

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: P200296

Luminaire Tested: **GWC-AF-02-LED-E1-SL3-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200296
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24288)
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-SL3-7050
Description: GALLEON WALL LUMINAIRE
(2) 70 CRI, 5000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12424 lumens
Efficiency: N/A
Efficacy: 109.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B2 - U0 - G3

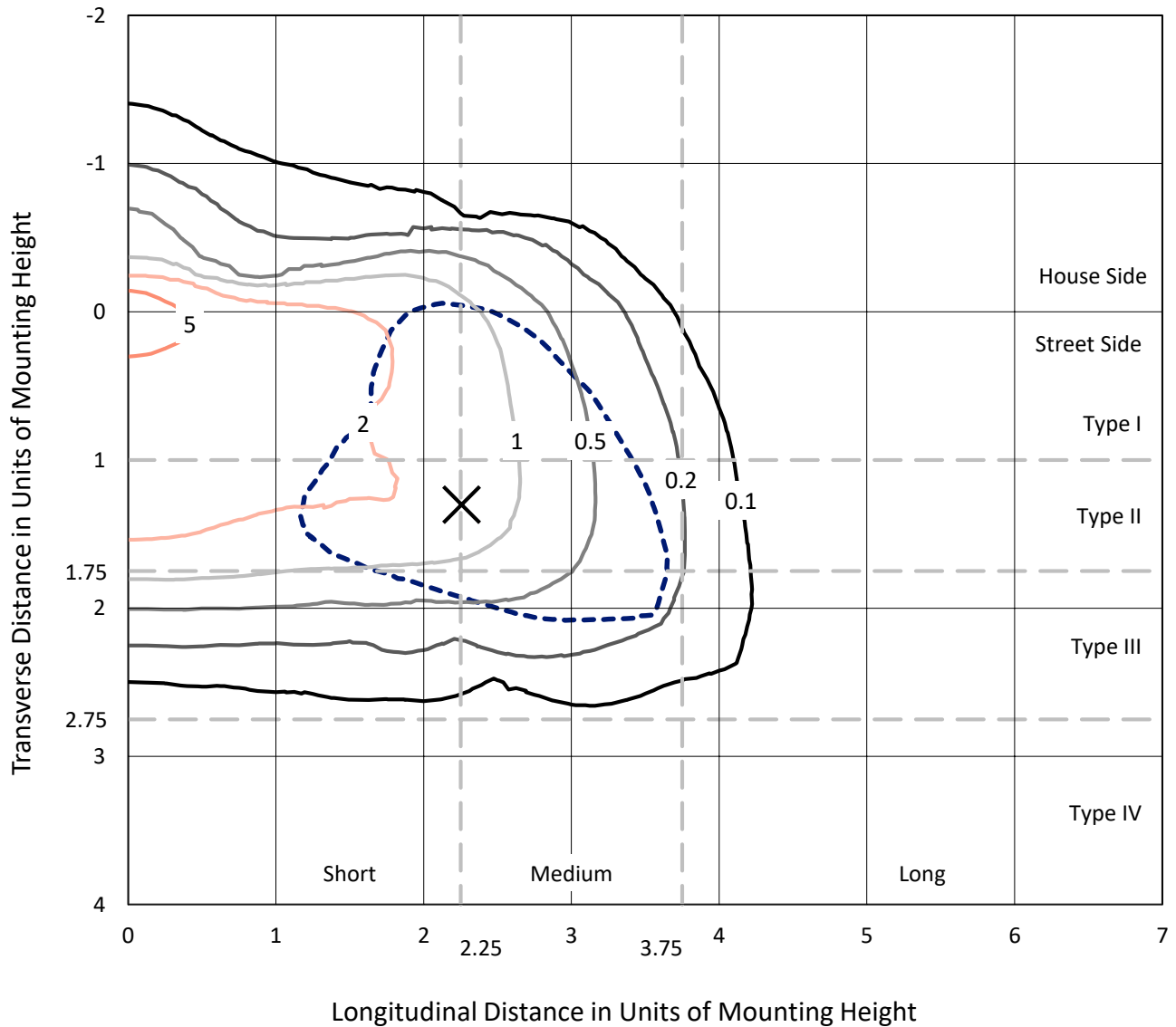
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

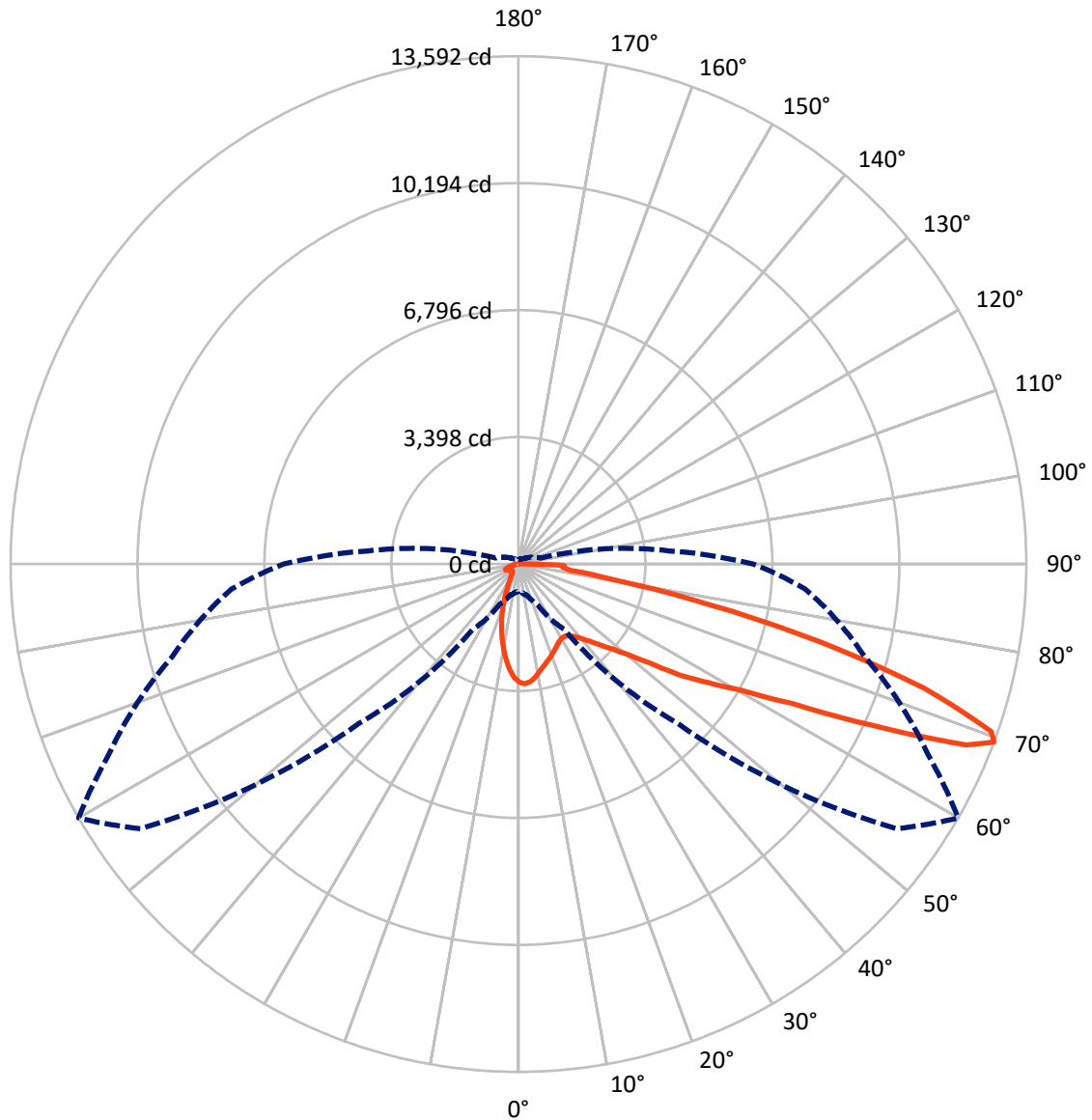
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 7.9 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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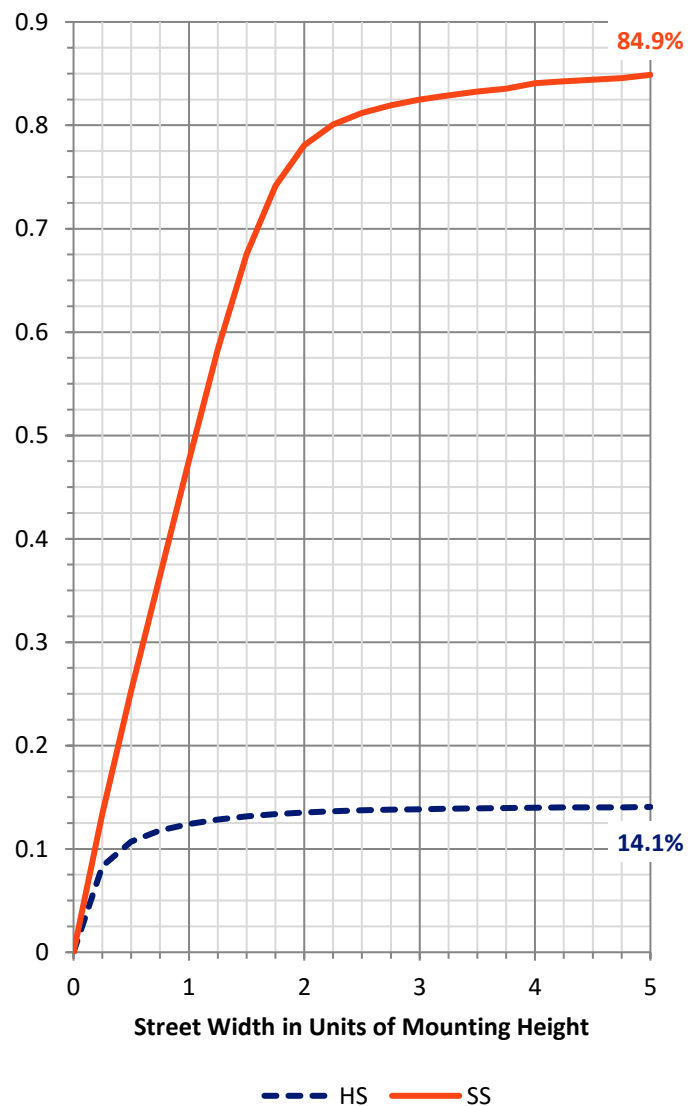
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1767.5	0.0	1767.5
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	10656.5	0.0	10656.5
	% Fixture	85.8	0.0	85.8
Total	Lumens	12424.0	0.0	12424.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	267.7	2.2
10°-20°	570.3	4.6
20°-30°	726.7	5.8
30°-40°	999.0	8.0
40°-50°	1621.0	13.0
50°-60°	2599.6	20.9
60°-70°	3459.9	27.8
70°-80°	1868.1	15.0
80°-90°	311.7	2.5
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°	12424.0	100.0
0°-180°	12424.0	100.0

Coefficient of Utilization



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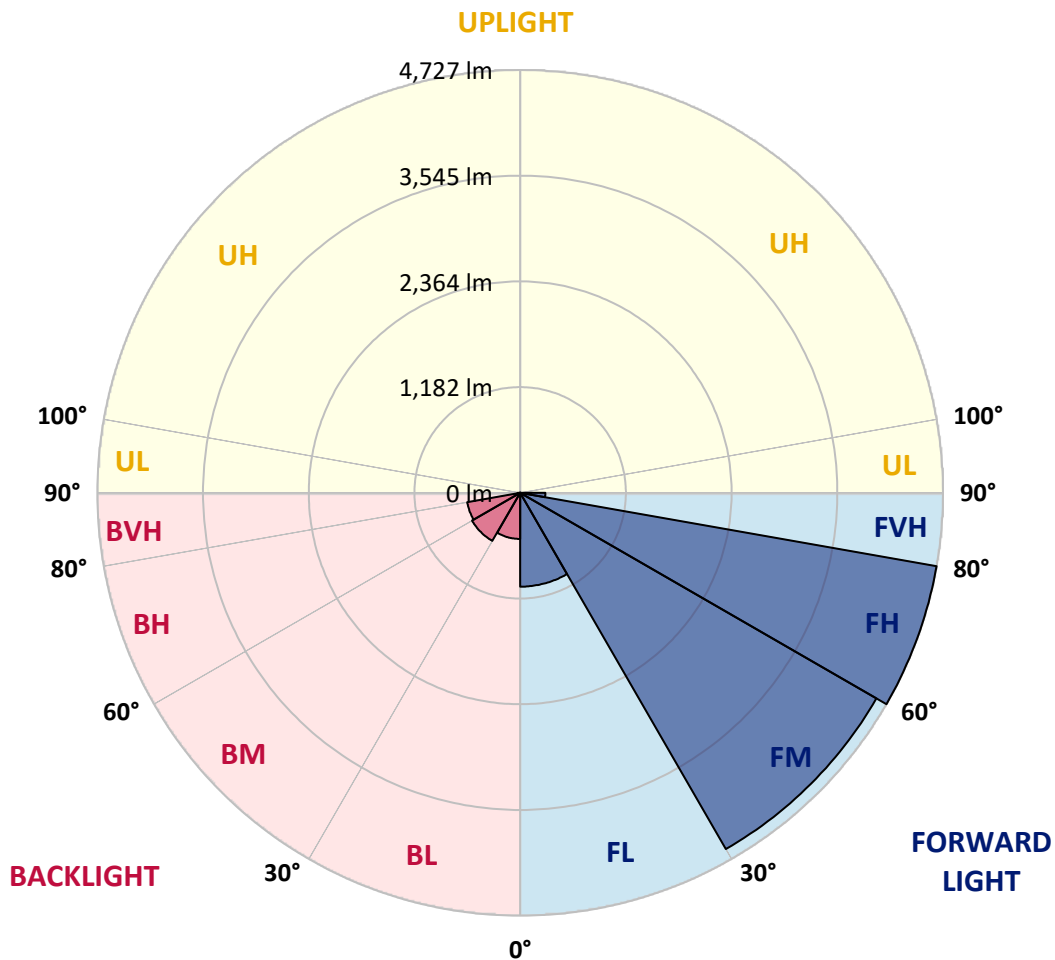
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1049.0	8.4			
FM	(30°-60°)	4598.6	37.0			
FH	(60°-80°)	4727.1	38.0			G2/5000
FVH	(80°-90°)	281.7	2.3			G3/500
BL	(0°-30°)	515.6	4.2	B2/1000		
BM	(30°-60°)	621.0	5.0	B1/1000		
BH	(60°-80°)	600.9	4.8	B2/1000		G2/1000
BVH	(80°-90°)	30.0	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	3165.8	3165.8	3165.8	3165.8	3165.8	3165.8	3165.8	3165.8	3165.8	3165.8	3165.8
2.5°	3230.6	3237.8	3234.8	3233.0	3238.4	3230.0	3212.6	3207.2	3198.8	3179.0	3145.4
5°	3109.4	3131.0	3129.8	3146.0	3173.0	3180.2	3172.4	3173.6	3158.0	3133.4	3077.6
7.5°	2900.0	2909.0	2913.8	2949.2	2998.4	3038.0	3071.6	3082.4	3075.2	3054.2	2982.2
10°	2683.9	2691.1	2702.5	2743.9	2806.3	2860.9	2924.6	2961.2	2976.8	2973.2	2892.8
12.5°	2498.5	2505.7	2520.7	2567.5	2641.9	2709.1	2801.5	2847.1	2884.4	2906.6	2820.1
15°	2332.2	2347.8	2362.2	2416.2	2499.7	2587.9	2692.3	2749.9	2807.5	2857.3	2755.9
17.5°	2202.6	2218.2	2226.6	2275.8	2364.6	2472.6	2595.1	2662.9	2734.9	2816.5	2692.3
20°	2127.6	2134.8	2131.2	2158.8	2238.6	2353.2	2498.5	2577.1	2664.1	2778.1	2628.7
22.5°	2106.5	2107.1	2093.9	2090.9	2142.6	2239.2	2395.2	2490.6	2597.5	2752.9	2574.1
25°	2157.6	2155.8	2119.8	2090.3	2095.7	2152.2	2295.6	2406.6	2541.7	2747.5	2532.1
27.5°	2271.0	2276.4	2223.0	2167.8	2113.1	2111.3	2220.0	2337.0	2496.0	2772.1	2514.1
30°	2430.0	2439.0	2382.0	2311.8	2209.2	2124.6	2190.6	2295.6	2467.8	2823.1	2511.1
32.5°	2604.1	2613.7	2570.5	2496.6	2362.2	2206.2	2211.0	2299.2	2466.6	2894.6	2531.5
35°	2789.5	2800.3	2778.1	2715.7	2566.3	2356.8	2289.0	2357.4	2505.7	3003.8	2586.1
37.5°	2996.6	3013.4	3019.4	2960.0	2800.3	2555.5	2416.8	2467.8	2593.9	3155.6	2686.3
40°	3294.9	3318.3	3316.5	3231.2	3068.6	2823.7	2614.3	2627.5	2731.3	3358.5	2846.5
42.5°	3866.2	3871.0	3721.6	3536.1	3363.9	3105.8	2847.1	2836.3	2921.0	3615.3	3082.4
45°	4593.0	4573.2	4240.7	3882.4	3672.4	3429.9	3150.2	3097.4	3161.6	3928.6	3377.7
47.5°	5196.2	5150.5	4730.4	4235.9	3998.8	3782.2	3506.1	3413.7	3449.1	4283.9	3759.4
50°	5405.6	5371.4	5023.3	4530.0	4307.9	4211.9	3944.2	3813.4	3823.0	4707.6	4206.5
52.5°	5360.6	5355.8	5123.5	4723.8	4597.2	4663.2	4564.8	4387.7	4294.1	5178.1	4689.0
55°	5254.4	5264.6	5180.5	4949.5	4927.9	5098.9	5375.6	5244.8	4953.7	5652.9	5187.8
57.5°	4885.3	4911.7	5096.5	5233.4	5460.2	5714.7	6028.6	5991.4	5663.7	6166.0	5780.7
60°	3935.8	3997.0	4492.8	5178.1	6008.2	6804.0	6944.4	6858.0	6395.9	6802.8	6563.9
62.5°	2757.7	2821.3	3410.7	4483.2	5918.1	8034.3	8581.6	8208.9	7447.3	7740.8	7577.6
65°	1476.4	1507.0	1957.1	3110.6	4996.3	8288.2	10974.5	10407.3	9112.2	8897.3	8444.8
67.5°	814.4	831.2	1003.5	1570.6	3200.0	7298.5	12498.9	12927.4	11192.9	9667.3	8287.0
69°	736.4	752.0	864.8	1189.5	2141.4	6034.6	12350.0	13591.7	12105.2	9591.1	7703.6
70°	720.2	734.6	836.0	1096.5	1733.3	4974.1	11851.3	13421.9	12322.4	9318.0	7194.7
72.5°	648.2	663.8	762.2	984.9	1481.2	2479.8	9387.6	11348.4	11187.5	8079.3	5457.2
75°	604.4	618.8	785.6	964.5	1418.2	1569.4	6188.8	8363.8	8223.9	5651.7	2942.6
77.5°	258.7	257.5	364.3	816.2	1439.2	1519.6	3325.5	5225.0	4767.0	2415.6	845.0
80°	172.8	169.8	172.8	240.1	1319.7	1528.0	1742.3	2652.1	2003.3	615.8	416.5
82.5°	148.8	146.4	151.8	146.4	463.9	1744.1	1481.2	1410.4	952.4	349.9	206.5
85°	100.2	96.0	130.8	131.4	219.1	1549.6	1668.4	1191.3	770.6	207.7	102.0
87.5°	48.0	46.8	76.2	93.0	128.4	629.6	1871.9	1220.7	777.2	106.2	48.6
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°	3165.8	3165.8	3165.8	3165.8	3165.8	3165.8	3165.8	3165.8	3165.8	3165.8	3165.8
2.5°	3135.2	3110.6	3086.6	3057.8	3027.8	2994.2	2977.4	2960.6	2956.4	2951.6	2934.8
5°	3048.8	3014.0	2954.0	2888.0	2818.3	2750.5	2698.9	2666.5	2641.9	2629.3	2607.1
7.5°	2937.2	2886.2	2781.1	2667.1	2550.1	2443.2	2350.8	2292.6	2237.4	2211.6	2182.2
10°	2830.9	2754.7	2591.5	2423.4	2255.4	2093.9	1942.1	1834.7	1739.3	1685.8	1648.0
12.5°	2739.7	2635.3	2409.0	2181.6	1951.1	1721.2	1493.8	1314.9	1165.5	1086.9	1046.7
15°	2650.9	2524.9	2235.6	1946.9	1651.0	1338.3	1039.5	836.6	713.0	663.8	647.0
17.5°	2570.5	2409.0	2061.5	1710.4	1341.3	963.3	698.6	587.0	539.5	523.3	517.9
20°	2483.4	2292.0	1880.9	1463.2	1018.5	673.4	545.5	496.3	477.1	472.3	469.9
22.5°	2399.4	2176.8	1708.0	1198.5	731.6	519.7	468.7	448.3	445.3	449.5	449.5
25°	2328.0	2073.5	1521.4	921.8	537.1	437.5	419.5	414.7	426.1	441.7	444.7
27.5°	2274.6	1988.9	1322.7	680.6	427.9	380.5	379.9	387.7	415.9	445.9	451.9
30°	2238.0	1908.5	1110.3	490.9	358.9	334.9	344.5	361.3	402.7	445.3	456.7
32.5°	2219.4	1849.1	888.8	379.9	307.3	294.1	310.3	330.7	371.5	411.1	426.1
35°	2233.8	1805.3	680.0	316.9	271.3	261.1	277.9	297.7	321.7	338.5	349.9
37.5°	2287.8	1787.9	513.1	283.9	246.7	237.1	250.3	261.7	271.3	276.1	281.5
40°	2404.2	1806.5	411.1	267.1	232.9	220.9	226.3	230.5	236.5	241.3	243.7
42.5°	2575.9	1862.3	368.5	260.5	225.7	208.3	207.1	208.9	216.7	225.7	227.5
45°	2815.9	1960.7	365.5	264.7	222.1	198.1	192.7	195.1	207.1	220.9	223.3
47.5°	3122.6	2110.7	389.5	277.3	225.1	192.7	183.6	186.6	201.7	220.3	223.3
50°	3494.1	2320.2	429.7	295.9	238.3	193.9	180.6	182.4	198.1	218.5	221.5
52.5°	3932.8	2617.3	473.5	313.9	252.1	201.7	183.0	178.8	193.3	211.3	214.9
55°	4420.8	2998.4	518.5	330.1	259.3	211.3	187.8	174.0	184.2	199.3	202.3
57.5°	5019.7	3531.3	596.6	345.7	264.1	217.9	192.7	169.2	172.8	183.6	186.0
60°	5830.5	4285.1	734.0	371.5	274.9	220.3	192.0	165.0	161.4	167.4	168.6
62.5°	6802.2	5103.7	848.6	403.9	292.9	222.1	188.4	162.0	151.8	151.8	153.0
65°	7378.9	5322.8	785.0	430.9	307.9	220.3	184.2	159.0	144.6	138.0	138.6
67.5°	6889.8	4681.2	672.8	436.3	307.3	211.9	177.6	153.6	137.4	127.2	126.6
69°	6277.0	4039.1	622.4	421.9	292.9	201.1	169.2	147.6	132.0	121.2	120.6
70°	5783.1	3647.1	589.4	406.3	277.3	193.3	162.6	142.2	127.8	117.6	116.4
72.5°	4204.7	2389.8	503.5	349.3	228.7	162.0	140.4	124.8	114.0	108.0	106.8
75°	2101.1	1139.7	408.7	283.3	175.2	129.6	115.2	104.4	99.0	97.8	97.2
77.5°	690.2	522.1	292.3	211.3	130.2	101.4	93.0	85.2	84.0	87.6	86.4
80°	379.3	303.7	185.4	139.8	88.8	74.4	73.2	69.0	70.8	76.8	75.6
82.5°	193.3	157.8	114.6	84.0	60.0	53.4	58.2	55.8	58.2	63.6	63.0
85°	95.4	86.4	72.6	51.0	39.6	34.2	41.4	43.2	44.4	48.6	48.6
87.5°	55.2	51.0	38.4	24.0	19.8	18.0	24.0	23.4	27.6	30.0	29.4
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)