

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: P200126

Luminaire Tested: **GWC-AF-02-LED-E1-SL3-800-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200126
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24289)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GWC-AF-02-LED-E1-SL3-800-HSS
Description: GALLEON WALL LUMINAIRE
(2) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8771.8 lumens
Efficiency: N/A
Efficacy: 102.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B1 - U0 - G2

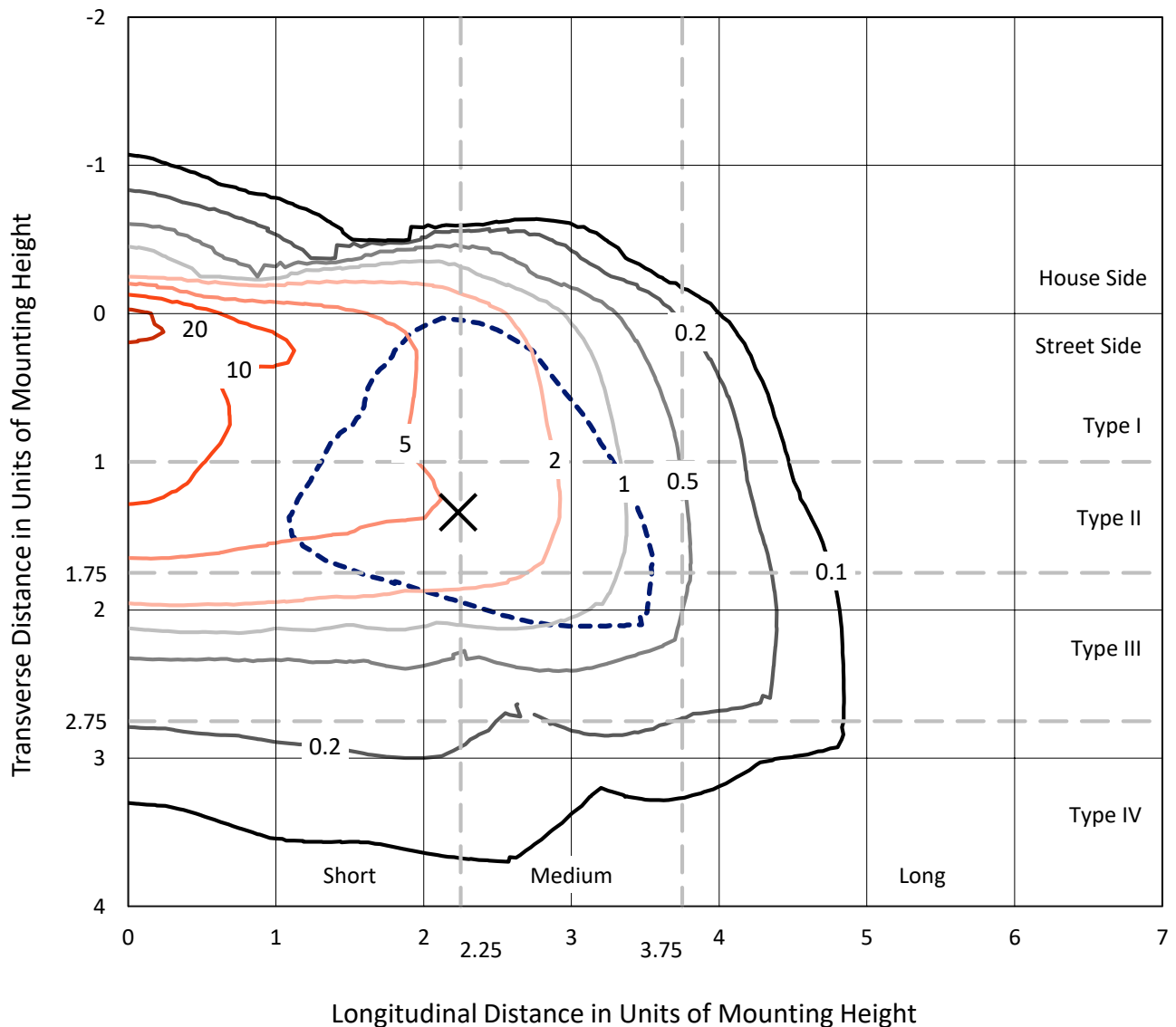
Input Watts (W): 86
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

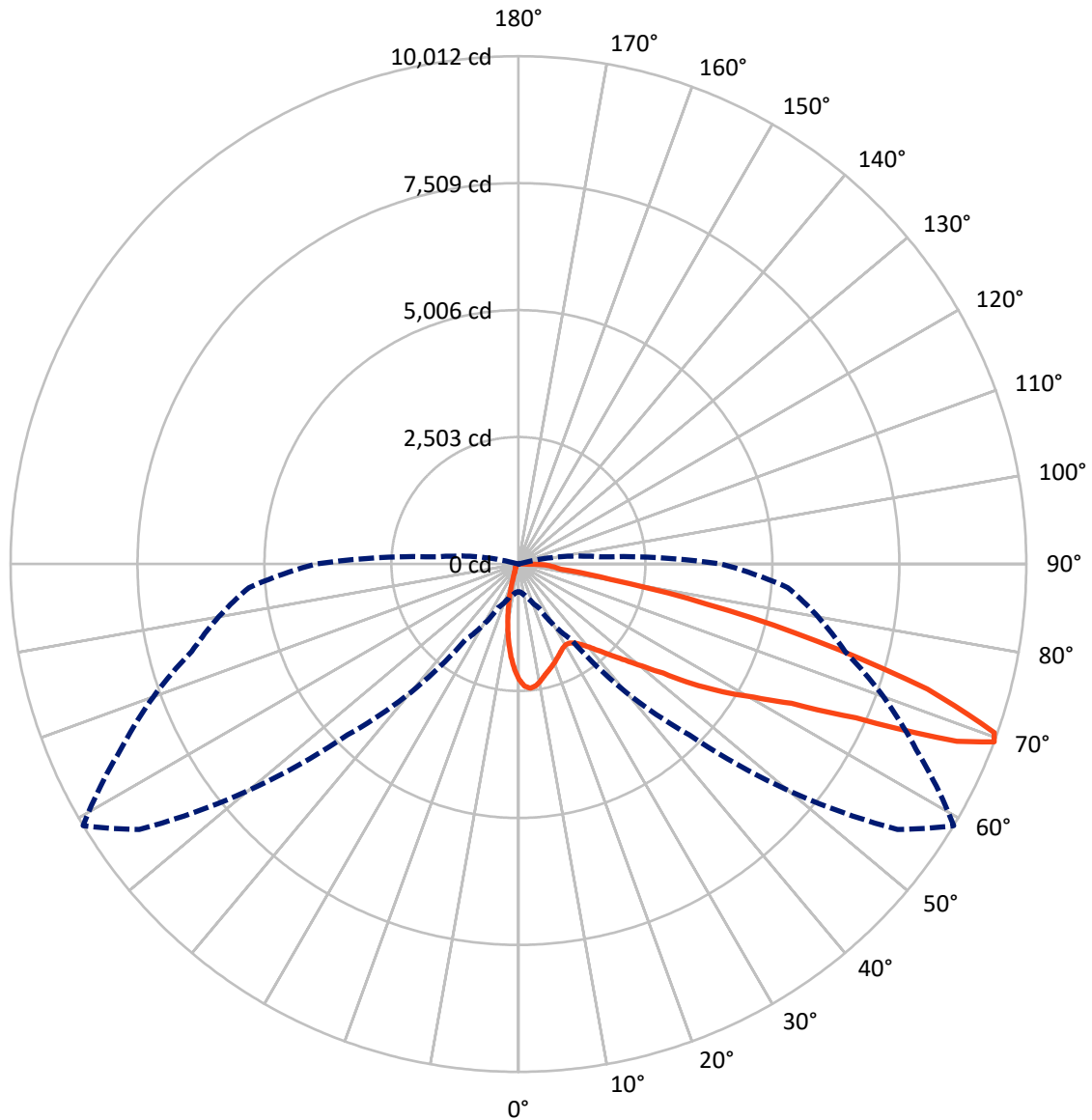
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 22.9 fc
 Type III - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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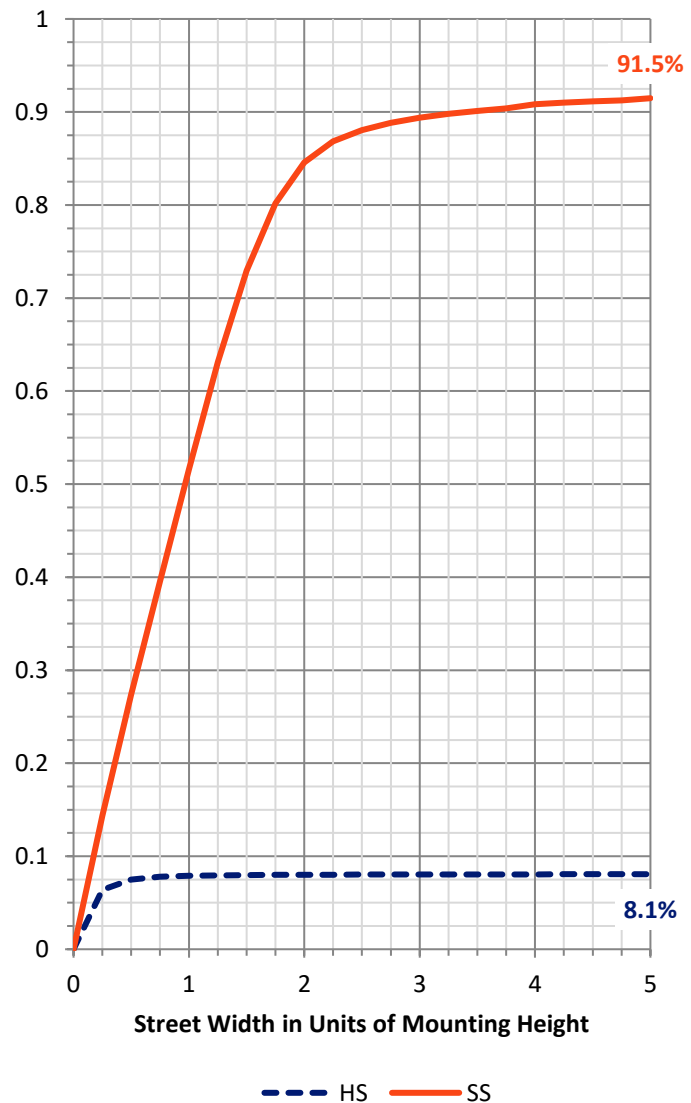
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	714.3	0.0	714.3
	% Fixture	8.1	0.0	8.1
Street Side	Lumens	8057.4	0.0	8057.4
	% Fixture	91.9	0.0	91.9
Total	Lumens	8771.8	0.0	8771.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	185.3	2.1
10°-20°	382.9	4.4
20°-30°	515.3	5.9
30°-40°	748.2	8.5
40°-50°	1245.8	14.2
50°-60°	1943.4	22.2
60°-70°	2404.7	27.4
70°-80°	1218.7	13.9
80°-90°	127.5	1.5
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°	8771.8	100.0
0°-180°	8771.8	100.0



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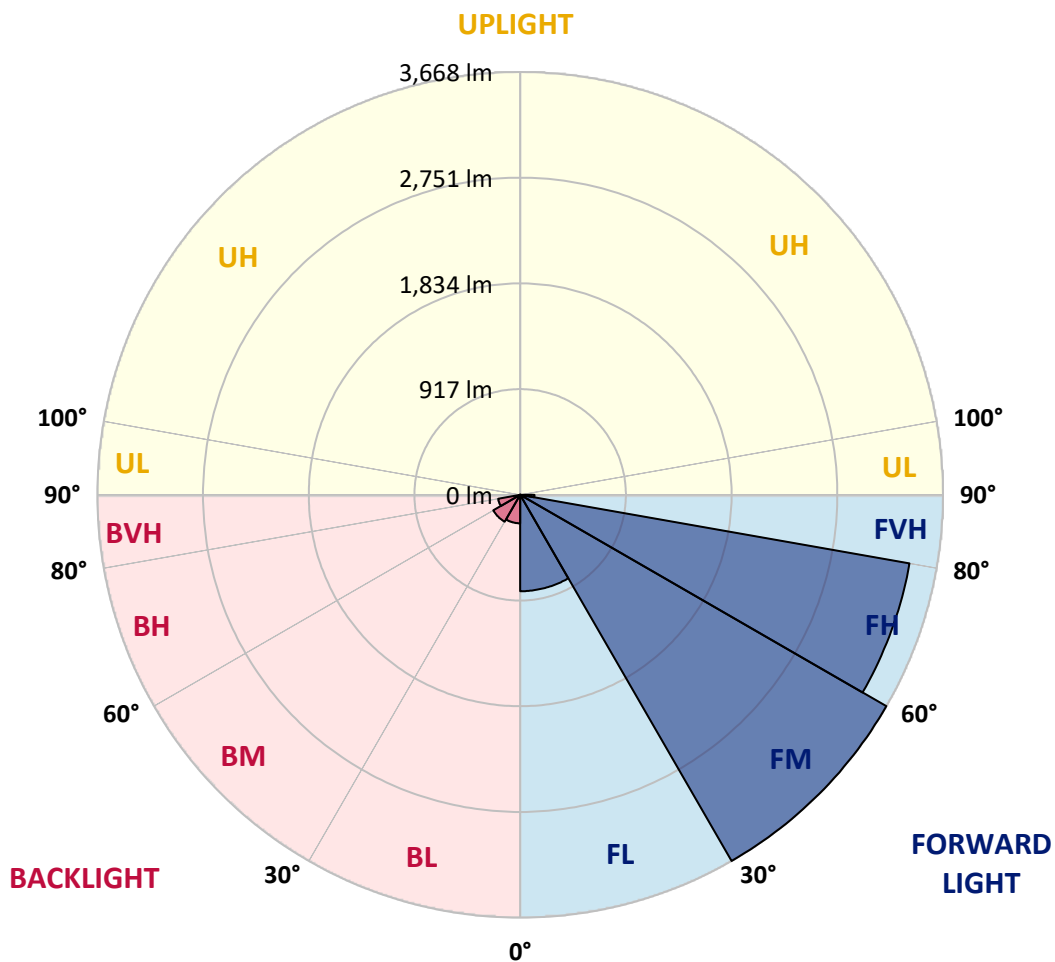
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	836.3	9.5			
FM	(30°-60°)	3668.1	41.8			
FH	(60°-80°)	3429.4	39.1			G2/5000
FVH	(80°-90°)	123.6	1.4			G2/225
BL	(0°-30°)	247.3	2.8	B1/500		
BM	(30°-60°)	269.2	3.1	B1/1000		
BH	(60°-80°)	194.0	2.2	B1/500		G1/500
BVH	(80°-90°)	3.9	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	2283.2	2283.2	2283.2	2283.2	2283.2	2283.2	2283.2	2283.2	2283.2	2283.2	2283.2
2.5°	2502.4	2501.4	2490.5	2485.6	2476.7	2457.7	2428.5	2413.1	2388.4	2345.2	2287.1
5°	2479.6	2491.5	2497.9	2498.5	2504.9	2497.9	2471.7	2458.8	2424.5	2355.1	2250.9
7.5°	2324.9	2329.3	2347.7	2363.5	2394.3	2423.6	2433.0	2427.6	2407.2	2332.7	2194.4
10°	2159.1	2163.6	2185.4	2206.3	2247.9	2293.1	2340.7	2350.6	2359.0	2301.0	2139.8
12.5°	2016.3	2020.7	2043.1	2070.4	2119.0	2174.6	2248.4	2264.8	2302.0	2270.7	2096.1
15°	1893.3	1895.3	1917.1	1950.9	2008.9	2080.3	2164.2	2190.4	2247.4	2249.5	2058.0
17.5°	1788.6	1793.6	1807.0	1839.3	1902.7	1991.1	2088.8	2126.4	2193.4	2231.6	2020.7
20°	1724.7	1729.6	1729.1	1747.0	1804.0	1898.3	2013.4	2058.5	2139.8	2213.3	1987.6
22.5°	1712.2	1712.2	1699.3	1696.9	1730.6	1809.5	1935.0	1990.0	2091.7	2205.3	1964.3
25°	1756.4	1754.5	1722.1	1695.8	1697.4	1744.5	1859.1	1924.6	2051.0	2210.8	1951.8
27.5°	1849.7	1847.1	1806.5	1756.4	1716.2	1715.7	1801.5	1872.0	2018.8	2236.6	1956.8
30°	1978.6	1977.7	1933.5	1870.5	1797.5	1730.6	1781.7	1845.7	1997.9	2283.2	1968.2
32.5°	2119.5	2118.0	2084.8	2018.3	1926.0	1797.5	1802.5	1856.1	2004.0	2345.2	1996.0
35°	2268.8	2266.3	2251.9	2193.9	2092.2	1921.1	1871.0	1912.6	2041.6	2437.9	2050.5
37.5°	2430.5	2433.0	2443.4	2387.9	2281.2	2094.2	1985.5	2013.9	2117.5	2563.9	2139.3
40°	2669.1	2668.6	2672.0	2599.1	2496.5	2306.0	2145.7	2154.7	2244.5	2731.1	2274.2
42.5°	3102.1	3071.8	2980.1	2831.3	2728.1	2548.1	2347.7	2338.3	2399.7	2937.9	2463.3
45°	3684.0	3619.5	3381.4	3096.2	2964.2	2820.9	2596.1	2565.9	2605.0	3186.4	2696.4
47.5°	4184.4	4117.5	3780.6	3372.0	3214.7	3079.8	2887.4	2832.8	2845.6	3464.7	2992.0
50°	4354.6	4321.9	4027.7	3612.0	3457.3	3405.7	3225.2	3158.7	3140.3	3786.7	3334.7
52.5°	4295.6	4293.0	4097.1	3767.7	3679.5	3743.0	3650.2	3573.4	3505.9	4125.9	3683.4
55°	4200.7	4213.2	4125.4	3904.2	3901.2	4051.0	4231.5	4167.6	3972.1	4494.4	3984.0
57.5°	3939.4	3992.5	4109.5	4162.1	4284.1	4437.4	4715.7	4753.3	4522.3	4776.7	4233.5
60°	3196.3	3312.9	3695.8	4199.3	4777.7	5159.6	5300.0	5332.2	4973.6	5011.3	4570.3
62.5°	2268.8	2387.9	2873.5	3725.1	4785.1	6108.4	6170.4	6044.0	5470.6	5359.0	5151.2
65°	1204.3	1296.1	1692.9	2688.9	4148.7	6328.7	7692.8	7315.8	6347.6	6043.0	5901.6
67.5°	616.0	643.8	801.6	1315.9	2852.1	5621.4	9057.3	9322.7	7858.9	6721.6	5865.4
69°	545.1	561.5	666.1	951.3	1826.4	4761.3	9123.8	10011.6	8650.1	6665.0	5330.2
70°	527.7	542.2	637.4	861.1	1427.5	3993.0	8869.3	9951.2	8852.5	6449.7	4930.4
72.5°	448.0	460.3	567.4	760.9	1160.2	1982.1	7204.6	8432.3	7943.7	5372.8	3568.9
75°	299.6	340.2	544.6	713.3	1079.3	1126.0	4749.9	6093.6	5660.6	3623.9	1859.1
77.5°	71.9	77.3	153.7	567.4	987.0	991.0	2442.9	3788.1	3089.7	1291.7	439.5
80°	38.7	37.2	43.2	112.6	919.1	930.1	1099.7	1838.8	1103.2	214.3	144.8
82.5°	27.3	25.8	27.8	47.2	289.2	847.2	795.7	832.3	457.4	82.3	65.0
85°	9.9	9.4	15.3	42.7	90.7	487.1	817.4	686.5	370.5	37.7	47.6
87.5°	3.5	3.0	5.9	23.3	27.8	207.4	504.4	518.8	145.9	22.8	22.3
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°	2283.2	2283.2	2283.2	2283.2	2283.2	2283.2	2283.2	2283.2	2283.2	2283.2	2283.2
2.5°	2262.9	2232.1	2175.5	2117.5	2063.9	1999.5	1967.2	1935.4	1922.1	1917.1	1893.8
5°	2197.4	2145.3	2025.2	1904.7	1793.6	1675.6	1597.6	1535.1	1498.5	1480.6	1452.4
7.5°	2113.5	2028.2	1846.2	1660.1	1487.1	1316.4	1190.0	1092.7	1025.8	993.5	964.2
10°	2032.2	1918.6	1659.6	1406.3	1171.1	944.9	770.3	643.8	563.0	525.8	502.0
12.5°	1959.3	1812.0	1479.6	1158.7	863.6	598.7	421.1	320.4	270.4	253.0	244.6
15°	1894.3	1713.7	1309.5	923.6	584.8	342.3	230.2	195.9	188.0	188.0	187.0
17.5°	1832.8	1617.5	1145.3	702.9	367.0	209.3	175.1	170.6	170.6	172.6	172.6
20°	1773.8	1525.7	986.5	504.4	231.2	166.1	158.3	157.2	158.3	160.7	160.7
22.5°	1723.2	1442.5	838.3	346.3	171.7	149.8	145.9	144.3	144.8	146.3	147.3
25°	1685.5	1372.0	698.4	234.7	147.8	136.4	132.0	129.5	127.5	127.5	128.5
27.5°	1661.7	1312.4	563.0	170.6	133.0	124.0	117.0	113.1	108.6	106.2	107.1
30°	1644.3	1255.9	436.0	139.4	119.1	110.1	101.2	94.7	88.3	85.3	86.3
32.5°	1637.8	1210.3	325.9	123.1	106.7	96.8	85.8	77.3	70.5	67.9	68.4
35°	1655.2	1174.0	238.6	111.1	96.8	84.3	71.9	62.5	57.1	55.5	56.1
37.5°	1700.9	1154.7	178.6	101.2	87.8	73.9	60.0	51.0	47.6	47.6	48.1
40°	1787.2	1154.2	143.3	94.2	79.9	64.0	49.6	43.2	41.1	42.1	42.7
42.5°	1913.1	1180.5	125.0	87.8	72.9	54.5	41.1	36.7	36.2	37.2	37.7
45°	2085.3	1228.7	115.1	82.3	65.5	45.6	34.7	31.7	31.7	33.2	33.8
47.5°	2296.1	1299.0	106.7	76.9	58.0	38.2	29.8	27.8	28.2	29.8	30.3
50°	2550.0	1387.8	98.2	70.9	52.6	31.7	25.8	24.3	24.8	26.8	27.3
52.5°	2839.2	1507.4	91.2	65.5	45.6	26.3	21.8	20.9	21.8	23.8	24.3
55°	3087.3	1614.5	82.9	61.0	36.7	21.8	17.9	17.9	18.8	21.4	21.8
57.5°	3325.8	1726.6	75.4	52.6	28.7	17.4	14.8	15.3	16.9	19.3	19.8
60°	3676.0	1916.6	66.5	44.2	21.8	13.9	12.4	12.9	14.8	17.4	17.9
62.5°	4270.7	2205.8	57.5	36.7	16.9	10.9	9.9	10.9	13.4	16.4	16.9
65°	4807.5	2323.3	47.2	30.8	12.9	8.4	8.4	9.9	12.9	15.9	16.4
67.5°	4508.3	1955.8	36.7	24.3	9.9	6.4	7.0	9.4	12.4	15.9	16.4
69°	3987.1	1599.2	31.2	19.3	8.4	5.9	6.4	9.4	12.4	15.3	15.9
70°	3580.7	1350.2	27.8	16.4	7.5	5.9	6.4	8.9	12.4	15.3	15.9
72.5°	2398.2	729.2	22.3	11.9	7.0	5.4	5.4	8.9	11.9	14.8	15.3
75°	1030.7	201.4	17.9	8.4	5.9	4.9	4.9	8.4	11.5	14.4	15.3
77.5°	188.5	51.0	14.4	7.5	5.9	4.9	4.5	8.0	10.9	13.9	14.4
80°	74.9	25.3	11.5	6.4	5.4	4.5	4.0	7.5	10.4	13.4	13.9
82.5°	45.1	14.4	9.4	5.9	5.4	4.0	3.5	6.4	9.9	12.9	13.4
85°	36.7	9.9	7.5	5.9	4.9	4.0	3.0	5.9	8.9	12.4	12.9
87.5°	17.9	7.0	7.0	5.4	4.9	4.0	3.0	5.4	8.4	11.9	12.4
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)