

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: P192064

Luminaire Tested: **GLEON-AF-06-LED-E1-SL4-7050-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192064
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-06-LED-E1-SL4-7050-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 5000K, 1200mA 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: 37110 lumens
Efficiency: N/A
Efficacy: 97.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G5

Input Watts (W): 382
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

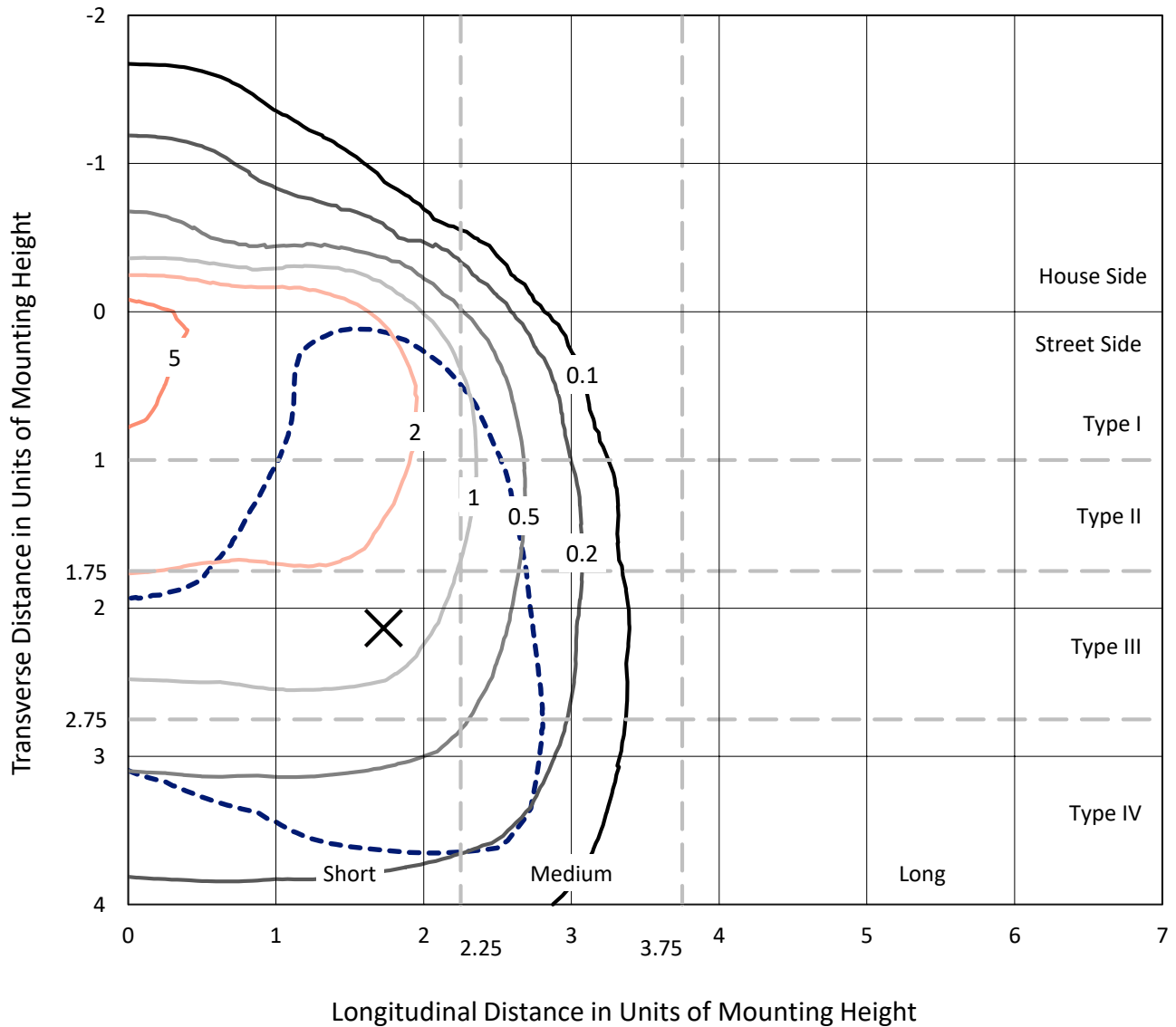


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

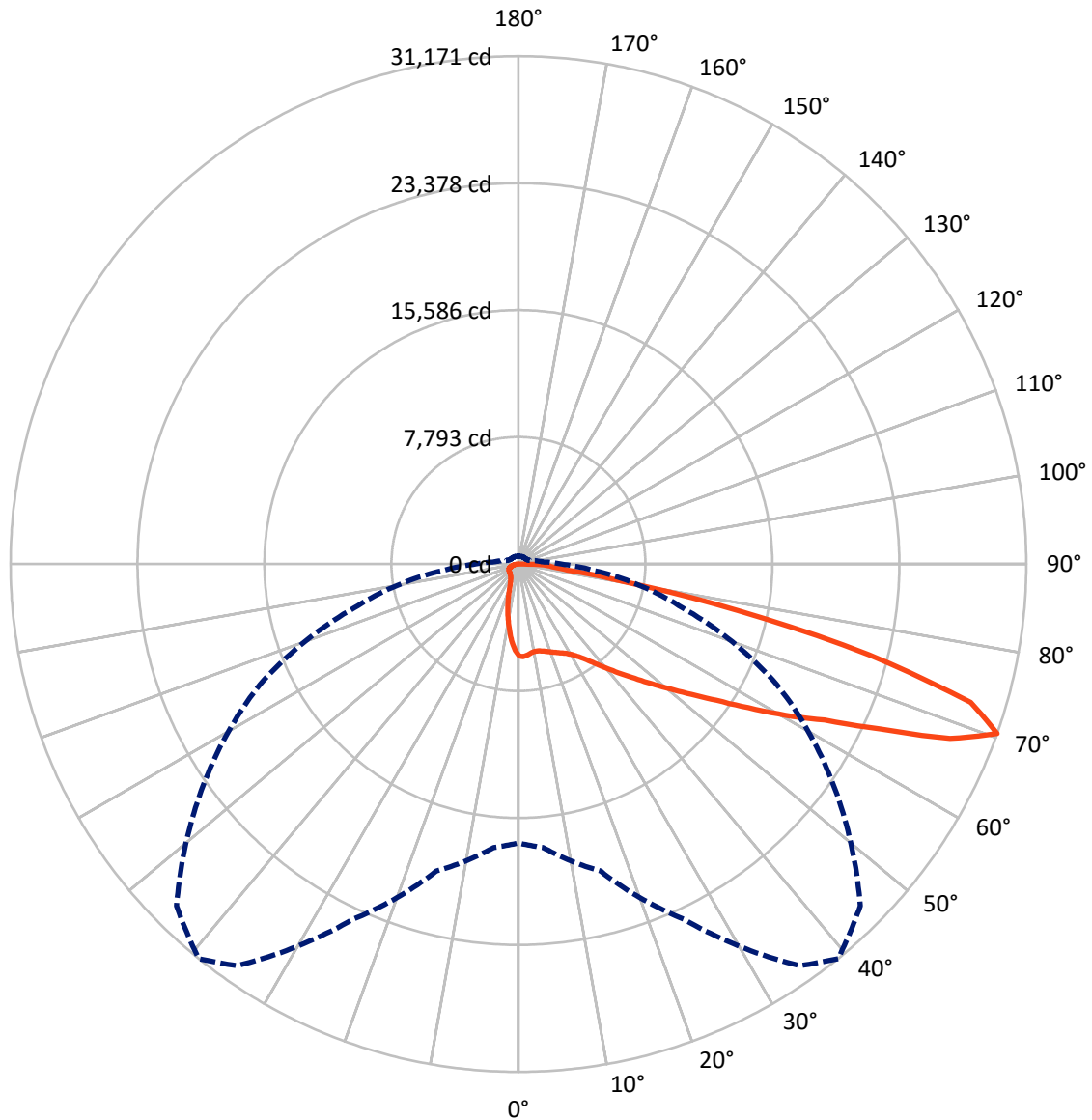


Based on 30 foot mounting height. Maximum calculated value = 6.3 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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

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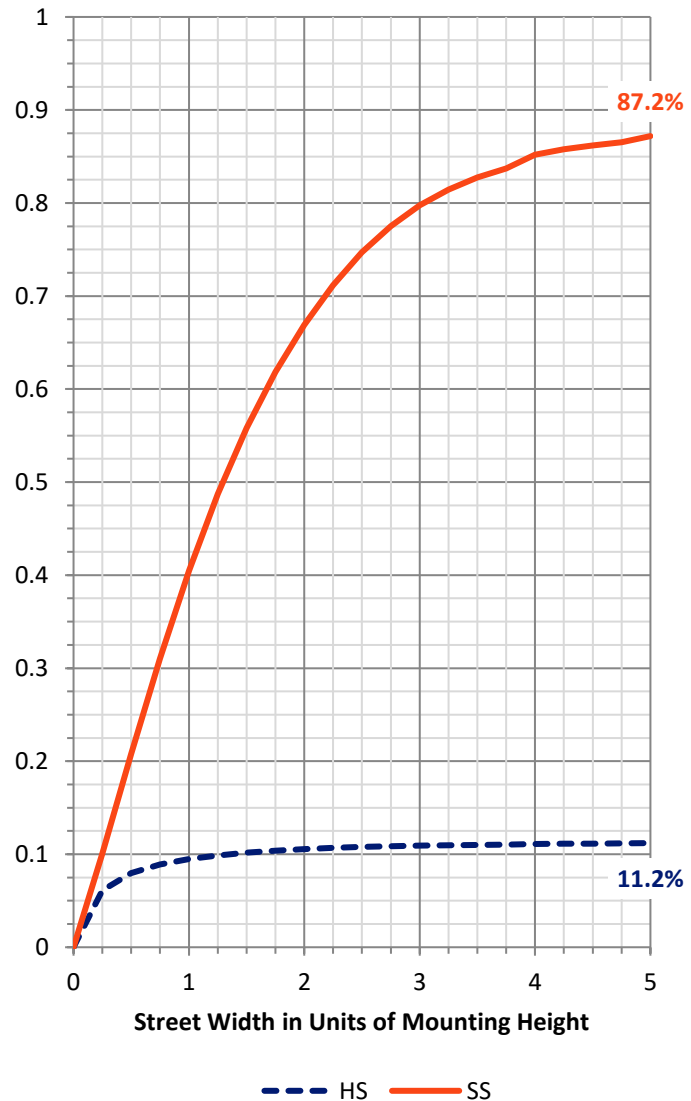
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4220.7	0.0	4220.7
	% Fixture	11.4	0.0	11.4
Street Side	Lumens	32889.3	0.0	32889.3
	% Fixture	88.6	0.0	88.6
Total	Lumens	37110.0	0.0	37110.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	483.5	1.3
10°-20°	1208.5	3.3
20°-30°	1881.8	5.1
30°-40°	2931.4	7.9
40°-50°	4921.3	13.3
50°-60°	7818.0	21.1
60°-70°	10428.3	28.1
70°-80°	6297.4	17.0
80°-90°	1139.7	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°	37110.0	100.0
0°-180°	37110.0	100.0

Coefficient of Utilization



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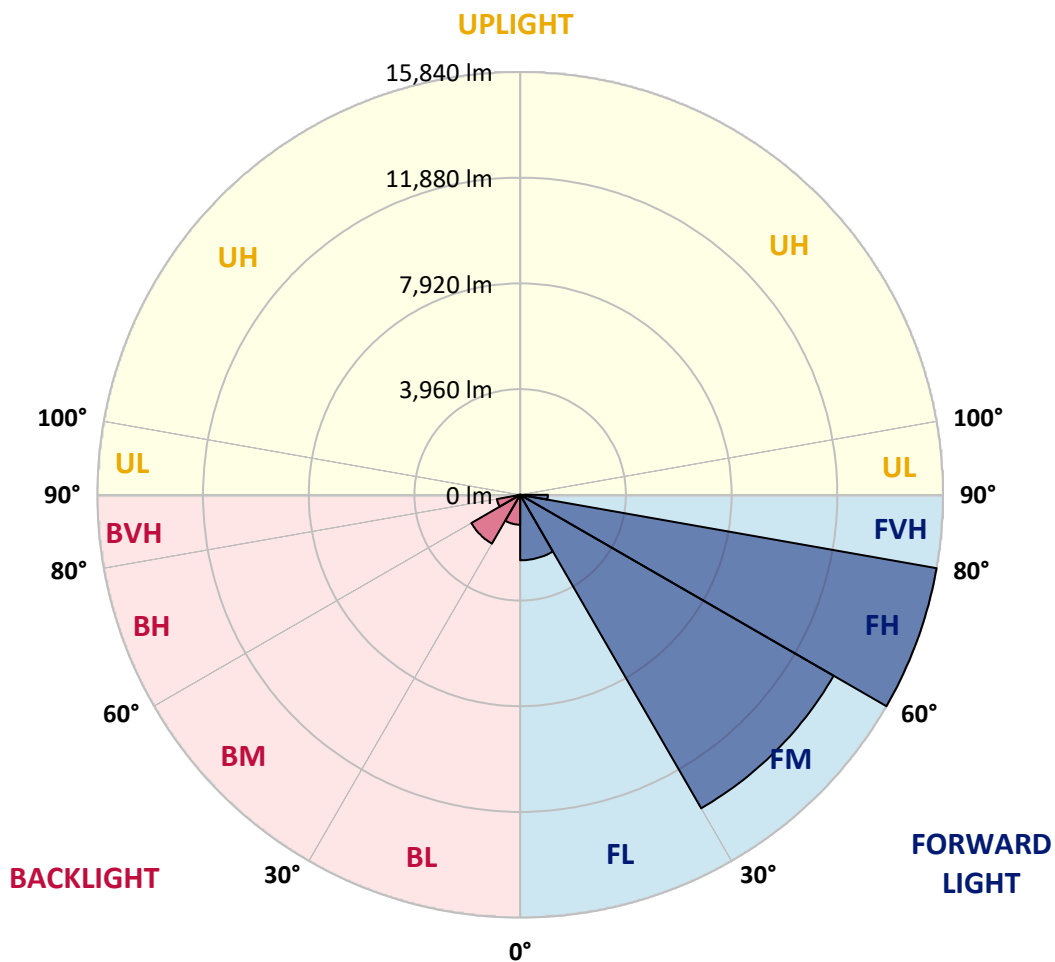
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2454.1	6.6			
FM	(30°-60°)	13558.6	36.5			
FH	(60°-80°)	15839.6	42.7			G5
FVH	(80°-90°)	1037.0	2.8			G5
BL	(0°-30°)	1119.7	3.0	B3/2500		
BM	(30°-60°)	2112.2	5.7	B2/2500		
BH	(60°-80°)	886.1	2.4	B2/1000		G2/1000
BVH	(80°-90°)	102.7	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°	5633.9	5633.9	5633.9	5633.9	5633.9	5633.9	5633.9	5633.9	5633.9	5633.9	5633.9
2.5°	5743.3	5741.4	5726.3	5715.0	5705.6	5701.8	5709.3	5681.0	5656.5	5626.3	5594.3
5°	5699.9	5698.0	5673.5	5650.9	5628.2	5620.7	5618.8	5567.8	5537.6	5492.4	5432.0
7.5°	5652.7	5643.3	5611.2	5573.5	5533.9	5515.0	5496.1	5430.1	5396.1	5350.9	5281.0
10°	5603.7	5592.4	5562.2	5524.4	5486.7	5458.4	5426.3	5362.2	5326.3	5292.4	5211.2
12.5°	5552.7	5543.3	5535.8	5518.8	5492.4	5467.8	5443.3	5388.6	5350.9	5311.2	5216.9
15°	5545.2	5541.4	5558.4	5569.7	5554.6	5539.5	5513.1	5466.0	5426.3	5386.7	5264.1
17.5°	5605.6	5603.7	5647.1	5677.3	5669.7	5643.3	5607.5	5554.6	5522.6	5488.6	5335.8
20°	5737.6	5747.1	5799.9	5839.5	5801.8	5764.1	5705.6	5632.0	5615.0	5599.9	5409.3
22.5°	5986.7	5996.1	6033.9	6049.0	5950.8	5896.1	5815.0	5720.7	5709.3	5720.7	5498.0
25°	6375.4	6365.9	6360.3	6303.7	6124.4	6039.5	5935.8	5837.6	5843.3	5894.2	5622.6
27.5°	6890.5	6839.5	6760.3	6590.5	6305.6	6211.2	6084.8	5994.2	6030.1	6128.2	5809.3
30°	7424.4	7367.8	7184.8	6907.4	6543.3	6439.5	6298.0	6196.1	6290.5	6445.2	6058.4
32.5°	7918.7	7911.2	7643.3	7286.7	6871.6	6781.0	6639.5	6524.4	6677.3	6913.1	6432.0
35°	8458.4	8475.3	8154.6	7726.3	7315.0	7220.6	7118.8	7032.0	7235.7	7560.3	6973.5
37.5°	9035.7	9069.7	8690.4	8207.4	7820.6	7781.0	7720.6	7682.9	7998.0	8447.0	7730.1
40°	9807.4	9773.4	9247.0	8750.8	8441.4	8439.5	8420.6	8465.9	8990.4	9605.5	8701.7
42.5°	10633.8	10533.8	9837.6	9333.8	9122.5	9186.6	9224.4	9409.3	10184.7	11013.0	9886.6
45°	11524.3	11299.8	10450.8	9950.8	9879.1	10014.9	10143.2	10545.1	11590.4	12614.9	11184.7
47.5°	12235.7	12018.7	11084.7	10597.9	10754.5	10960.2	11207.4	11843.2	13163.9	14269.6	12465.8
50°	12796.0	12654.5	11724.3	11352.7	11718.7	12035.7	12439.4	13313.0	14801.7	15880.9	13652.6
52.5°	13339.4	13233.8	12369.6	12126.2	12850.7	13288.5	13837.5	14890.3	16480.9	17465.8	14650.7
55°	13830.0	13754.5	13063.9	13090.4	14182.8	14752.6	15443.2	16686.5	18311.0	18878.9	15496.0
57.5°	14382.8	14286.6	13856.4	14299.8	15894.1	16633.7	17531.8	18705.4	20028.0	20135.5	16139.4
60°	14939.4	14856.4	14735.6	15696.0	18067.6	18845.0	19695.9	20661.9	21769.5	21111.0	16101.6
62.5°	15422.4	15431.8	15645.0	17162.0	20195.9	21095.9	22133.6	23088.3	23344.9	21280.8	14911.1
65°	16241.3	16390.3	17026.1	19237.4	23192.1	24395.8	25669.4	25516.6	23780.8	19694.0	12358.3
67.5°	17214.8	17477.1	18765.7	22003.4	26978.8	28576.9	29069.4	26065.6	22035.5	16009.2	8809.3
70°	17116.7	17477.1	19516.7	24065.7	30099.5	31171.2	29676.9	23590.2	17497.8	10458.3	4679.2
72.5°	15199.8	15714.8	17986.5	23120.4	29116.5	29022.2	25763.7	17586.5	10396.1	4199.9	1828.3
75°	11584.7	12105.5	14060.2	18265.7	23012.8	22220.4	18280.8	9714.9	3945.2	1667.9	1152.8
77.5°	6664.0	7067.8	8577.2	11201.7	14599.8	13786.6	10175.3	4320.7	1920.7	1162.2	900.0
80°	3720.7	3945.2	4862.2	5682.9	7154.6	6558.4	4552.8	2684.9	1433.9	843.4	694.3
82.5°	2941.5	3141.5	3932.0	3584.8	3267.9	3015.0	2615.1	2390.5	1145.3	532.1	415.1
85°	2569.8	2760.3	3328.2	2822.6	2232.0	2047.1	2124.5	2352.8	890.6	320.7	354.7
87.5°	2381.1	2635.8	2966.0	2175.4	1737.7	1539.6	1960.3	2579.2	286.8	200.0	143.4
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°	5633.9	5633.9	5633.9	5633.9	5633.9	5633.9	5633.9	5633.9	5633.9	5633.9	5633.9
2.5°	5565.9	5535.8	5486.7	5443.3	5375.4	5339.5	5299.9	5271.6	5249.0	5230.1	5260.3
5°	5394.3	5337.7	5233.9	5122.6	4990.5	4886.7	4799.9	4718.8	4662.2	4624.5	4650.9
7.5°	5232.0	5139.5	4977.3	4775.4	4549.0	4356.5	4198.0	4058.4	3962.2	3899.9	3924.5
10°	5139.5	5024.4	4773.5	4456.5	4122.6	3822.6	3573.5	3358.4	3209.4	3124.5	3137.7
12.5°	5116.9	4967.8	4620.7	4184.8	3728.2	3311.3	2960.3	2662.2	2452.8	2343.4	2347.1
15°	5133.9	4943.3	4477.3	3924.5	3347.1	2820.7	2383.0	2020.7	1777.3	1652.8	1650.9
17.5°	5162.2	4924.5	4326.3	3643.3	2960.3	2349.0	1860.3	1505.6	1290.5	1190.5	1183.0
20°	5192.4	4894.3	4156.5	3339.6	2558.5	1911.3	1456.6	1179.2	1043.4	988.7	984.9
22.5°	5235.8	4867.8	3981.1	3018.8	2164.1	1556.6	1198.1	1011.3	939.6	911.3	907.5
25°	5305.6	4854.6	3794.3	2684.9	1809.4	1301.9	1043.4	928.3	886.8	867.9	866.0
27.5°	5422.6	4873.5	3618.8	2360.3	1520.7	1130.2	956.6	886.8	856.6	839.6	837.7
30°	5573.5	4932.0	3433.9	2052.8	1296.2	1013.2	903.8	858.5	833.9	817.0	817.0
32.5°	5824.4	5030.1	3239.6	1786.8	1135.8	932.1	864.1	833.9	813.2	800.0	798.1
35°	6194.2	5215.0	3058.4	1566.0	1020.7	873.6	830.2	807.5	792.4	784.9	784.9
37.5°	6732.0	5507.5	2898.1	1407.5	950.9	833.9	798.1	781.1	771.7	771.7	771.7
40°	7454.6	5911.2	2767.9	1301.9	911.3	805.6	773.6	760.4	754.7	756.6	756.6
42.5°	8347.0	6435.7	2681.1	1228.3	892.4	788.7	756.6	745.3	739.6	737.7	739.6
45°	9364.0	7032.0	2671.7	1173.6	873.6	777.3	745.3	734.0	722.6	715.1	715.1
47.5°	10352.7	7637.6	2749.0	1154.7	852.8	764.1	735.8	724.5	707.5	690.6	690.6
50°	11226.2	8152.7	2852.8	1162.2	845.3	745.3	720.7	715.1	688.7	669.8	667.9
52.5°	11920.6	8548.9	2937.7	1184.9	852.8	732.1	701.9	703.8	675.5	654.7	652.8
55°	12477.2	8809.3	2915.0	1207.5	869.8	724.5	684.9	688.7	666.0	645.3	645.3
57.5°	12720.6	8713.1	2664.1	1188.7	883.0	726.4	671.7	686.8	667.9	649.0	649.0
60°	12197.9	7858.4	2194.3	1105.6	866.0	720.7	666.0	694.3	692.4	673.6	671.7
62.5°	10616.8	6328.2	1701.9	983.0	807.5	692.4	650.9	692.4	713.2	707.5	705.6
65°	8182.9	4507.5	1300.0	850.9	728.3	645.3	611.3	649.0	677.3	684.9	683.0
67.5°	5311.2	2762.2	1001.9	726.4	639.6	590.6	560.4	577.3	583.0	583.0	579.2
70°	2611.3	1486.8	798.1	611.3	549.0	532.1	515.1	505.7	496.2	488.7	488.7
72.5°	1288.7	971.7	656.6	517.0	473.6	466.0	462.3	450.9	443.4	434.0	430.2
75°	952.8	790.6	558.5	435.8	407.5	400.0	407.5	398.1	396.2	388.7	384.9
77.5°	783.0	673.6	481.1	373.6	349.1	335.8	347.2	349.1	350.9	339.6	335.8
80°	635.8	569.8	401.9	309.4	286.8	277.4	284.9	300.0	303.8	286.8	279.2
82.5°	458.5	466.0	324.5	241.5	222.6	215.1	230.2	249.1	252.8	228.3	222.6
85°	384.9	388.7	249.1	171.7	152.8	141.5	166.0	184.9	198.1	173.6	167.9
87.5°	160.4	228.3	143.4	96.2	84.9	73.6	88.7	98.1	118.9	109.4	107.5
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)