

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: P191254

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191254
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
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 4000K, 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: 34605.4 lumens
Efficiency: N/A
Efficacy: 103.9 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): 333
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

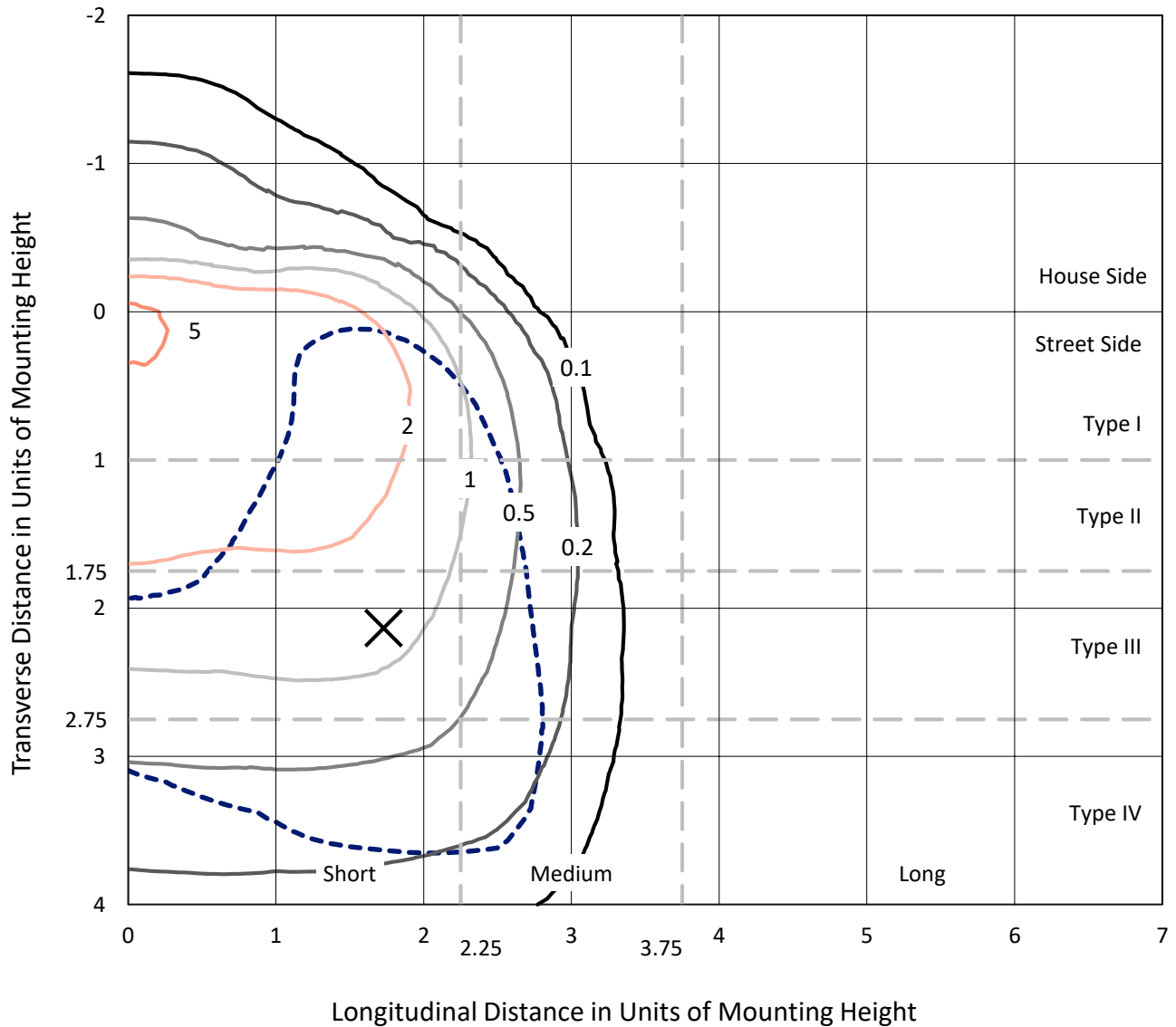


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

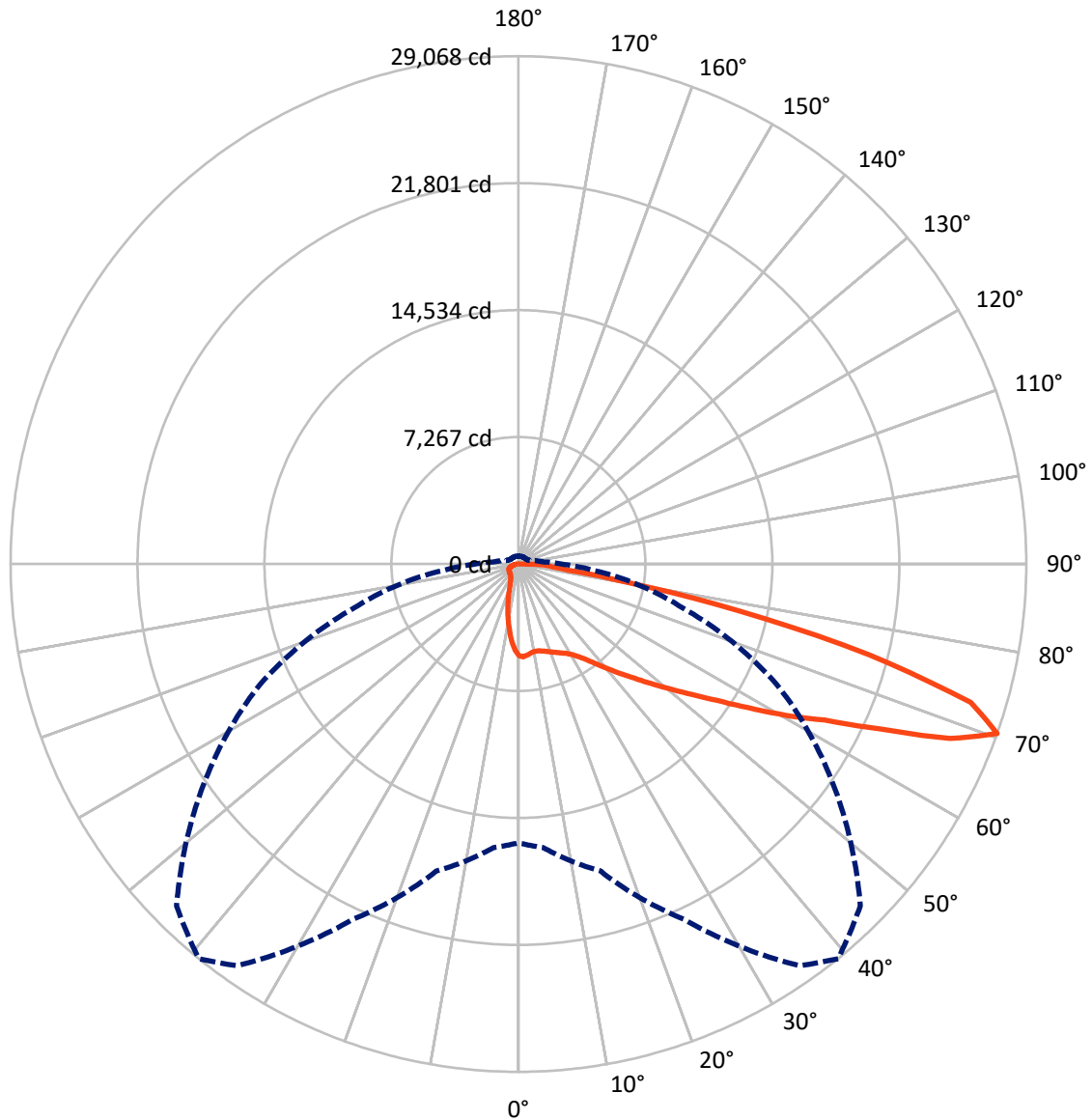


Based on 30 foot mounting height. Maximum calculated value = 5.8 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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

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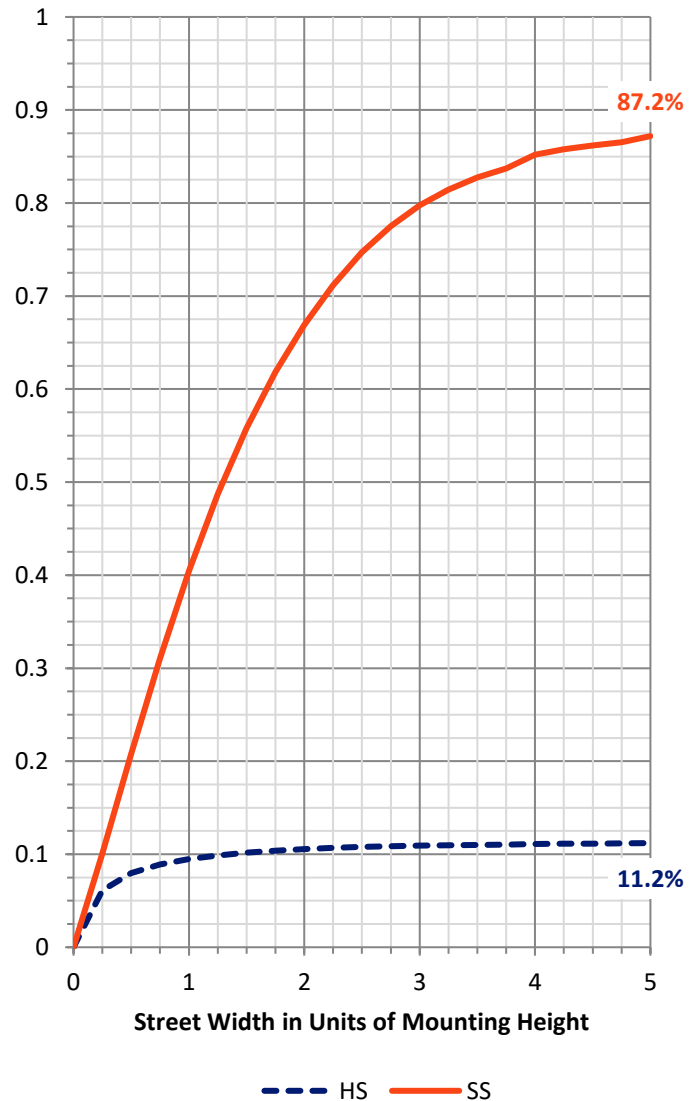
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3935.8	0.0	3935.8
	% Fixture	11.4	0.0	11.4
Street Side	Lumens	30669.6	0.0	30669.6
	% Fixture	88.6	0.0	88.6
Total	Lumens	34605.4	0.0	34605.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	450.9	1.3
10°-20°	1127.0	3.3
20°-30°	1754.8	5.1
30°-40°	2733.6	7.9
40°-50°	4589.2	13.3
50°-60°	7290.3	21.1
60°-70°	9724.5	28.1
70°-80°	5872.4	17.0
80°-90°	1062.8	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°	34605.4	100.0
0°-180°	34605.4	100.0



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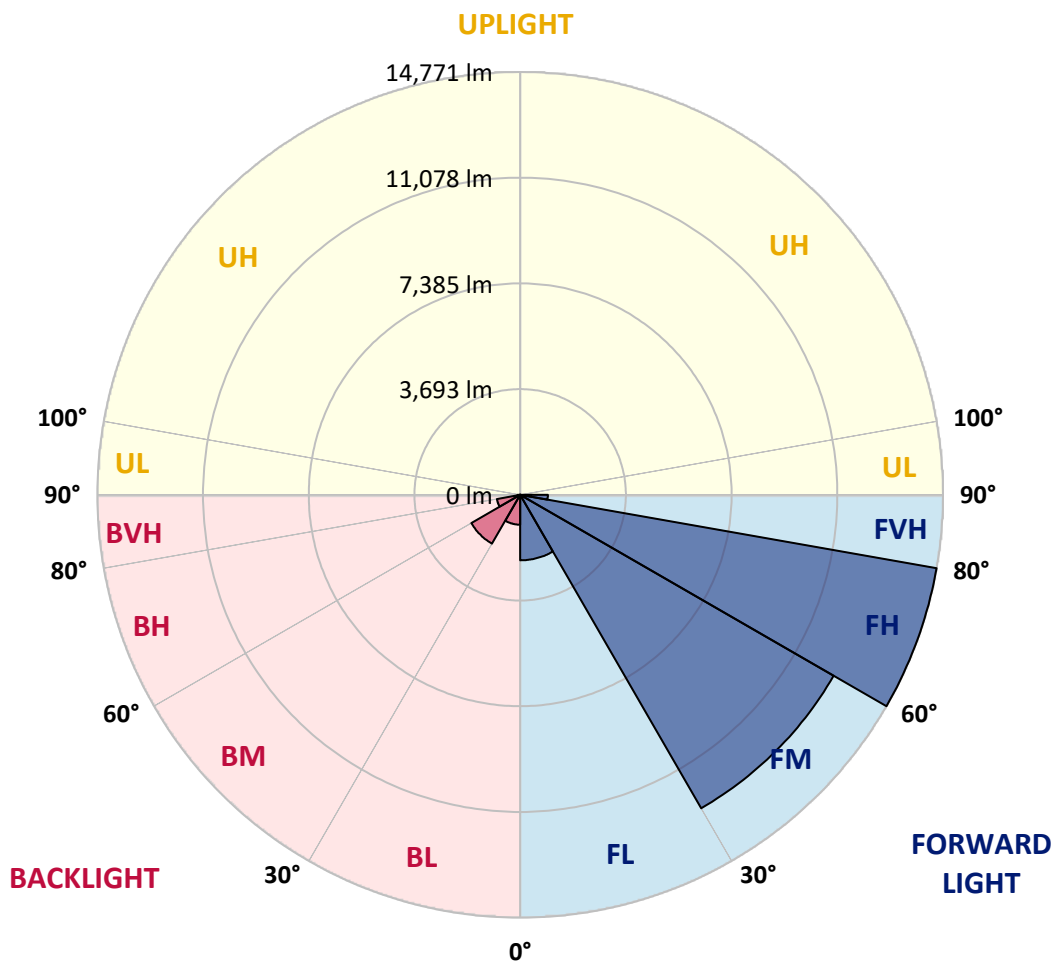
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2288.5	6.6			
FM	(30°-60°)	12643.5	36.5			
FH	(60°-80°)	14770.6	42.7			G5
FVH	(80°-90°)	967.0	2.8			G5
BL	(0°-30°)	1044.1	3.0	B3/2500		
BM	(30°-60°)	1969.6	5.7	B2/2500		
BH	(60°-80°)	826.3	2.4	B2/1000		G2/1000
BVH	(80°-90°)	95.8	0.3			G1/100
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°	5253.7	5253.7	5253.7	5253.7	5253.7	5253.7	5253.7	5253.7	5253.7	5253.7	5253.7
2.5°	5355.7	5353.9	5339.8	5329.3	5320.5	5317.0	5324.0	5297.7	5274.7	5246.6	5216.6
5°	5315.3	5313.4	5290.6	5269.4	5248.4	5241.3	5239.6	5192.1	5163.9	5121.7	5065.3
7.5°	5271.3	5262.5	5232.5	5197.3	5160.4	5142.8	5125.2	5063.6	5032.0	4989.7	4924.6
10°	5225.4	5214.9	5186.8	5151.6	5116.4	5090.0	5060.1	5000.3	4966.8	4935.2	4859.5
12.5°	5178.0	5169.2	5162.1	5146.3	5121.7	5098.8	5076.0	5024.9	4989.7	4952.8	4864.8
15°	5170.9	5167.4	5183.3	5193.8	5179.7	5165.7	5141.0	5097.1	5060.1	5023.2	4908.8
17.5°	5227.3	5225.4	5265.9	5294.1	5287.0	5262.5	5229.0	5179.7	5149.8	5118.1	4975.6
20°	5350.4	5359.2	5408.4	5445.4	5410.2	5375.0	5320.5	5251.8	5236.1	5222.0	5044.3
22.5°	5582.7	5591.4	5626.6	5640.8	5549.2	5498.2	5422.6	5334.6	5324.0	5334.6	5126.9
25°	5945.1	5936.3	5931.0	5878.2	5711.1	5632.0	5535.2	5443.6	5449.0	5496.4	5243.0
27.5°	6425.5	6377.9	6304.0	6145.7	5880.0	5792.0	5674.1	5589.7	5623.2	5714.6	5417.2
30°	6923.3	6870.5	6699.9	6441.2	6101.7	6004.9	5873.0	5777.9	5865.9	6010.1	5649.6
32.5°	7384.3	7377.2	7127.4	6794.8	6407.9	6323.4	6191.4	6084.1	6226.6	6446.5	5997.9
35°	7887.5	7903.3	7604.2	7204.8	6821.2	6733.3	6638.3	6557.3	6747.4	7050.0	6502.8
37.5°	8425.8	8457.6	8103.9	7653.5	7292.8	7255.9	7199.5	7164.3	7458.2	7876.9	7208.3
40°	9145.5	9113.8	8623.0	8160.2	7871.7	7869.9	7852.3	7894.5	8383.7	8957.3	8114.5
42.5°	9916.1	9822.9	9173.6	8703.9	8506.9	8566.6	8601.8	8774.3	9497.4	10269.7	9219.3
45°	10746.5	10537.2	9745.4	9279.2	9212.4	9339.0	9458.6	9833.4	10808.1	11763.5	10429.9
47.5°	11409.9	11207.6	10336.6	9882.7	10028.7	10220.5	10451.0	11043.9	12275.5	13306.5	11624.5
50°	11932.4	11800.5	10933.1	10586.4	10927.8	11223.4	11599.9	12414.5	13802.7	14809.1	12731.1
52.5°	12439.1	12340.6	11534.8	11307.8	11983.5	12391.6	12903.6	13885.3	15368.6	16287.0	13661.9
55°	12896.5	12826.2	12182.2	12206.9	13225.6	13756.9	14400.9	15560.3	17075.2	17604.8	14450.1
57.5°	13412.1	13322.4	12921.2	13334.7	14821.3	15511.1	16348.6	17442.9	18676.3	18776.6	15050.1
60°	13931.2	13853.7	13741.1	14636.7	16848.2	17573.1	18366.6	19267.5	20300.3	19686.2	15014.9
62.5°	14381.6	14390.4	14589.1	16003.8	18832.8	19672.1	20639.8	21530.0	21769.3	19844.5	13904.8
65°	15145.1	15284.1	15877.0	17939.1	21626.8	22749.3	23936.9	23794.4	22175.7	18364.8	11524.3
67.5°	16053.0	16297.6	17499.2	20518.3	25157.9	26648.2	27107.4	24306.4	20548.3	14928.7	8214.7
70°	15961.5	16297.6	18199.4	22441.4	28068.0	29067.5	27674.0	21998.0	16316.9	9752.5	4363.4
72.5°	14173.9	14654.3	16772.6	21560.0	27151.4	27063.4	24024.9	16399.5	9694.4	3916.5	1704.8
75°	10802.9	11288.5	13111.3	17032.9	21459.7	20720.7	17047.1	9059.3	3678.9	1555.3	1075.0
77.5°	6214.3	6590.8	7998.4	10445.7	13614.5	12856.1	9488.6	4029.1	1791.1	1083.8	839.2
80°	3469.5	3678.9	4534.0	5299.4	6671.7	6115.7	4245.5	2503.7	1337.2	786.4	647.4
82.5°	2742.9	2929.4	3666.7	3342.9	3047.4	2811.6	2438.5	2229.2	1068.0	496.1	387.1
85°	2396.4	2574.1	3103.6	2632.1	2081.4	1908.9	1981.1	2194.0	830.4	299.1	330.8
87.5°	2220.4	2457.9	2765.9	2028.6	1620.5	1435.7	1828.0	2405.2	267.4	186.5	133.7
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°	5253.7	5253.7	5253.7	5253.7	5253.7	5253.7	5253.7	5253.7	5253.7	5253.7	5253.7
2.5°	5190.2	5162.1	5116.4	5076.0	5012.6	4979.2	4942.2	4915.8	4894.7	4877.1	4905.3
5°	5030.2	4977.4	4880.6	4776.9	4653.7	4556.9	4475.9	4400.3	4347.5	4312.4	4337.0
7.5°	4878.9	4792.6	4641.3	4453.1	4242.0	4062.5	3914.7	3784.5	3694.8	3636.7	3659.6
10°	4792.6	4685.3	4451.4	4155.7	3844.4	3564.6	3332.4	3131.8	2992.7	2913.6	2925.9
12.5°	4771.6	4632.5	4308.9	3902.4	3476.6	3087.8	2760.5	2482.5	2287.2	2185.2	2188.7
15°	4787.4	4609.7	4175.1	3659.6	3121.2	2630.3	2222.2	1884.4	1657.4	1541.3	1539.5
17.5°	4813.8	4592.1	4034.3	3397.4	2760.5	2190.4	1734.8	1404.0	1203.4	1110.2	1103.2
20°	4841.9	4563.9	3876.0	3114.2	2385.8	1782.3	1358.3	1099.7	972.9	922.0	918.4
22.5°	4882.4	4539.3	3712.4	2815.1	2018.1	1451.6	1117.3	943.1	876.2	849.8	846.3
25°	4947.5	4527.0	3538.2	2503.7	1687.3	1214.0	972.9	865.6	827.0	809.4	807.6
27.5°	5056.5	4544.6	3374.6	2201.1	1418.1	1053.8	892.0	827.0	798.8	783.0	781.2
30°	5197.3	4599.1	3202.1	1914.2	1208.7	944.8	842.8	800.6	777.6	761.8	761.8
32.5°	5431.4	4690.6	3021.0	1666.2	1059.2	869.2	805.8	777.6	758.3	746.0	744.2
35°	5776.2	4863.0	2852.0	1460.4	951.9	814.6	774.2	753.0	739.0	731.9	731.9
37.5°	6277.6	5135.7	2702.4	1312.5	886.8	777.6	744.2	728.4	719.6	719.6	719.6
40°	6951.5	5512.3	2581.1	1214.0	849.8	751.3	721.4	709.0	703.8	705.5	705.5
42.5°	7783.7	6001.3	2500.1	1145.4	832.2	735.4	705.5	695.0	689.7	687.9	689.7
45°	8732.0	6557.3	2491.3	1094.4	814.6	724.9	695.0	684.5	673.8	666.9	666.9
47.5°	9654.0	7122.2	2563.5	1076.8	795.2	712.6	686.2	675.7	659.8	643.9	643.9
50°	10468.6	7602.5	2660.3	1083.8	788.2	695.0	672.1	666.9	642.2	624.6	622.9
52.5°	11116.0	7972.0	2739.5	1104.9	795.2	682.6	654.5	656.2	629.8	610.5	608.8
55°	11635.0	8214.7	2718.3	1126.1	811.1	675.7	638.6	642.2	621.0	601.7	601.7
57.5°	11862.0	8125.0	2484.3	1108.5	823.4	677.4	626.4	640.5	622.9	605.3	605.3
60°	11374.7	7328.0	2046.2	1031.0	807.6	672.1	621.0	647.4	645.7	628.1	626.4
62.5°	9900.3	5901.1	1587.0	916.7	753.0	645.7	607.0	645.7	665.0	659.8	658.1
65°	7630.6	4203.3	1212.2	793.5	679.1	601.7	570.1	605.3	631.7	638.6	636.9
67.5°	4952.8	2575.8	934.3	677.4	596.5	550.7	522.5	538.4	543.7	543.7	540.1
70°	2435.0	1386.4	744.2	570.1	512.0	496.1	480.3	471.5	462.7	455.7	455.7
72.5°	1201.7	906.1	612.2	482.1	441.6	434.5	431.1	420.5	413.5	404.7	401.1
75°	888.5	737.2	520.8	406.4	380.0	373.0	380.0	371.2	369.5	362.4	359.0
77.5°	730.2	628.1	448.7	348.3	325.5	313.2	323.8	325.5	327.2	316.7	313.2
80°	592.9	531.3	374.7	288.6	267.4	258.6	265.7	279.8	283.3	267.4	260.4
82.5°	427.5	434.5	302.6	225.3	207.7	200.6	214.6	232.2	235.8	212.9	207.7
85°	359.0	362.4	232.2	160.1	142.5	132.0	154.9	172.5	184.7	161.8	156.6
87.5°	149.6	212.9	133.7	89.7	79.2	68.6	82.7	91.5	110.9	102.1	100.2
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)