

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: P193796

Luminaire Tested: **GLEON-AF-08-LED-E1-SL4-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193796
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24294)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-08-LED-E1-SL4-8030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36989 lumens
Efficiency: N/A
Efficacy: 83.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G5

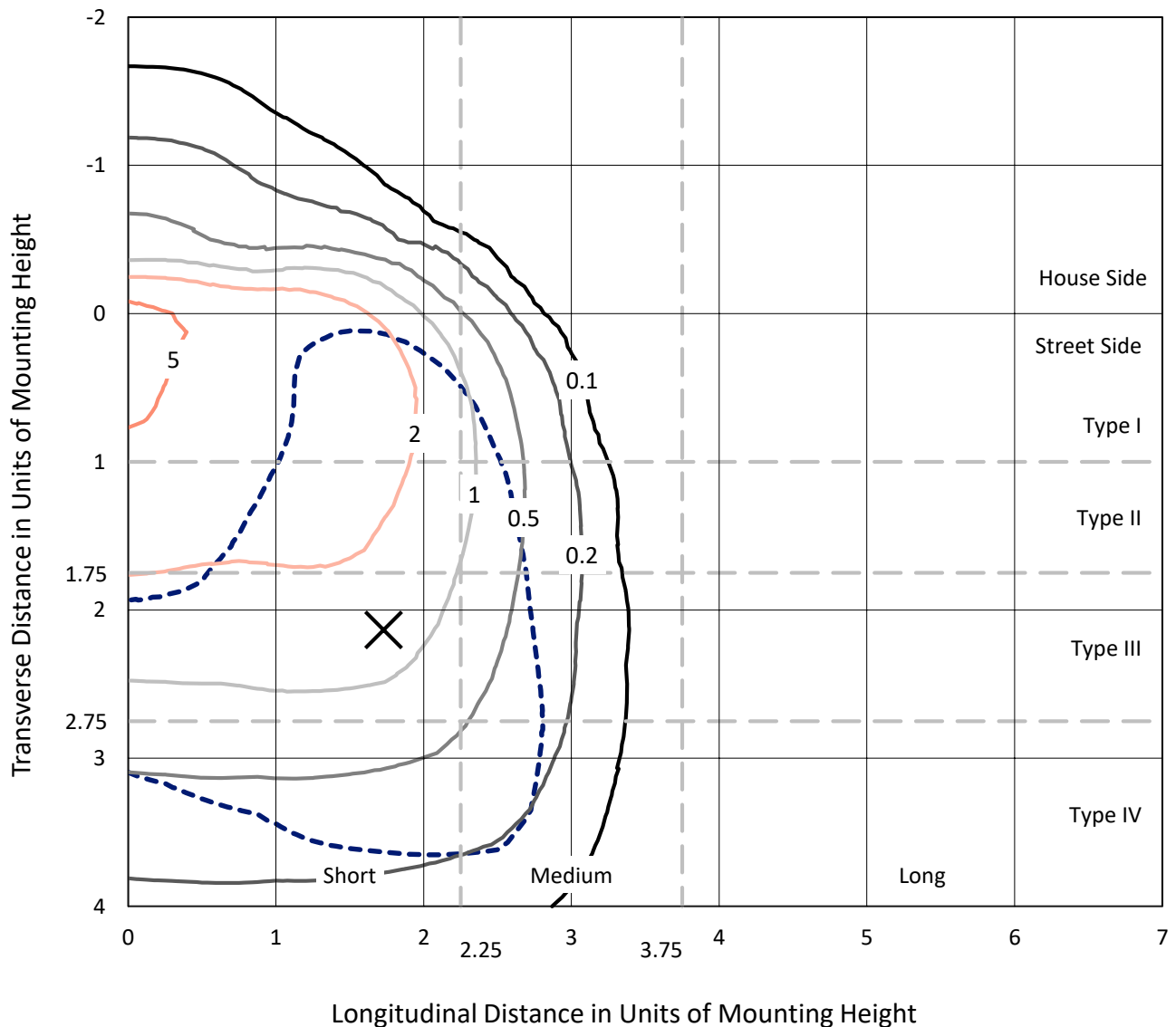
Input Watts (W): 445
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

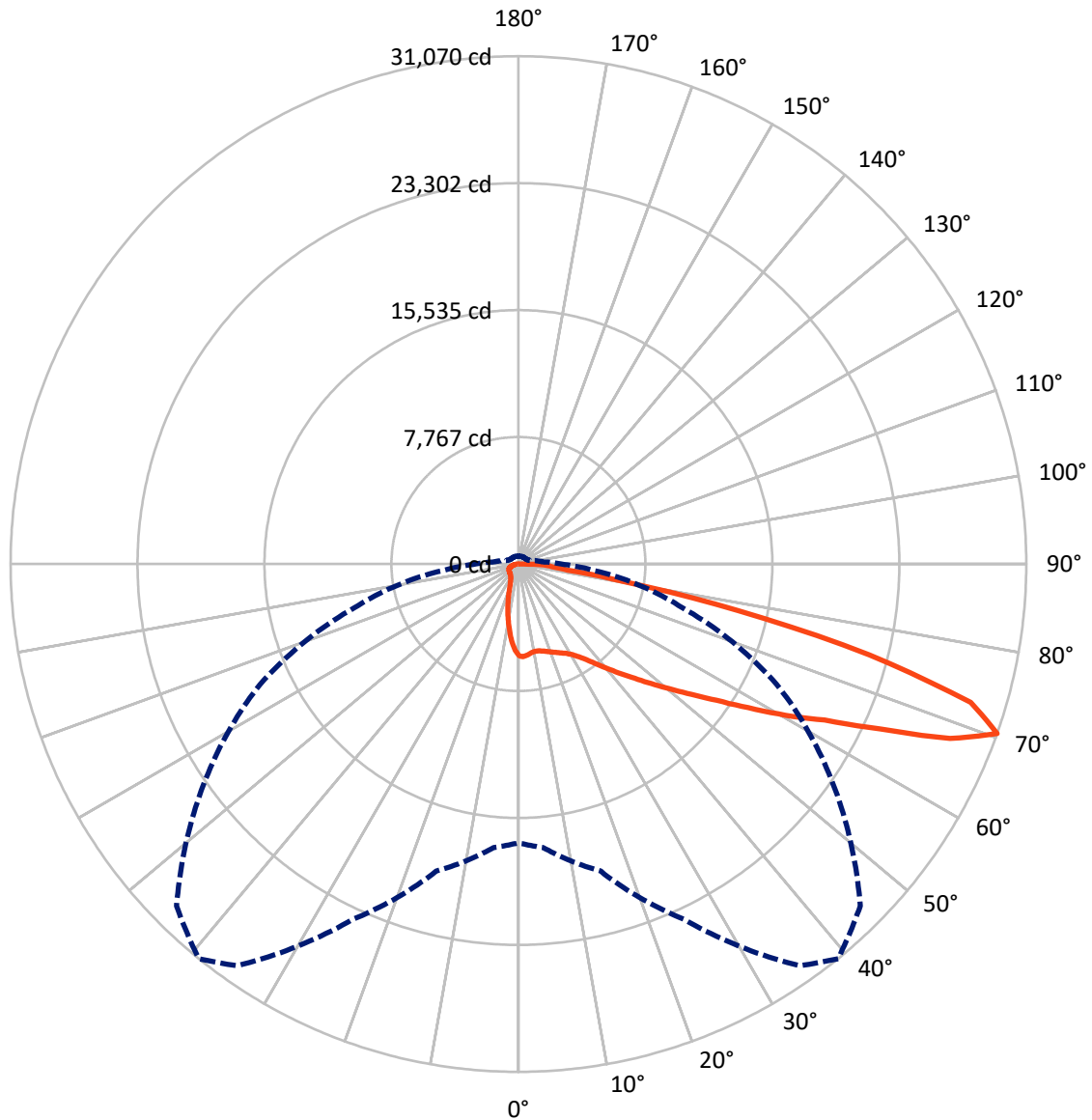
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.2 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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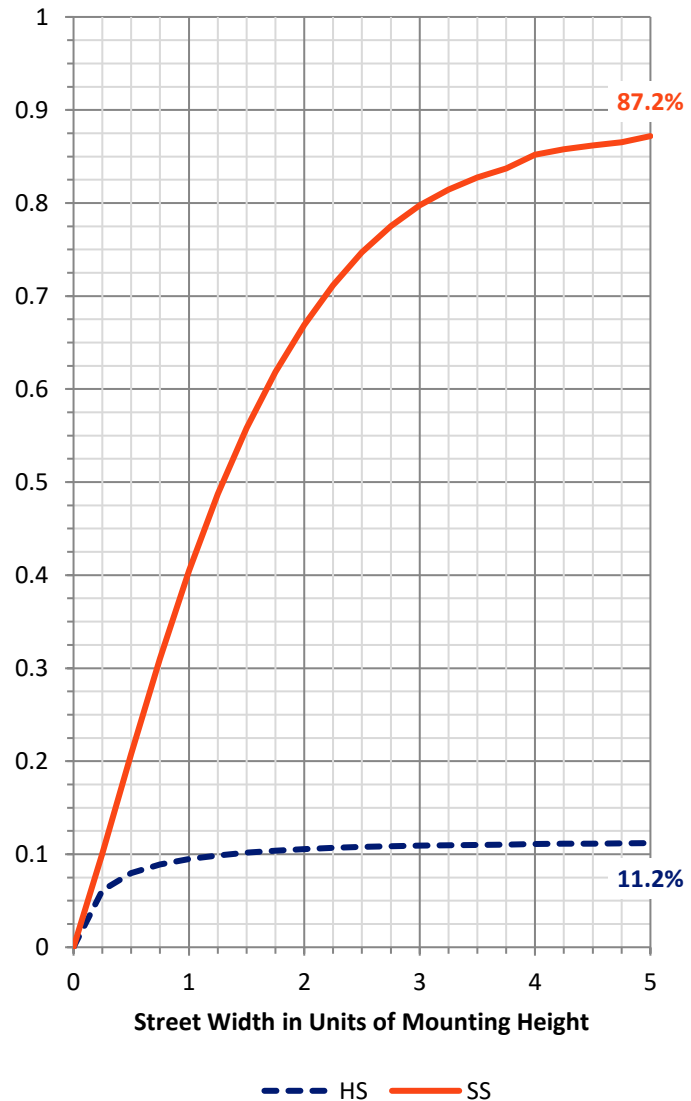
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4206.9	0.0	4206.9
	% Fixture	11.4	0.0	11.4
Street Side	Lumens	32782.1	0.0	32782.1
	% Fixture	88.6	0.0	88.6
Total	Lumens	36989.0	0.0	36989.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	481.9	1.3
10°-20°	1204.6	3.3
20°-30°	1875.6	5.1
30°-40°	2921.9	7.9
40°-50°	4905.3	13.3
50°-60°	7792.5	21.1
60°-70°	10394.3	28.1
70°-80°	6276.9	17.0
80°-90°	1136.0	3.1
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°	36989.0	100.0
0°-180°	36989.0	100.0



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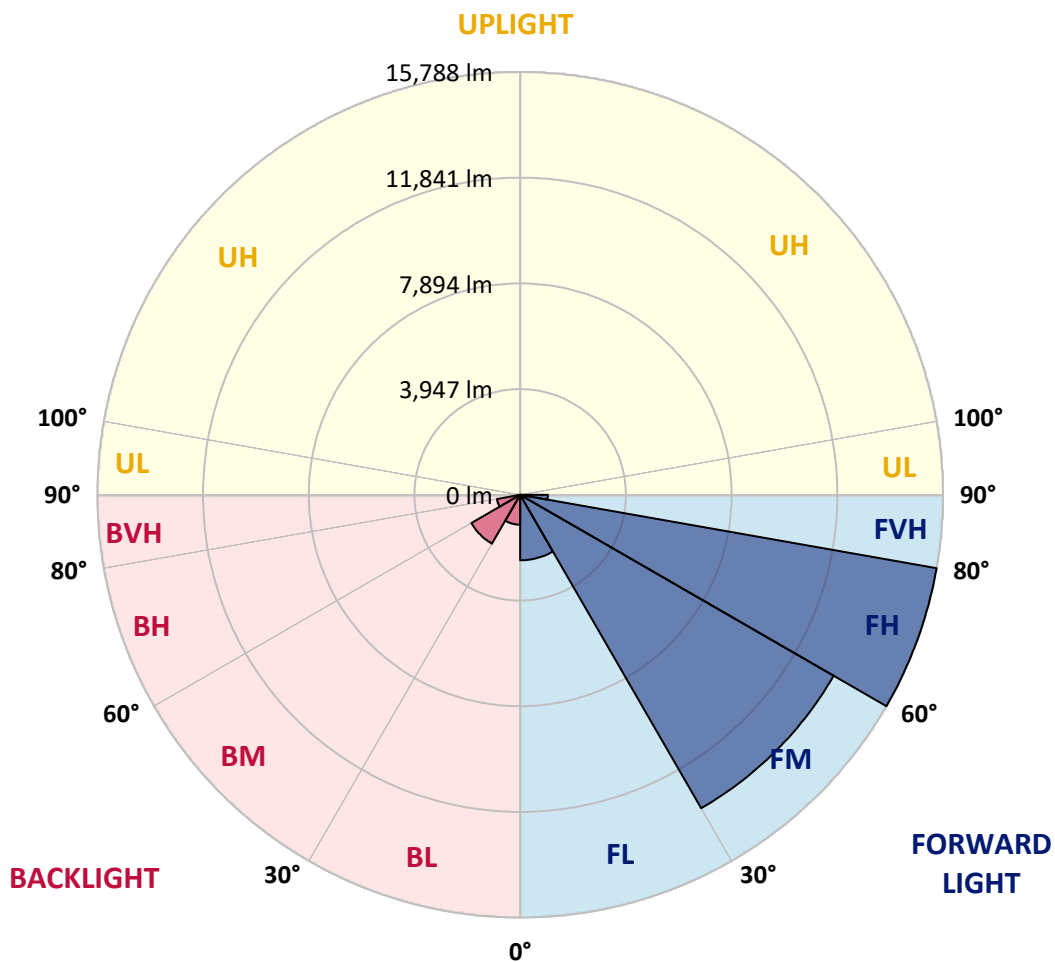
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2446.1	6.6			
FM	(30°-60°)	13514.4	36.5			
FH	(60°-80°)	15788.0	42.7			G5
FVH	(80°-90°)	1033.6	2.8			G5
BL	(0°-30°)	1116.0	3.0	B3/2500		
BM	(30°-60°)	2105.3	5.7	B2/2500		
BH	(60°-80°)	883.2	2.4	B2/1000		G2/1000
BVH	(80°-90°)	102.4	0.3			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	5615.5	5615.5	5615.5	5615.5	5615.5	5615.5	5615.5	5615.5	5615.5	5615.5	5615.5
2.5°	5724.6	5722.7	5707.7	5696.4	5687.0	5683.2	5690.7	5662.5	5638.1	5608.0	5576.0
5°	5681.3	5679.4	5655.0	5632.4	5609.9	5602.3	5600.5	5549.7	5519.6	5474.5	5414.3
7.5°	5634.3	5624.9	5592.9	5555.3	5515.8	5497.0	5478.2	5412.4	5378.5	5333.4	5263.8
10°	5585.4	5574.1	5544.0	5506.4	5468.8	5440.6	5408.6	5344.7	5309.0	5275.1	5194.2
12.5°	5534.6	5525.2	5517.7	5500.8	5474.5	5450.0	5425.6	5371.0	5333.4	5293.9	5199.9
15°	5527.1	5523.4	5540.3	5551.6	5536.5	5521.5	5495.1	5448.1	5408.6	5369.1	5246.9
17.5°	5587.3	5585.4	5628.7	5658.8	5651.2	5624.9	5589.2	5536.5	5504.5	5470.7	5318.4
20°	5718.9	5728.3	5781.0	5820.5	5782.9	5745.3	5687.0	5613.6	5596.7	5581.7	5391.7
22.5°	5967.2	5976.6	6014.2	6029.2	5931.4	5876.9	5796.0	5702.0	5690.7	5702.0	5480.1
25°	6354.6	6345.2	6339.5	6283.1	6104.5	6019.8	5916.4	5818.6	5824.3	5875.0	5604.2
27.5°	6868.0	6817.2	6738.2	6569.0	6285.0	6191.0	6065.0	5974.7	6010.4	6108.2	5790.4
30°	7400.2	7343.8	7161.4	6884.9	6522.0	6418.5	6277.5	6175.9	6270.0	6424.2	6038.6
32.5°	7892.9	7885.4	7618.4	7262.9	6849.2	6758.9	6617.9	6503.2	6655.5	6890.6	6411.0
35°	8430.8	8447.7	8128.0	7701.1	7291.1	7197.1	7095.5	7009.0	7212.1	7535.6	6950.7
37.5°	9006.2	9040.1	8662.1	8180.7	7795.1	7755.6	7695.5	7657.8	7971.9	8419.5	7704.9
40°	9775.4	9741.6	9216.9	8722.3	8413.9	8412.0	8393.2	8438.3	8961.1	9574.2	8673.4
42.5°	10599.1	10499.4	9805.5	9303.4	9092.8	9156.7	9194.3	9378.6	10151.5	10977.1	9854.4
45°	11486.8	11263.0	10416.7	9918.3	9846.9	9982.3	10110.2	10510.7	11552.6	12573.8	11148.3
47.5°	12195.8	11979.5	11048.6	10563.4	10719.5	10924.5	11170.8	11804.6	13121.0	14223.1	12425.2
50°	12754.3	12613.3	11686.1	11315.6	11680.5	11996.4	12398.9	13269.6	14753.4	15829.1	13608.1
52.5°	13295.9	13190.6	12329.3	12086.7	12808.8	13245.1	13792.4	14841.8	16427.1	17408.8	14602.9
55°	13784.9	13709.7	13021.3	13047.7	14136.6	14704.5	15392.8	16632.1	18251.3	18817.4	15445.5
57.5°	14335.9	14240.0	13811.2	14253.1	15842.3	16579.5	17474.6	18644.4	19962.7	20069.9	16086.7
60°	14890.7	14807.9	14687.6	15644.8	18008.7	18783.5	19631.7	20594.6	21698.5	21042.2	16049.1
62.5°	15372.1	15381.5	15594.0	17106.0	20130.1	21027.1	22061.4	23013.0	23268.8	21211.4	14862.5
65°	16188.3	16336.9	16970.6	19174.7	23116.5	24316.3	25585.7	25433.4	23703.2	19629.8	12318.0
67.5°	17158.7	17420.1	18704.6	21931.7	26890.9	28483.7	28974.6	25980.6	21963.7	15957.0	8780.6
70°	17060.9	17420.1	19453.0	23987.2	30001.4	31069.6	29580.1	23513.3	17440.8	10424.2	4663.9
72.5°	15150.2	15663.6	17927.9	23045.0	29021.6	28927.6	25679.7	17529.2	10362.2	4186.2	1822.3
75°	11546.9	12066.0	14014.3	18206.2	22937.8	22148.0	18221.2	9683.3	3932.4	1662.5	1149.1
77.5°	6642.3	7044.8	8549.3	11165.2	14552.2	13741.6	10142.1	4306.6	1914.5	1158.5	897.1
80°	3708.6	3932.4	4846.3	5664.4	7131.3	6537.0	4537.9	2676.1	1429.3	840.6	692.1
82.5°	2931.9	3131.2	3919.2	3573.2	3257.2	3005.2	2606.5	2382.7	1141.5	530.3	413.7
85°	2561.4	2751.3	3317.4	2813.4	2224.8	2040.5	2117.6	2345.1	887.6	319.7	353.6
87.5°	2373.3	2627.2	2956.3	2168.3	1732.0	1534.6	1954.0	2570.8	285.9	199.3	142.9
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°	5615.5	5615.5	5615.5	5615.5	5615.5	5615.5	5615.5	5615.5	5615.5	5615.5	5615.5
2.5°	5547.8	5517.7	5468.8	5425.6	5357.9	5322.1	5282.6	5254.4	5231.9	5213.1	5243.1
5°	5376.7	5320.2	5216.8	5105.9	4974.2	4870.8	4784.3	4703.4	4647.0	4609.4	4635.7
7.5°	5214.9	5122.8	4961.1	4759.8	4534.2	4342.3	4184.4	4045.2	3949.3	3887.2	3911.7
10°	5122.8	5008.1	4757.9	4442.0	4109.1	3810.1	3561.9	3347.5	3198.9	3114.3	3127.5
12.5°	5100.2	4951.6	4605.6	4171.2	3716.1	3300.5	2950.7	2653.5	2444.8	2335.7	2339.5
15°	5117.1	4927.2	4462.7	3911.7	3336.2	2811.5	2375.2	2014.1	1771.5	1647.4	1645.5
17.5°	5145.4	4908.4	4312.2	3631.5	2950.7	2341.4	1854.3	1500.7	1286.3	1186.7	1179.1
20°	5175.4	4878.3	4143.0	3328.7	2550.1	1905.1	1451.8	1175.4	1040.0	985.4	981.7
22.5°	5218.7	4852.0	3968.1	3009.0	2157.1	1551.5	1194.2	1008.0	936.5	908.3	904.6
25°	5288.3	4838.8	3781.9	2676.1	1803.5	1297.6	1040.0	925.3	883.9	865.1	863.2
27.5°	5404.9	4857.6	3607.0	2352.6	1515.8	1126.5	953.5	883.9	853.8	836.9	835.0
30°	5555.3	4915.9	3422.7	2046.1	1292.0	1009.9	900.8	855.7	831.2	814.3	814.3
32.5°	5805.4	5013.7	3229.0	1780.9	1132.1	929.0	861.3	831.2	810.5	797.4	795.5
35°	6174.0	5198.0	3048.5	1560.9	1017.4	870.7	827.5	804.9	789.9	782.3	782.3
37.5°	6710.0	5489.5	2888.6	1402.9	947.8	831.2	795.5	778.6	769.2	769.2	769.2
40°	7430.3	5892.0	2758.9	1297.6	908.3	803.0	771.1	757.9	752.2	754.1	754.1
42.5°	8319.8	6414.8	2672.3	1224.3	889.5	786.1	754.1	742.8	737.2	735.3	737.2
45°	9333.5	7009.0	2662.9	1169.7	870.7	774.8	742.8	731.6	720.3	712.8	712.8
47.5°	10318.9	7612.7	2740.0	1150.9	850.0	761.6	733.4	722.2	705.2	688.3	688.3
50°	11189.6	8126.1	2843.5	1158.5	842.5	742.8	718.4	712.8	686.4	667.6	665.7
52.5°	11881.7	8521.0	2928.1	1181.0	850.0	729.7	699.6	701.5	673.3	652.6	650.7
55°	12436.5	8780.6	2905.5	1203.6	867.0	722.2	682.7	686.4	663.9	643.2	643.2
57.5°	12679.1	8684.7	2655.4	1184.8	880.1	724.0	669.5	684.5	665.7	646.9	646.9
60°	12158.1	7832.7	2187.2	1102.0	863.2	718.4	663.9	692.1	690.2	671.4	669.5
62.5°	10582.2	6307.6	1696.3	979.8	804.9	690.2	648.8	690.2	710.9	705.2	703.3
65°	8156.2	4492.8	1295.7	848.2	725.9	643.2	609.3	646.9	675.1	682.7	680.8
67.5°	5293.9	2753.2	998.6	724.0	637.5	588.6	558.5	575.5	581.1	581.1	577.3
70°	2602.8	1481.9	795.5	609.3	547.3	530.3	513.4	504.0	494.6	487.1	487.1
72.5°	1284.5	968.5	654.5	515.3	472.0	464.5	460.7	449.5	441.9	432.5	428.8
75°	949.7	788.0	556.7	434.4	406.2	398.7	406.2	396.8	394.9	387.4	383.6
77.5°	780.5	671.4	479.6	372.4	347.9	334.7	346.0	347.9	349.8	338.5	334.7
80°	633.8	567.9	400.6	308.4	285.9	276.4	284.0	299.0	302.8	285.9	278.3
82.5°	457.0	464.5	323.5	240.7	221.9	214.4	229.4	248.2	252.0	227.6	221.9
85°	383.6	387.4	248.2	171.1	152.3	141.0	165.5	184.3	197.5	173.0	167.4
87.5°	159.9	227.6	142.9	95.9	84.6	73.3	88.4	97.8	118.5	109.1	107.2
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)