

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: P191236

Luminaire Tested: **GLEON-AF-08-LED-E1-SL4-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191236
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-SL4-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 4000K, 615mA 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: 30552.5 lumens
Efficiency: N/A
Efficacy: 118.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G5

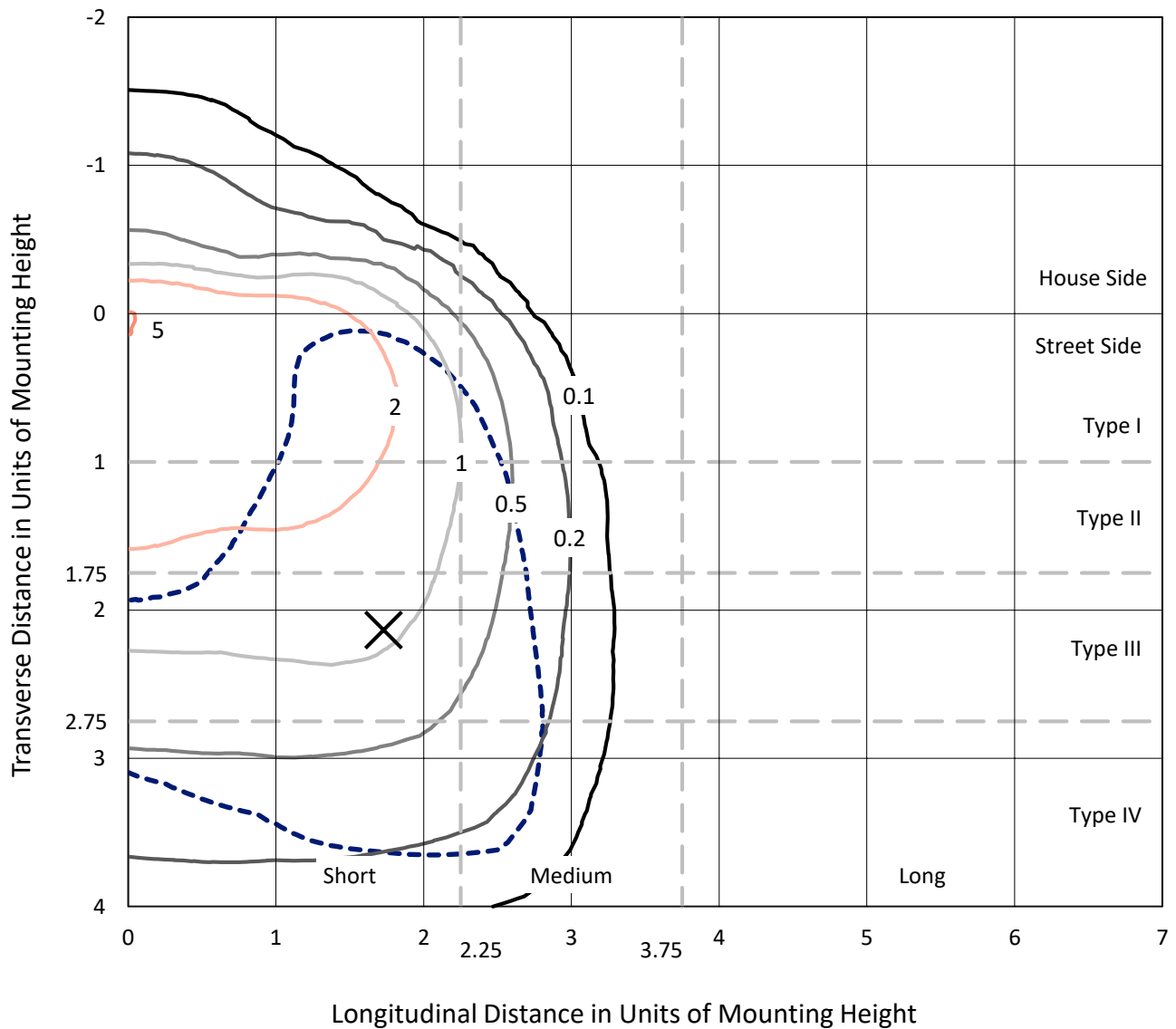
Input Watts (W): 257
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

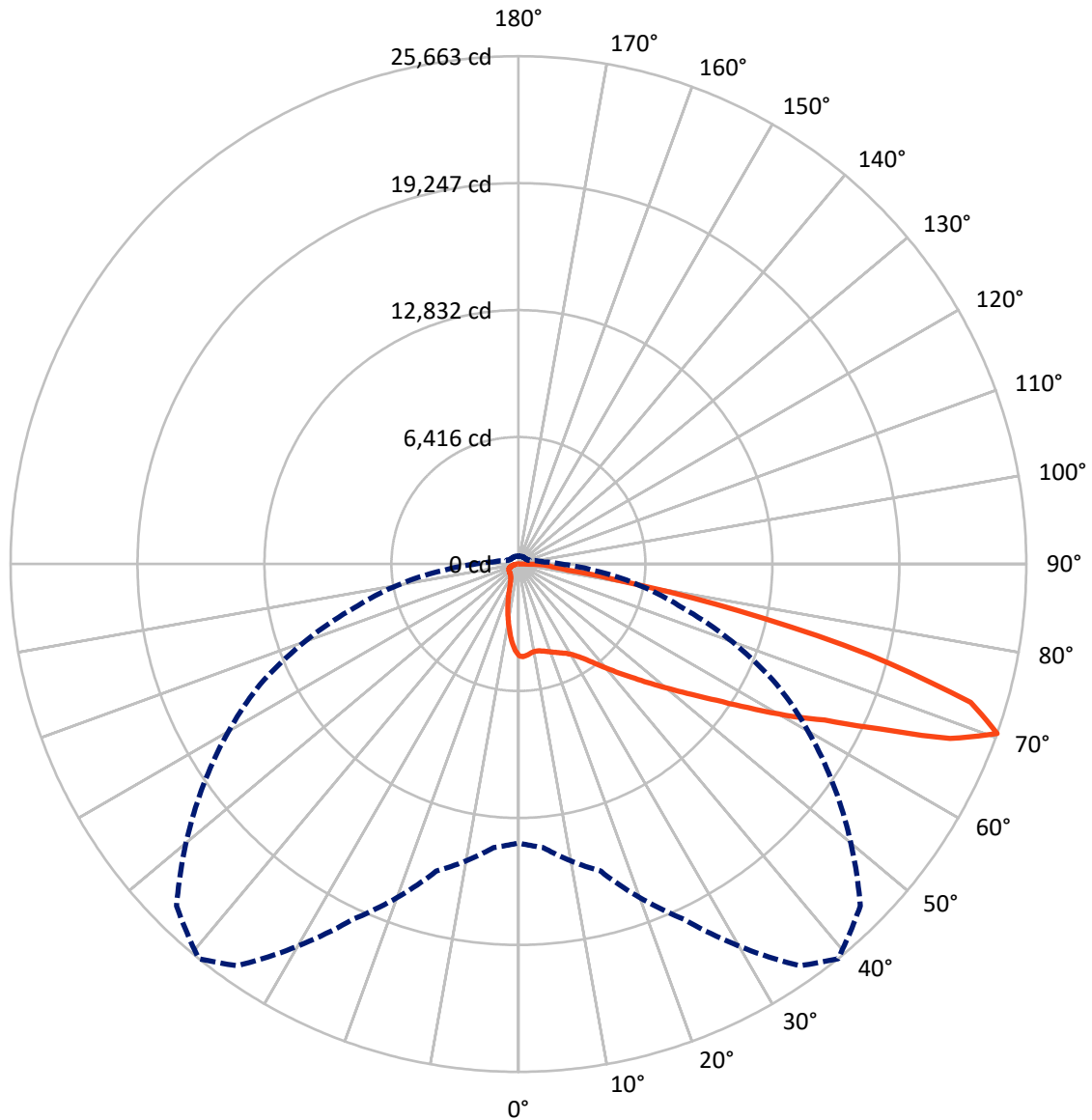
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.2 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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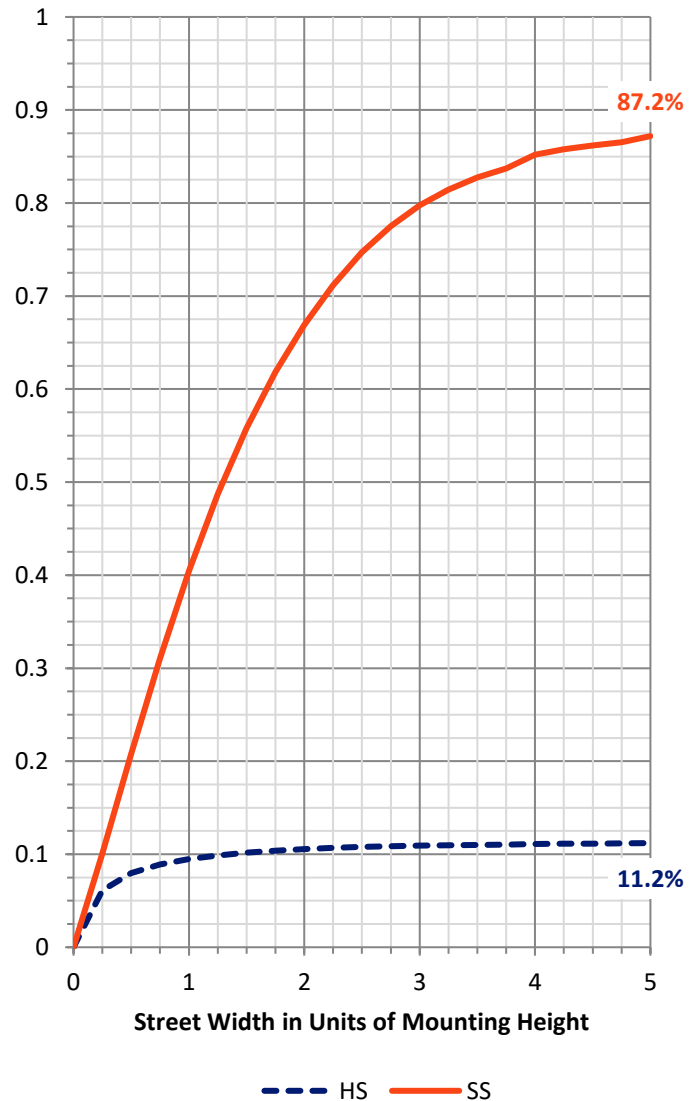
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3474.8	0.0	3474.8
	% Fixture	11.4	0.0	11.4
Street Side	Lumens	27077.6	0.0	27077.6
	% Fixture	88.6	0.0	88.6
Total	Lumens	30552.5	0.0	30552.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	398.1	1.3
10°-20°	995.0	3.3
20°-30°	1549.2	5.1
30°-40°	2413.4	7.9
40°-50°	4051.7	13.3
50°-60°	6436.5	21.1
60°-70°	8585.6	28.1
70°-80°	5184.6	17.0
80°-90°	938.3	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°	30552.5	100.0
0°-180°	30552.5	100.0



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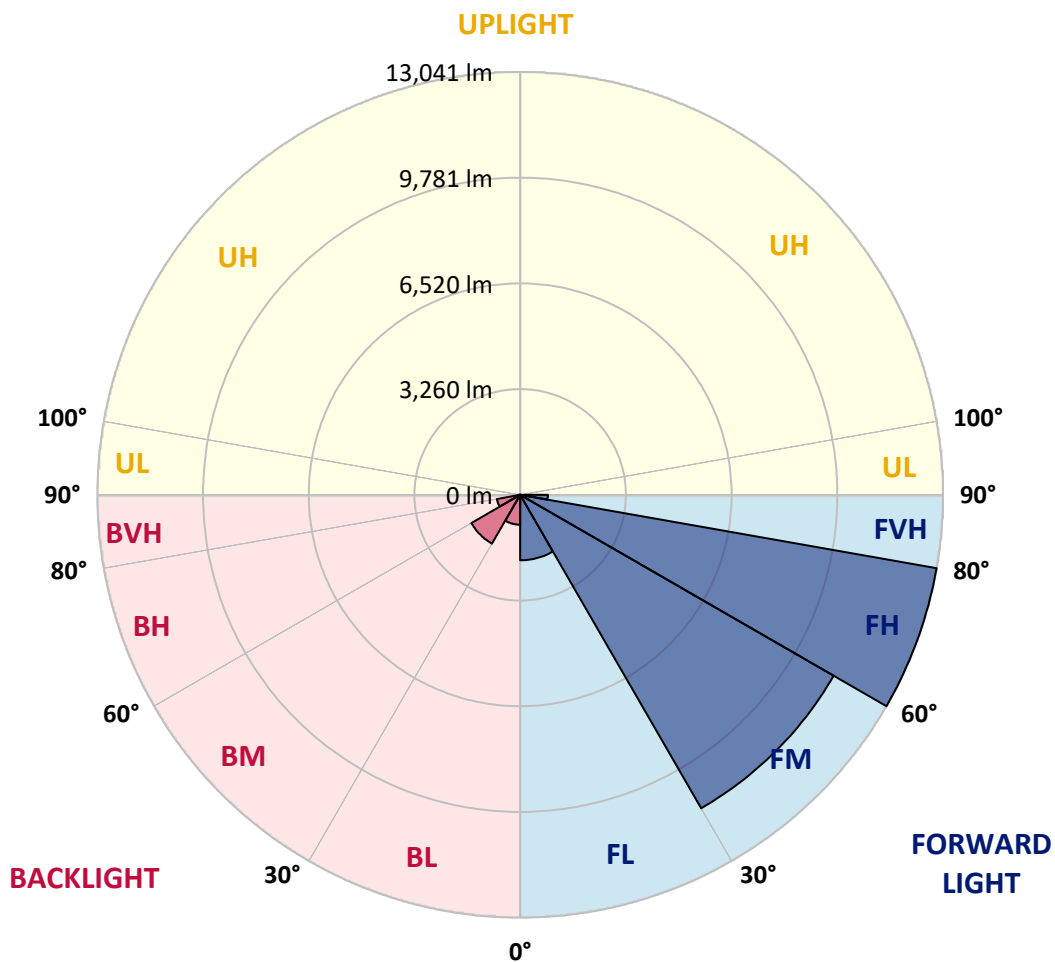
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2020.5	6.6			
FM	(30°-60°)	11162.7	36.5			
FH	(60°-80°)	13040.7	42.7			G5
FVH	(80°-90°)	853.8	2.8			G5
BL	(0°-30°)	921.8	3.0	B2/1000		
BM	(30°-60°)	1739.0	5.7	B2/2500		
BH	(60°-80°)	729.5	2.4	B2/1000		G2/1000
BVH	(80°-90°)	84.6	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	4638.4	4638.4	4638.4	4638.4	4638.4	4638.4	4638.4	4638.4	4638.4	4638.4	4638.4
2.5°	4728.4	4726.9	4714.5	4705.2	4697.4	4694.2	4700.5	4677.1	4657.0	4632.1	4605.7
5°	4692.7	4691.2	4671.0	4652.3	4633.7	4627.4	4625.9	4583.9	4559.1	4521.9	4472.1
7.5°	4653.9	4646.1	4619.7	4588.7	4556.0	4540.5	4524.9	4470.6	4442.6	4405.3	4347.8
10°	4613.5	4604.2	4579.3	4548.2	4517.1	4493.9	4467.4	4414.6	4385.2	4357.2	4290.4
12.5°	4571.6	4563.8	4557.6	4543.5	4521.9	4501.6	4481.4	4436.4	4405.3	4372.7	4295.1
15°	4565.3	4562.3	4576.2	4585.5	4573.1	4560.6	4538.9	4500.1	4467.4	4434.8	4333.8
17.5°	4615.0	4613.5	4649.2	4674.1	4667.8	4646.1	4616.6	4573.1	4546.7	4518.7	4392.9
20°	4723.8	4731.6	4775.0	4807.7	4776.6	4745.6	4697.4	4636.8	4622.8	4610.3	4453.5
22.5°	4928.8	4936.6	4967.7	4980.0	4899.3	4854.2	4787.5	4709.8	4700.5	4709.8	4526.5
25°	5248.8	5241.1	5236.4	5189.7	5042.2	4972.4	4886.8	4806.1	4810.7	4852.7	4629.1
27.5°	5672.9	5630.9	5565.7	5425.9	5191.4	5113.6	5009.6	4935.0	4964.6	5045.3	4782.8
30°	6112.4	6065.9	5915.2	5686.9	5387.1	5301.6	5185.1	5101.3	5178.9	5306.3	4987.8
32.5°	6519.5	6513.2	6292.7	5999.1	5657.3	5582.8	5466.2	5371.5	5497.3	5691.5	5295.4
35°	6963.7	6977.8	6713.6	6361.0	6022.4	5944.7	5860.8	5789.4	5957.2	6224.3	5741.2
37.5°	7439.0	7467.0	7154.8	6757.1	6438.7	6406.0	6356.3	6325.3	6584.7	6954.4	6364.1
40°	8074.4	8046.4	7613.0	7204.5	6949.7	6948.2	6932.6	6970.0	7401.8	7908.1	7164.1
42.5°	8754.7	8672.4	8099.2	7684.5	7510.5	7563.3	7594.4	7746.6	8385.0	9066.9	8139.6
45°	9488.0	9303.1	8604.0	8192.4	8133.4	8245.3	8350.9	8681.8	9542.3	10385.8	9208.3
47.5°	10073.5	9894.9	9126.1	8725.3	8854.2	9023.4	9227.0	9750.5	10837.9	11748.1	10263.1
50°	10534.9	10418.4	9652.6	9346.6	9648.0	9908.9	10241.3	10960.5	12186.1	13074.6	11240.1
52.5°	10982.3	10895.2	10183.9	9983.5	10580.0	10940.4	11392.4	12259.1	13568.6	14379.5	12061.8
55°	11386.2	11324.0	10755.5	10777.2	11676.6	12145.7	12714.3	13737.9	15075.3	15542.9	12757.7
57.5°	11841.3	11762.1	11407.8	11772.9	13085.5	13694.4	14433.8	15400.0	16488.9	16577.4	13287.4
60°	12299.6	12231.2	12131.8	12922.4	14875.0	15515.0	16215.5	17010.9	17922.7	17380.5	13256.4
62.5°	12697.2	12704.9	12880.5	14129.4	16627.1	17368.2	18222.5	19008.5	19219.7	17520.4	12276.2
65°	13371.3	13494.1	14017.5	15838.0	19093.9	20084.9	21133.4	21007.6	19578.6	16214.0	10174.5
67.5°	14172.9	14388.8	15449.7	18115.3	22211.5	23527.3	23932.7	21459.7	18141.7	13180.3	7252.6
70°	14092.1	14388.8	16068.0	19813.1	24780.8	25663.1	24432.9	19421.6	14405.9	8610.3	3852.3
72.5°	12513.9	12938.0	14808.2	19034.9	23971.5	23893.8	21211.2	14478.8	8559.0	3457.8	1505.2
75°	9537.7	9966.4	11575.6	15038.1	18946.4	18293.9	15050.6	7998.2	3248.1	1373.2	949.1
77.5°	5486.5	5818.9	7061.6	9222.3	12019.9	11350.5	8377.3	3557.2	1581.3	956.9	740.9
80°	3063.2	3248.1	4003.0	4678.8	5890.4	5399.4	3748.3	2210.4	1180.6	694.4	571.6
82.5°	2421.7	2586.3	3237.2	2951.4	2690.5	2482.3	2153.0	1968.2	942.9	438.0	341.8
85°	2115.7	2272.6	2740.2	2323.8	1837.6	1685.4	1749.0	1937.1	733.1	264.0	292.1
87.5°	1960.4	2170.1	2441.9	1791.0	1430.6	1267.5	1613.9	2123.4	236.1	164.7	118.0
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°	4638.4	4638.4	4638.4	4638.4	4638.4	4638.4	4638.4	4638.4	4638.4	4638.4	4638.4
2.5°	4582.4	4557.6	4517.1	4481.4	4425.5	4396.0	4363.4	4340.1	4321.5	4305.9	4330.8
5°	4441.0	4394.5	4309.0	4217.4	4108.7	4023.2	3951.8	3885.0	3838.3	3807.3	3829.0
7.5°	4307.4	4231.3	4097.7	3931.6	3745.1	3586.7	3456.2	3341.3	3262.1	3210.8	3231.0
10°	4231.3	4136.6	3930.0	3669.0	3394.0	3147.1	2942.1	2764.9	2642.3	2572.4	2583.3
12.5°	4212.7	4090.0	3804.1	3445.4	3069.5	2726.2	2437.2	2191.8	2019.4	1929.3	1932.4
15°	4226.7	4069.8	3686.1	3231.0	2755.6	2322.3	1961.9	1663.6	1463.2	1360.7	1359.2
17.5°	4250.0	4054.3	3561.8	2999.5	2437.2	1933.9	1531.7	1239.6	1062.5	980.2	974.0
20°	4274.8	4029.4	3422.1	2749.5	2106.4	1573.6	1199.2	970.9	859.0	814.0	810.9
22.5°	4310.6	4007.7	3277.6	2485.4	1781.7	1281.6	986.4	832.6	773.6	750.2	747.2
25°	4368.1	3996.8	3123.8	2210.4	1489.7	1071.8	859.0	764.2	730.1	714.5	713.0
27.5°	4464.4	4012.3	2979.3	1943.3	1252.0	930.5	787.6	730.1	705.2	691.2	689.7
30°	4588.7	4060.5	2827.1	1690.0	1067.1	834.1	744.1	706.8	686.6	672.6	672.6
32.5°	4795.2	4141.3	2667.1	1471.0	935.1	767.3	711.5	686.6	669.5	658.6	657.0
35°	5099.7	4293.5	2518.0	1289.3	840.4	719.2	683.4	664.8	652.4	646.2	646.2
37.5°	5542.3	4534.2	2385.9	1158.8	782.9	686.6	657.0	643.1	635.4	635.4	635.4
40°	6137.3	4866.7	2278.8	1071.8	750.2	663.3	636.9	626.0	621.3	622.9	622.9
42.5°	6872.1	5298.5	2207.3	1011.3	734.8	649.3	622.9	613.6	609.0	607.3	609.0
45°	7709.4	5789.4	2199.5	966.2	719.2	640.0	613.6	604.3	594.9	588.7	588.7
47.5°	8523.3	6288.0	2263.3	950.6	702.2	629.1	605.8	596.5	582.5	568.6	568.6
50°	9242.5	6712.1	2348.7	956.9	695.9	613.6	593.4	588.7	567.0	551.5	549.9
52.5°	9814.2	7038.3	2418.6	975.5	702.2	602.7	577.9	579.4	556.1	539.0	537.5
55°	10272.4	7252.6	2399.9	994.1	716.1	596.5	563.9	567.0	548.3	531.2	531.2
57.5°	10472.8	7173.4	2193.3	978.7	727.0	598.0	553.0	565.4	549.9	534.4	534.4
60°	10042.5	6469.8	1806.5	910.2	713.0	593.4	548.3	571.6	570.1	554.5	553.0
62.5°	8740.8	5210.0	1401.1	809.3	664.8	570.1	535.9	570.1	587.2	582.5	580.9
65°	6736.9	3711.0	1070.3	700.5	599.6	531.2	503.3	534.4	557.6	563.9	562.3
67.5°	4372.7	2274.1	824.8	598.0	526.6	486.2	461.4	475.4	480.0	480.0	476.9
70°	2149.8	1224.1	657.0	503.3	452.0	438.0	424.1	416.3	408.6	402.3	402.3
72.5°	1060.9	799.9	540.5	425.6	389.8	383.7	380.5	371.2	365.1	357.3	354.1
75°	784.4	650.9	459.8	358.9	335.5	329.3	335.5	327.8	326.2	320.0	316.9
77.5°	644.7	554.5	396.1	307.6	287.3	276.5	285.8	287.3	288.9	279.6	276.5
80°	523.4	469.1	330.8	254.7	236.1	228.3	234.6	246.9	250.1	236.1	229.9
82.5°	377.5	383.7	267.2	198.9	183.3	177.1	189.6	205.0	208.2	187.9	183.3
85°	316.9	320.0	205.0	141.4	125.8	116.5	136.7	152.2	163.1	142.9	138.2
87.5°	132.1	187.9	118.0	79.2	69.9	60.6	73.0	80.8	97.9	90.1	88.6
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)