

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: P301219

Luminaire Tested: **GLNA-AF-04-LED-E1-T3R-7030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P301219
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P194839)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLNA-AF-04-LED-E1-T3R-7030-600
Description: GALLEONAIRE AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K CCT 600mA LIGHTSQUARE WITH 16 LEDS EACH AND Type III
Roadway OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15588.6 lumens
Efficiency: N/A
Efficacy: 120.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B2 - U0 - G3

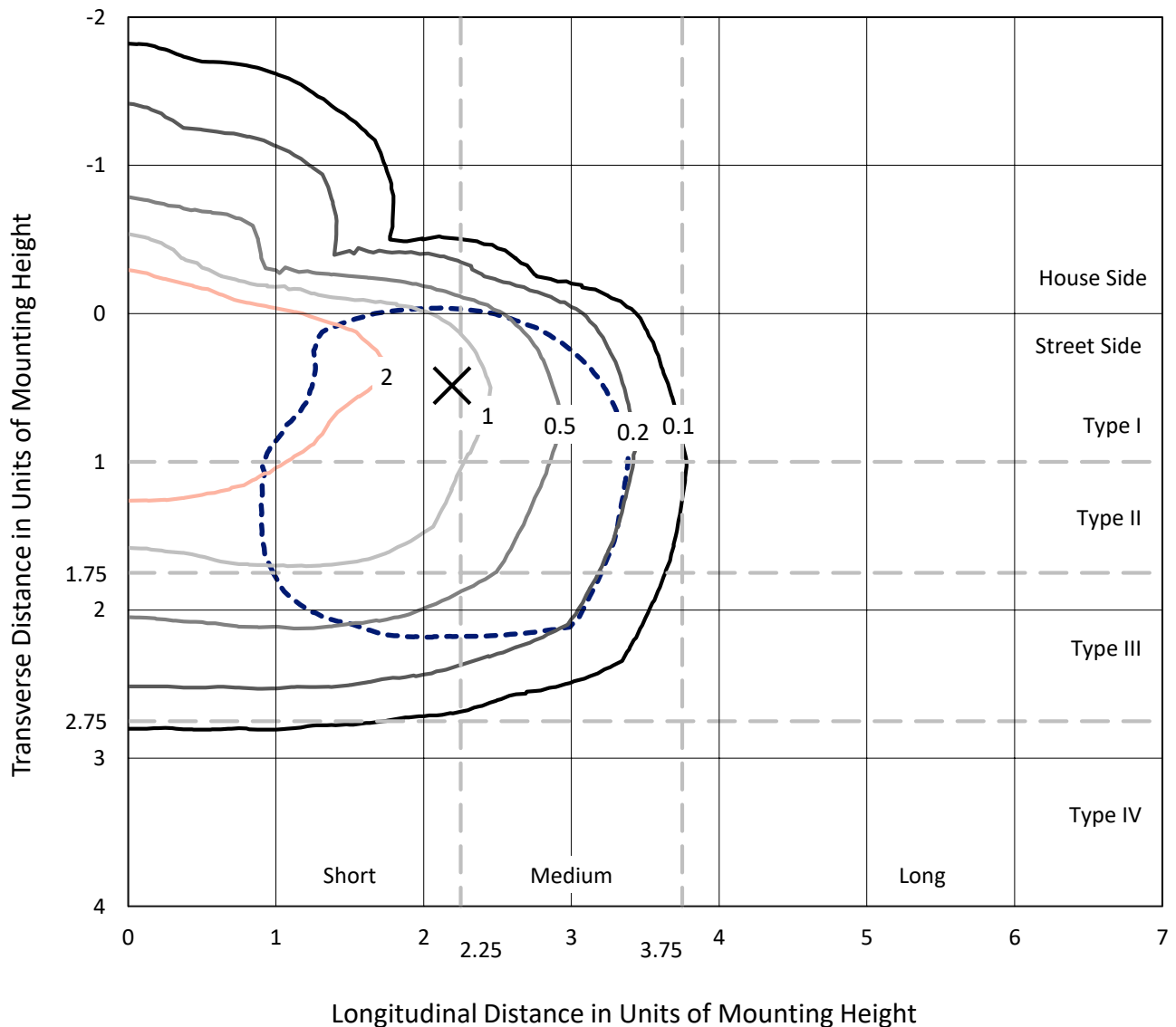
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

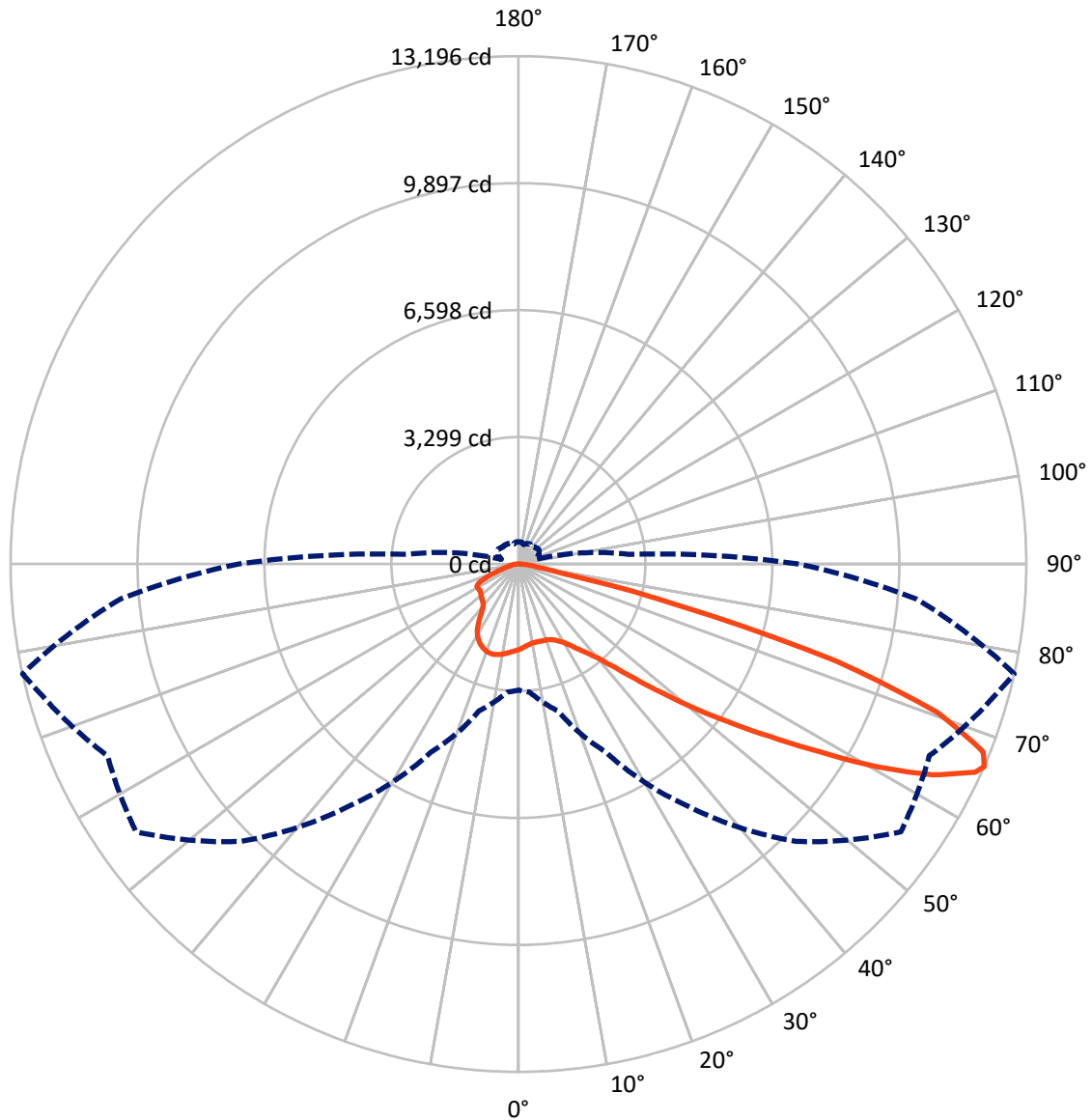
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 77.5-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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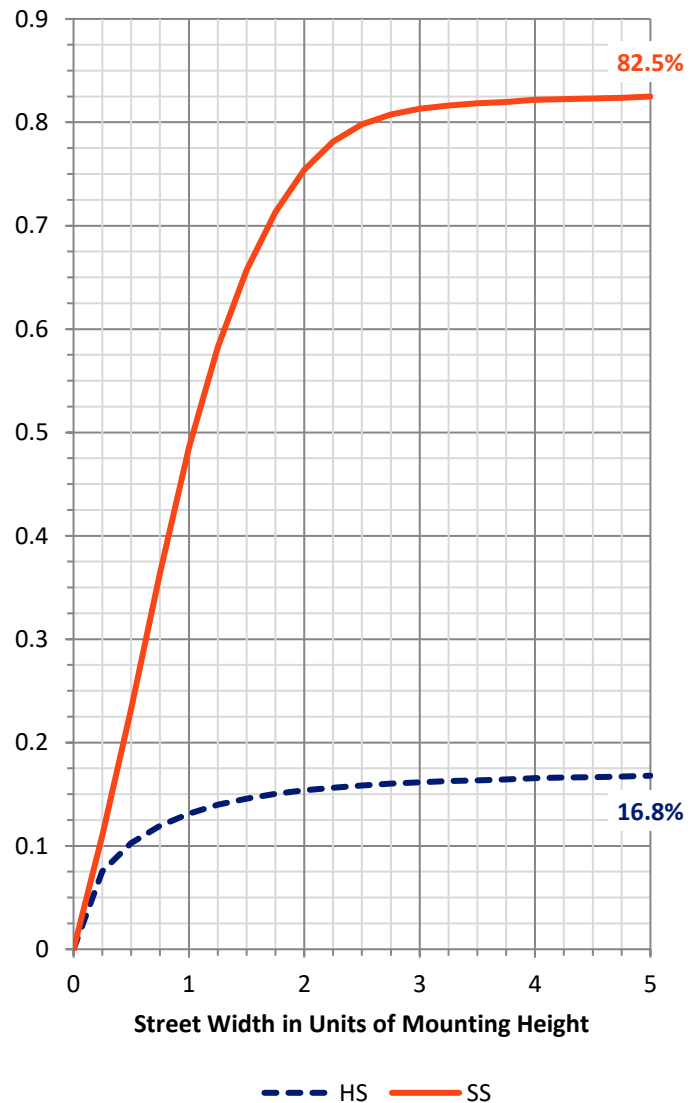
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2663.2	0.0	2663.2
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	12925.4	0.0	12925.4
	% Fixture	82.9	0.0	82.9
Total	Lumens	15588.6	0.0	15588.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	198.5	1.3
10°-20°	559.9	3.6
20°-30°	955.6	6.1
30°-40°	1529.7	9.8
40°-50°	2363.3	15.2
50°-60°	3351.9	21.5
60°-70°	4483.9	28.8
70°-80°	1947.3	12.5
80°-90°	198.6	1.3
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°	15588.6	100.0
0°-180°	15588.6	100.0



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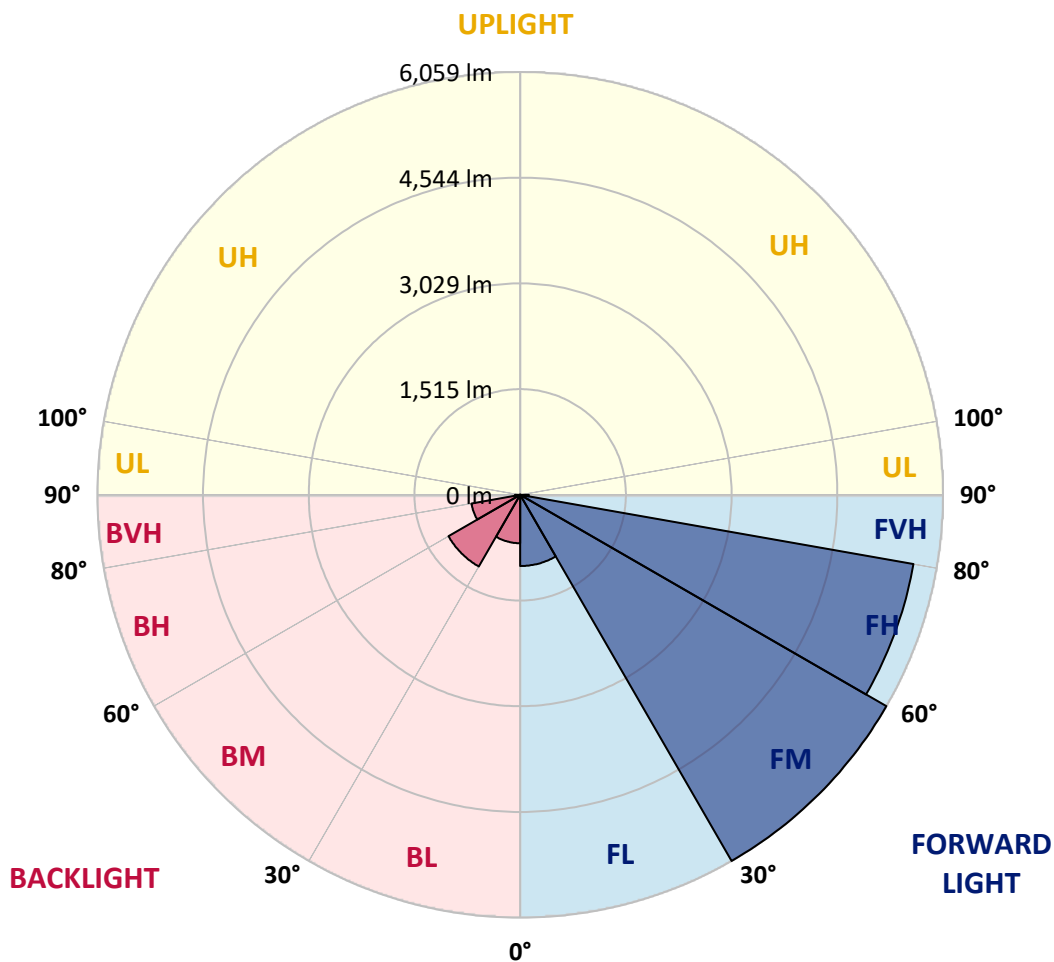
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1020.3	6.5			
FM	(30°-60°)	6058.6	38.9			
FH	(60°-80°)	5722.0	36.7			G3/7500
FVH	(80°-90°)	124.5	0.8			G2/225
BL	(0°-30°)	693.6	4.4	B2/1000		
BM	(30°-60°)	1186.3	7.6	B2/2500		
BH	(60°-80°)	709.3	4.5	B2/1000		G2/1000
BVH	(80°-90°)	74.0	0.5			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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77.5°	85°
0°	2221.4	2221.4	2221.4	2221.4	2221.4	2221.4	2221.4	2221.4	2221.4	2221.4	2221.4
2.5°	1965.2	1978.4	1989.5	1999.8	2020.3	2054.2	2093.2	2124.9	2170.6	2179.5	2203.8
5°	1784.8	1784.8	1793.5	1809.1	1837.0	1887.8	1940.9	2011.6	2111.0	2134.5	2199.4
7.5°	1697.1	1697.8	1702.9	1716.1	1740.4	1786.8	1845.0	1928.4	2063.1	2102.1	2212.5
10°	1729.5	1722.1	1711.0	1704.5	1708.1	1735.3	1790.6	1883.3	2033.7	2083.6	2242.2
12.5°	1910.6	1896.7	1858.4	1807.5	1758.9	1739.1	1771.4	1861.9	2021.2	2079.4	2281.2
15°	2206.7	2200.9	2129.3	2024.1	1906.3	1807.5	1785.4	1853.9	2022.5	2084.5	2327.6
17.5°	2578.0	2569.8	2475.7	2322.5	2130.2	1938.0	1834.7	1860.6	2027.6	2093.2	2372.4
20°	2952.9	2927.7	2826.2	2643.6	2396.7	2115.3	1916.6	1877.5	2034.3	2102.8	2419.7
22.5°	3232.8	3212.1	3120.8	2943.3	2659.0	2320.9	2026.3	1907.0	2055.7	2130.9	2477.7
25°	3478.8	3480.1	3389.6	3218.1	2924.1	2539.0	2167.7	1985.7	2110.2	2188.2	2557.3
27.5°	3783.0	3765.4	3680.6	3510.5	3186.4	2759.1	2338.5	2094.1	2191.3	2270.1	2661.9
30°	4146.7	4134.2	4036.3	3843.4	3477.2	2995.5	2533.7	2219.9	2295.9	2377.5	2798.8
32.5°	4574.7	4568.9	4467.2	4219.0	3813.1	3274.1	2762.9	2386.5	2452.0	2536.8	2995.5
35°	5077.1	5077.8	4957.8	4659.4	4180.6	3598.1	3022.7	2600.8	2642.0	2730.4	3229.9
37.5°	5386.4	5423.9	5379.1	5074.9	4596.7	3960.5	3360.1	2885.1	2858.6	2947.8	3481.0
40°	5452.7	5498.4	5640.5	5485.9	5062.4	4359.7	3659.2	3158.3	3125.3	3234.1	3804.4
42.5°	5359.9	5423.2	5723.9	5832.7	5556.6	4851.7	4061.3	3564.2	3522.3	3668.8	4206.5
45°	5304.6	5351.9	5699.5	6013.3	5985.2	5407.8	4573.3	4073.8	4058.4	4250.6	4670.6
47.5°	5208.9	5251.7	5586.0	6055.3	6237.2	5917.4	5188.4	4697.1	4727.2	4979.2	5194.2
50°	5260.4	5278.1	5459.4	5948.4	6310.2	6291.0	5875.5	5418.8	5522.0	5836.5	5787.2
52.5°	5253.1	5298.8	5444.6	5773.1	6319.7	6521.6	6552.4	6223.9	6441.3	6802.1	6444.9
55°	4247.1	4330.9	5271.6	5729.0	6353.4	6747.5	7154.9	7072.4	7477.4	7898.0	7187.3
57.5°	4055.5	4108.6	4630.0	5821.8	6533.2	7179.2	7825.1	8006.4	8683.9	9172.3	8091.8
60°	4017.8	4083.4	4623.3	5935.3	6897.8	7882.6	8818.8	9137.1	10152.0	10686.8	9140.6
62.5°	3900.7	3971.4	4579.8	5920.3	7415.6	8855.6	10090.9	10339.1	11544.1	12064.1	10018.0
65°	3529.6	3595.9	4225.7	5682.6	7764.9	9894.2	11596.2	11441.0	12643.1	13034.0	10455.3
66°	3275.4	3340.3	3946.4	5402.7	7683.7	10188.8	12129.7	11782.0	12889.0	13195.5	10369.9
67.5°	2810.6	2861.5	3404.3	4775.8	7252.8	10271.3	12578.2	12038.3	12914.7	13023.1	9881.7
70°	1775.9	1790.6	2212.5	3296.8	5490.4	8907.8	11895.3	11402.0	11849.8	11556.5	8284.0
72.5°	770.5	765.4	1062.2	1677.1	3108.4	5977.2	9622.4	9408.0	9295.4	8626.6	5799.0
75°	428.6	434.7	551.7	778.5	1263.1	2936.0	6294.5	6023.6	5085.8	4339.8	2629.5
77.5°	343.9	352.1	457.4	552.4	567.1	1023.9	2945.6	2396.7	1442.9	1157.9	730.6
80°	271.9	286.6	399.2	430.2	382.2	421.9	951.6	760.9	570.9	523.6	378.7
82.5°	215.0	225.5	342.5	325.6	267.4	284.3	455.8	444.2	371.3	338.1	218.8
85°	154.8	173.7	281.4	245.3	175.3	191.6	302.6	290.1	212.8	173.7	96.6
87.5°	63.3	82.5	198.9	162.8	97.9	89.2	151.0	142.1	100.8	73.6	47.9
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°	2221.4	2221.4	2221.4	2221.4	2221.4	2221.4	2221.4	2221.4	2221.4	2221.4	2221.4
2.5°	2219.2	2236.8	2259.8	2273.8	2281.2	2286.3	2294.4	2293.7	2295.9	2296.6	2299.5
5°	2233.9	2263.4	2296.6	2305.5	2305.5	2297.3	2289.2	2275.9	2270.7	2269.4	2270.7
7.5°	2272.3	2304.6	2333.4	2323.1	2301.1	2268.5	2226.6	2189.8	2169.9	2163.2	2161.9
10°	2320.9	2359.9	2371.7	2332.7	2267.8	2189.8	2106.6	2046.1	2011.6	2002.0	1999.1
12.5°	2379.8	2416.6	2400.5	2318.0	2197.8	2072.0	1956.9	1860.6	1788.3	1765.6	1764.0
15°	2444.7	2473.4	2416.6	2272.3	2093.2	1907.7	1702.9	1536.6	1446.7	1417.9	1415.7
17.5°	2505.1	2519.8	2407.0	2192.7	1939.3	1638.9	1367.1	1238.8	1208.1	1215.4	1216.8
20°	2556.6	2556.6	2374.6	2078.5	1697.1	1284.6	1112.8	1110.8	1132.9	1155.0	1159.4
22.5°	2613.3	2579.4	2318.0	1917.2	1353.7	1051.1	1026.1	1046.6	1071.6	1095.9	1099.7
25°	2683.3	2597.9	2239.1	1672.8	1064.2	954.5	964.1	981.0	993.5	1009.1	1011.4
27.5°	2761.3	2621.3	2135.4	1336.1	923.7	894.3	901.6	907.4	905.9	911.9	913.2
30°	2854.8	2648.7	1993.1	1044.4	865.5	842.5	829.4	824.3	824.3	833.8	837.4
32.5°	2980.1	2689.1	1789.0	895.0	837.4	805.7	763.2	744.0	751.3	783.7	791.0
35°	3117.9	2732.6	1512.9	844.1	831.6	788.8	722.6	687.1	688.0	718.1	727.7
37.5°	3268.0	2787.9	1210.1	834.5	844.8	789.7	701.2	652.5	632.7	632.7	636.5
40°	3460.3	2844.5	979.7	841.2	872.9	798.4	690.2	625.3	569.4	570.9	573.8
42.5°	3710.7	2893.2	855.9	855.0	906.8	810.2	689.3	589.2	540.6	573.8	603.9
45°	3989.3	2917.5	801.3	867.7	934.0	817.6	677.7	583.4	544.4	642.9	700.5
47.5°	4309.5	2903.4	771.2	872.0	940.7	817.6	664.4	597.5	570.0	744.6	811.8
50°	4661.0	2863.0	741.7	863.3	938.4	816.0	676.8	611.3	579.6	762.3	808.6
52.5°	5074.2	2829.1	710.7	844.1	922.8	808.0	691.6	605.5	549.5	693.1	725.5
55°	5545.4	2838.7	676.2	816.9	898.5	792.6	686.4	581.8	517.8	610.6	630.5
57.5°	6148.0	2952.9	634.9	782.3	865.5	766.7	668.1	570.9	508.2	554.0	565.8
60°	6820.4	3151.6	583.4	747.5	824.3	725.5	654.1	576.0	512.7	549.5	555.3
62.5°	7313.9	3267.4	539.2	696.7	768.3	679.7	636.5	582.5	524.5	564.9	563.6
65°	7448.0	3077.4	483.9	622.4	692.5	632.0	614.2	589.9	529.7	577.4	570.9
66°	7260.2	2872.6	459.6	587.9	654.1	608.4	603.3	589.2	527.4	578.9	567.8
67.5°	6804.4	2452.7	417.7	537.0	593.0	573.1	585.6	582.5	521.4	577.4	562.0
70°	5549.2	1673.5	357.3	447.1	493.5	504.5	551.7	559.1	502.2	551.7	517.8
72.5°	3877.3	1019.4	316.0	347.0	399.2	430.2	505.3	526.5	476.6	481.7	449.4
75°	1873.8	541.5	286.6	269.0	310.0	359.5	449.4	482.4	436.0	403.0	391.2
77.5°	584.1	330.7	243.1	216.5	243.1	290.1	375.6	422.8	388.3	337.4	333.0
80°	313.8	243.1	187.1	173.7	192.2	227.7	295.3	352.8	333.6	302.6	270.3
82.5°	207.0	157.7	138.5	134.7	146.5	173.7	219.4	292.4	292.4	259.4	188.7
85°	106.8	96.6	95.0	95.0	102.4	115.7	149.4	225.5	240.2	136.9	113.5
87.5°	53.1	55.3	51.5	53.7	57.5	56.6	71.4	113.5	135.6	83.2	69.1
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)