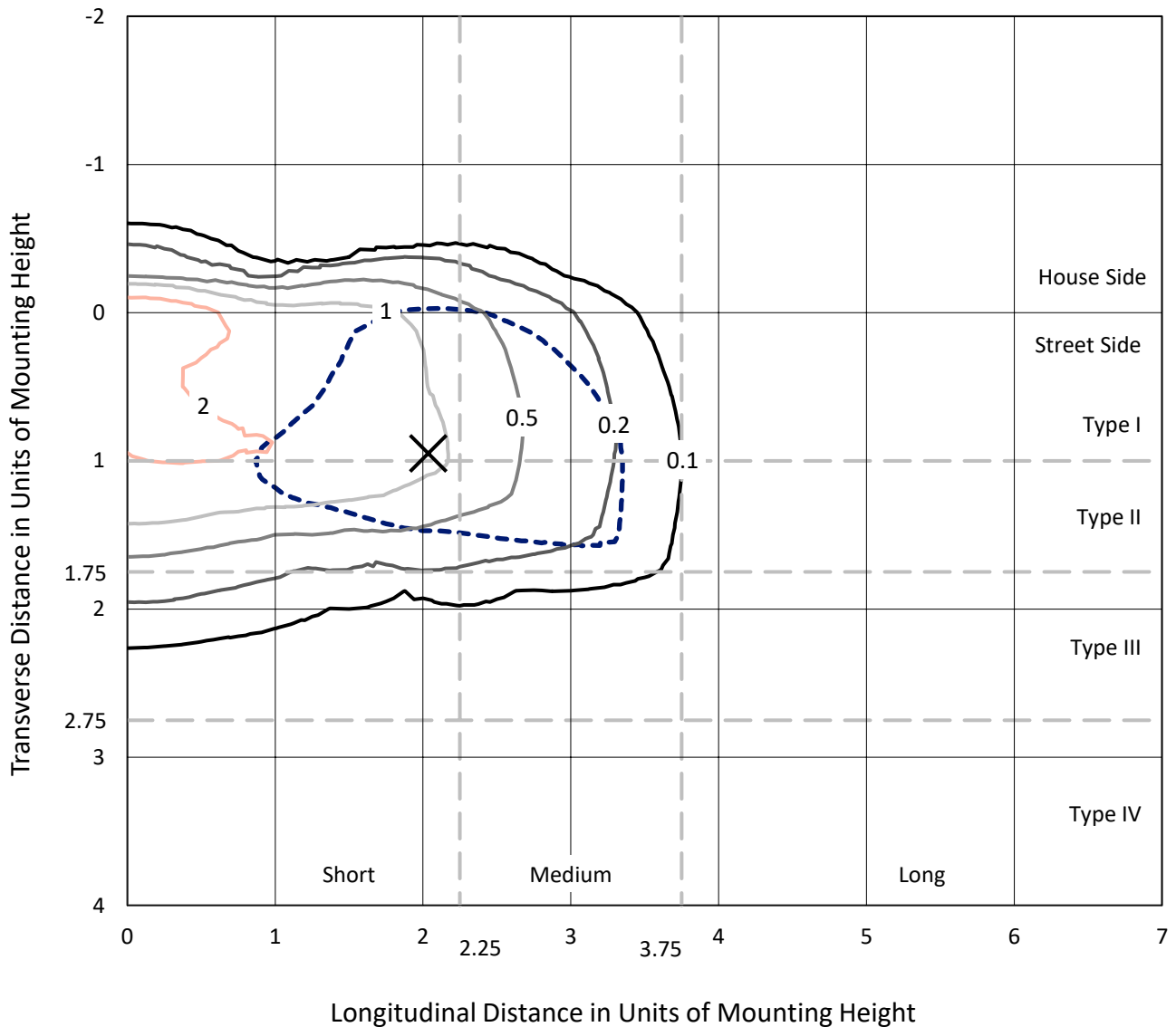
Input Watts (W): 82
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

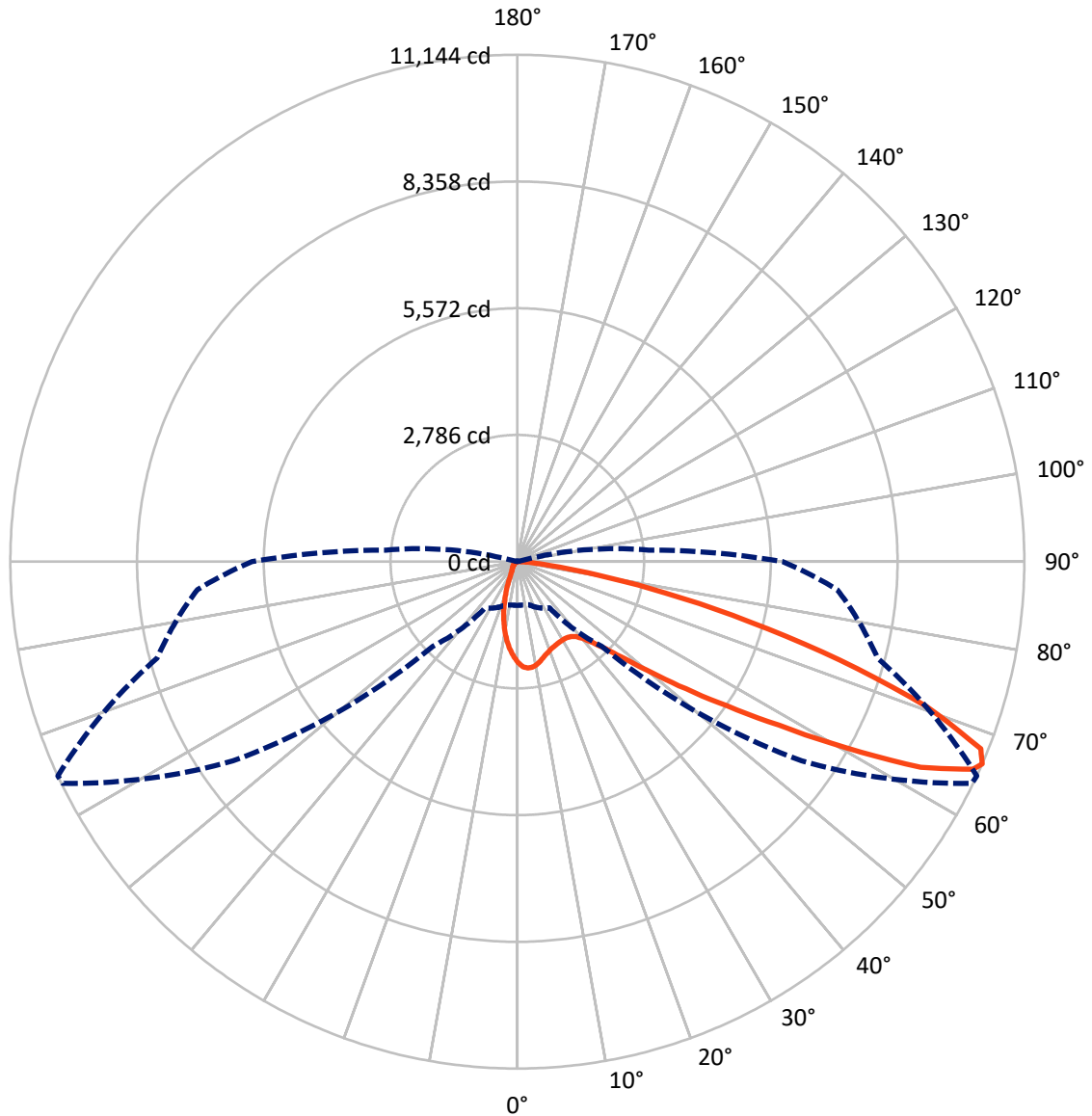
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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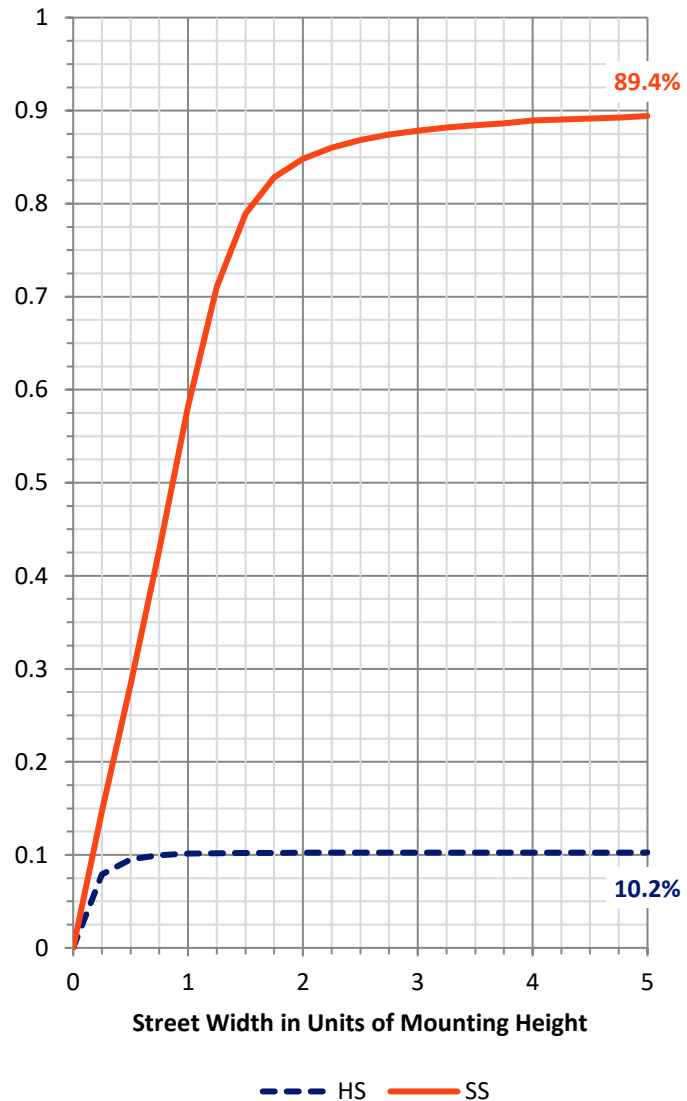
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	968.5	0.0	968.5
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	8396.5	0.0	8396.5
	% Fixture	89.7	0.0	89.7
Total	Lumens	9365.0	0.0	9365.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	181.6	1.9
10°-20°	395.7	4.2
20°-30°	566.9	6.1
30°-40°	828.0	8.8
40°-50°	1388.4	14.8
50°-60°	2317.0	24.7
60°-70°	2459.5	26.3
70°-80°	1113.9	11.9
80°-90°	114.0	1.2
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°	9365.0	100.0
0°-180°	9365.0	100.0



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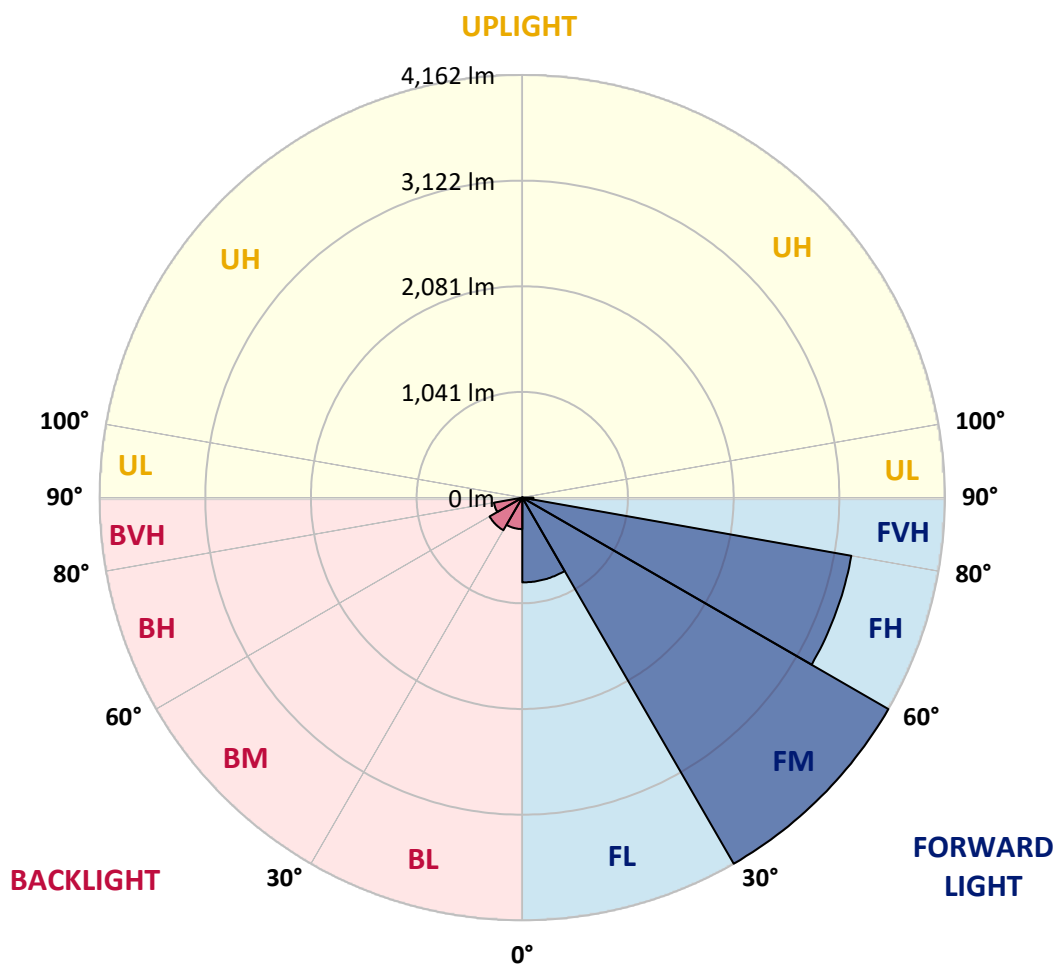
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	834.5	8.9			
FM (30°-60°)	4162.0	44.4			
FH (60°-80°)	3289.7	35.1			G2/5000
FVH (80°-90°)	110.3	1.2			G2/225
BL (0°-30°)	309.8	3.3	B1/500		
BM (30°-60°)	371.4	4.0	B1/1000		
BH (60°-80°)	283.6	3.0	B1/500		G1/500
BVH (80°-90°)	3.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	2220.8	2220.8	2220.8	2220.8	2220.8	2220.8	2220.8	2220.8	2220.8	2220.8	2220.8
2.5°	2340.3	2342.9	2346.0	2350.5	2353.6	2344.1	2330.8	2315.7	2312.5	2280.2	2241.0
5°	2215.1	2218.9	2246.7	2261.9	2296.1	2327.1	2346.7	2349.2	2347.9	2317.6	2254.9
7.5°	2036.7	2047.5	2074.7	2101.2	2165.1	2223.9	2293.5	2342.2	2345.4	2337.2	2259.4
10°	1891.9	1898.8	1912.7	1965.2	2018.4	2108.2	2205.6	2297.3	2304.9	2337.8	2255.6
12.5°	1778.7	1788.8	1805.9	1846.3	1910.2	1995.0	2105.7	2229.0	2244.8	2325.8	2244.8
15°	1699.6	1704.6	1721.7	1761.6	1823.6	1902.0	2014.0	2157.5	2171.5	2310.0	2242.9
17.5°	1662.3	1668.0	1680.0	1711.6	1762.8	1835.6	1945.0	2100.0	2117.7	2299.9	2249.9
20°	1672.4	1677.4	1678.1	1694.5	1729.3	1790.7	1894.4	2046.2	2069.0	2293.5	2261.3
22.5°	1729.9	1730.6	1723.0	1715.4	1727.4	1771.7	1863.4	2012.1	2035.5	2292.3	2274.6
25°	1816.0	1817.9	1805.2	1778.7	1754.6	1777.4	1856.5	1989.9	2010.8	2289.1	2282.8
27.5°	1934.9	1934.3	1930.5	1886.2	1817.9	1802.7	1862.1	1977.9	1995.6	2280.2	2285.9
30°	2101.2	2096.2	2088.0	2038.0	1933.6	1864.0	1886.2	1970.3	1986.8	2267.6	2277.7
32.5°	2265.1	2284.0	2282.8	2235.3	2105.0	1973.5	1936.2	1980.4	1992.4	2259.4	2265.7
35°	2456.1	2455.5	2504.2	2486.4	2334.0	2113.3	2021.5	2014.0	2023.4	2265.1	2260.0
37.5°	2633.2	2649.6	2725.5	2743.9	2604.7	2310.6	2142.4	2086.1	2089.2	2303.6	2273.9
40°	2853.9	2885.6	2998.8	3060.1	2937.4	2603.5	2320.7	2218.3	2218.9	2398.5	2326.4
42.5°	3138.6	3188.5	3294.2	3396.6	3330.9	2950.1	2588.3	2427.6	2426.4	2565.5	2446.6
45°	3484.6	3519.4	3639.5	3802.1	3760.3	3434.0	2977.9	2752.1	2735.7	2839.4	2659.8
47.5°	3783.1	3830.6	3952.6	4138.0	4327.7	4024.7	3443.5	3198.0	3187.3	3275.2	3025.4
50°	3913.4	3955.2	4083.6	4343.5	4803.4	4800.2	4136.7	3848.9	3830.6	3878.0	3590.8
52.5°	3770.5	3809.7	3939.4	4263.2	5027.3	5745.2	5141.1	4665.5	4643.3	4582.6	4266.4
55°	3280.9	3313.2	3504.8	3876.7	4941.3	6375.2	6525.1	5674.4	5588.3	5352.4	5031.1
57.5°	2612.3	2595.9	2714.8	3146.8	4436.5	6586.5	7945.7	6931.2	6777.5	6017.8	5678.2
60°	1810.3	1860.9	1909.0	2193.6	3335.9	6220.2	8829.4	8511.2	8308.8	6672.5	6298.0
62.5°	1330.8	1364.4	1396.0	1527.5	2097.4	4966.6	8985.6	10134.3	9954.6	7367.6	6889.4
65°	1052.5	1055.0	1067.7	1197.4	1382.1	3229.7	8234.8	11049.5	11003.4	8036.8	7129.2
66°	958.9	959.5	979.1	1118.3	1240.4	2630.0	7633.3	11119.1	11144.4	8197.5	7059.0
67.5°	838.1	835.6	864.0	1005.1	1129.7	1896.3	6556.7	10837.0	10986.9	8320.8	6806.6
70°	649.6	646.4	681.2	843.2	1040.5	1265.0	4358.1	9305.0	9546.7	8068.5	6022.2
72.5°	432.6	435.2	494.6	665.4	993.1	1113.9	2621.8	7078.6	7420.1	6663.0	4737.6
75°	252.4	256.8	324.5	494.6	862.1	1062.0	1483.9	5047.5	5265.8	4601.0	2951.4
77.5°	132.2	134.1	181.5	326.4	661.0	986.1	988.6	3224.6	3327.1	2236.0	1168.3
80°	70.2	68.3	97.4	196.7	454.8	865.9	802.0	1707.2	1774.9	664.1	295.4
82.5°	26.6	29.1	51.9	129.0	268.8	621.8	690.7	754.6	731.2	146.1	124.0
85°	5.1	6.3	22.1	76.5	135.4	260.0	509.2	370.0	342.8	55.0	71.5
87.5°	0.6	1.3	6.3	18.3	19.6	87.9	150.5	102.5	88.6	20.2	29.7
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°	2220.8	2220.8	2220.8	2220.8	2220.8	2220.8	2220.8	2220.8	2220.8	2220.8	2220.8
2.5°	2222.1	2205.0	2148.0	2091.8	2034.2	1982.3	1946.9	1889.3	1874.8	1853.9	1841.9
5°	2217.6	2177.8	2068.3	1948.8	1837.5	1717.3	1625.6	1537.0	1489.6	1465.6	1456.7
7.5°	2205.0	2141.7	1970.9	1783.7	1605.3	1425.7	1269.5	1150.6	1074.0	1021.5	986.1
10°	2179.7	2092.4	1857.7	1600.3	1330.8	1093.6	895.7	745.1	628.7	592.0	593.3
12.5°	2153.7	2037.4	1731.2	1396.6	1062.6	763.5	553.5	434.5	378.9	360.5	356.7
15°	2129.7	1984.9	1607.2	1199.3	791.3	494.6	356.7	315.0	299.8	296.7	296.0
17.5°	2117.1	1936.2	1475.0	973.5	552.2	335.9	285.9	274.5	270.1	266.9	265.7
20°	2106.3	1893.8	1348.5	762.2	377.6	275.1	256.2	245.4	237.8	234.7	232.8
22.5°	2098.7	1850.1	1217.6	590.1	289.1	244.2	227.1	213.2	202.4	198.6	196.1
25°	2087.3	1802.1	1085.4	431.4	243.5	217.0	197.3	180.9	167.0	160.0	158.8
27.5°	2070.9	1747.7	940.6	319.4	217.6	192.9	168.9	148.6	134.7	127.1	127.8
30°	2044.3	1690.7	795.7	253.6	196.7	168.3	142.3	122.7	109.4	103.7	103.1
32.5°	2012.7	1621.8	662.9	217.6	177.7	146.1	118.9	101.8	91.7	87.3	86.7
35°	1983.0	1552.2	527.5	195.4	158.1	125.9	99.9	85.4	77.8	74.0	74.6
37.5°	1966.5	1490.2	411.1	177.7	142.3	108.2	86.0	73.4	66.4	63.3	62.6
40°	1977.3	1439.6	327.0	161.9	124.6	93.0	74.0	63.3	56.3	51.9	51.9
42.5°	2027.9	1417.5	263.8	146.7	108.2	80.3	64.5	54.4	46.8	42.4	43.0
45°	2182.2	1440.9	220.8	132.8	93.0	69.6	55.7	44.9	38.0	34.8	34.2
47.5°	2438.4	1528.8	191.0	118.3	79.7	59.5	46.8	37.3	30.4	27.8	27.2
50°	2886.2	1710.3	168.9	103.7	67.7	50.6	38.6	29.7	24.0	21.5	21.5
52.5°	3502.3	2106.3	153.1	87.3	56.9	43.0	31.6	24.0	19.0	17.1	16.4
55°	4146.2	2523.8	144.8	73.4	47.4	35.4	25.3	19.0	14.5	12.7	12.0
57.5°	4765.4	2851.4	135.4	59.5	38.0	27.2	19.6	14.5	10.1	8.9	8.2
60°	5359.4	3116.4	115.1	47.4	29.7	19.6	14.5	10.1	7.0	5.7	5.7
62.5°	5890.7	3270.8	90.5	38.0	22.8	13.9	9.5	7.6	5.1	3.8	3.8
65°	5952.7	3070.3	68.3	29.1	16.4	8.9	5.7	5.7	3.8	2.5	2.5
66°	5828.1	2900.1	60.1	26.6	14.5	7.6	5.1	4.4	3.2	1.9	1.9
67.5°	5549.8	2609.8	51.9	22.8	12.0	5.7	3.8	3.8	2.5	1.3	1.3
70°	4795.2	2131.6	41.1	17.1	8.9	4.4	2.5	2.5	1.9	1.3	1.3
72.5°	3654.7	1591.4	33.5	12.7	6.3	3.2	1.9	1.9	1.9	1.3	1.3
75°	2204.3	857.1	25.9	9.5	5.7	2.5	1.3	1.9	2.5	1.9	1.3
77.5°	812.2	291.6	20.2	7.6	4.4	2.5	1.3	1.3	2.5	1.9	1.9
80°	199.2	75.9	14.5	6.3	4.4	2.5	1.3	1.3	2.5	2.5	2.5
82.5°	92.3	32.3	10.1	5.7	4.4	2.5	1.3	1.3	1.9	2.5	2.5
85°	53.1	15.2	8.2	6.3	4.4	2.5	1.3	1.3	1.9	2.5	2.5
87.5°	21.5	7.6	7.6	6.3	5.1	3.2	1.3	1.3	1.3	1.9	1.9
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)