

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: P192036

Luminaire Tested: **GLEON-AF-08-LED-E1-SL4-7050-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192036
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-SL4-7050-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 5000K, 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: 29867 lumens
Efficiency: N/A
Efficacy: 116.2 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

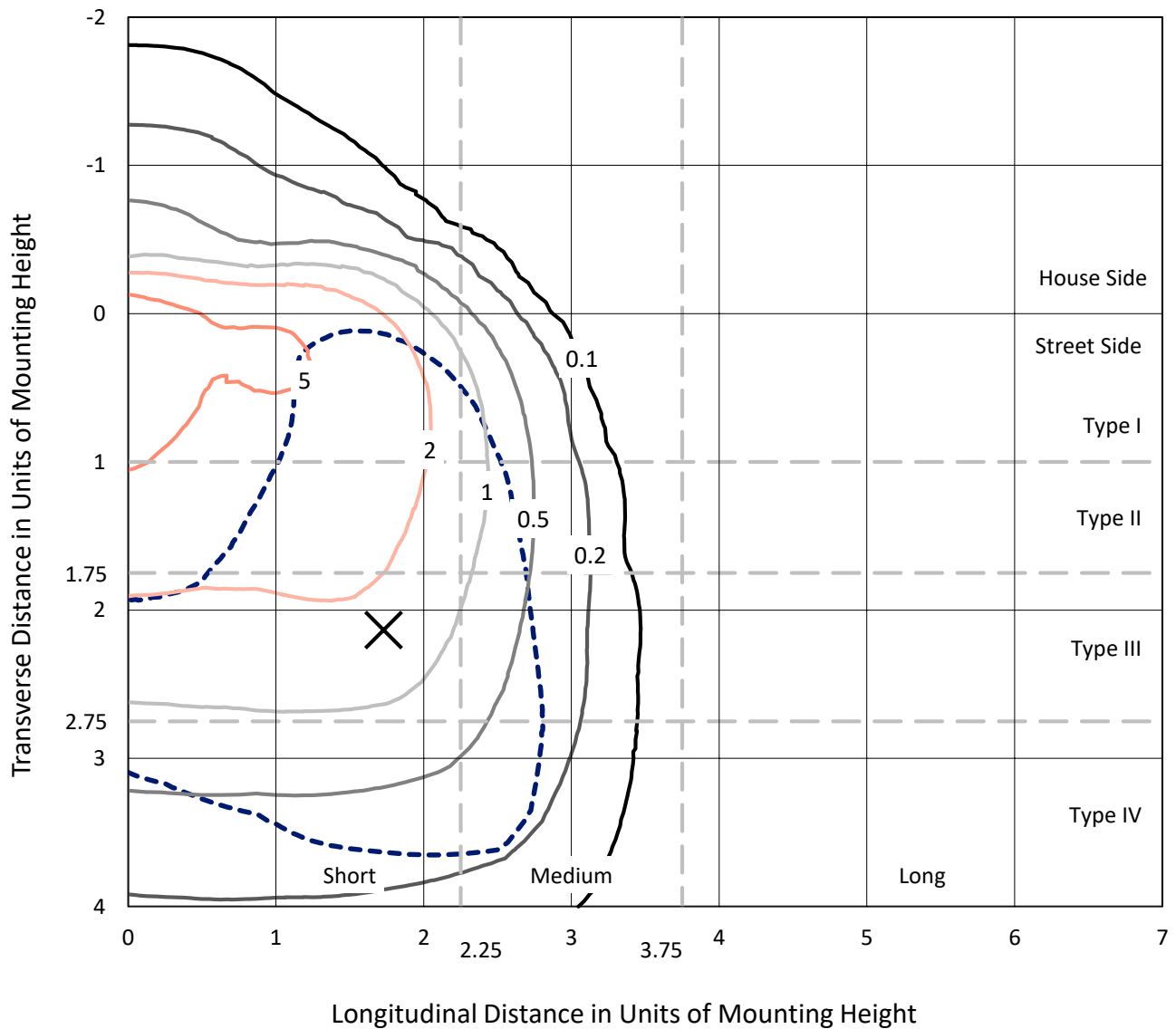


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Iso-Footcandle Lines of Horizontal Illumination

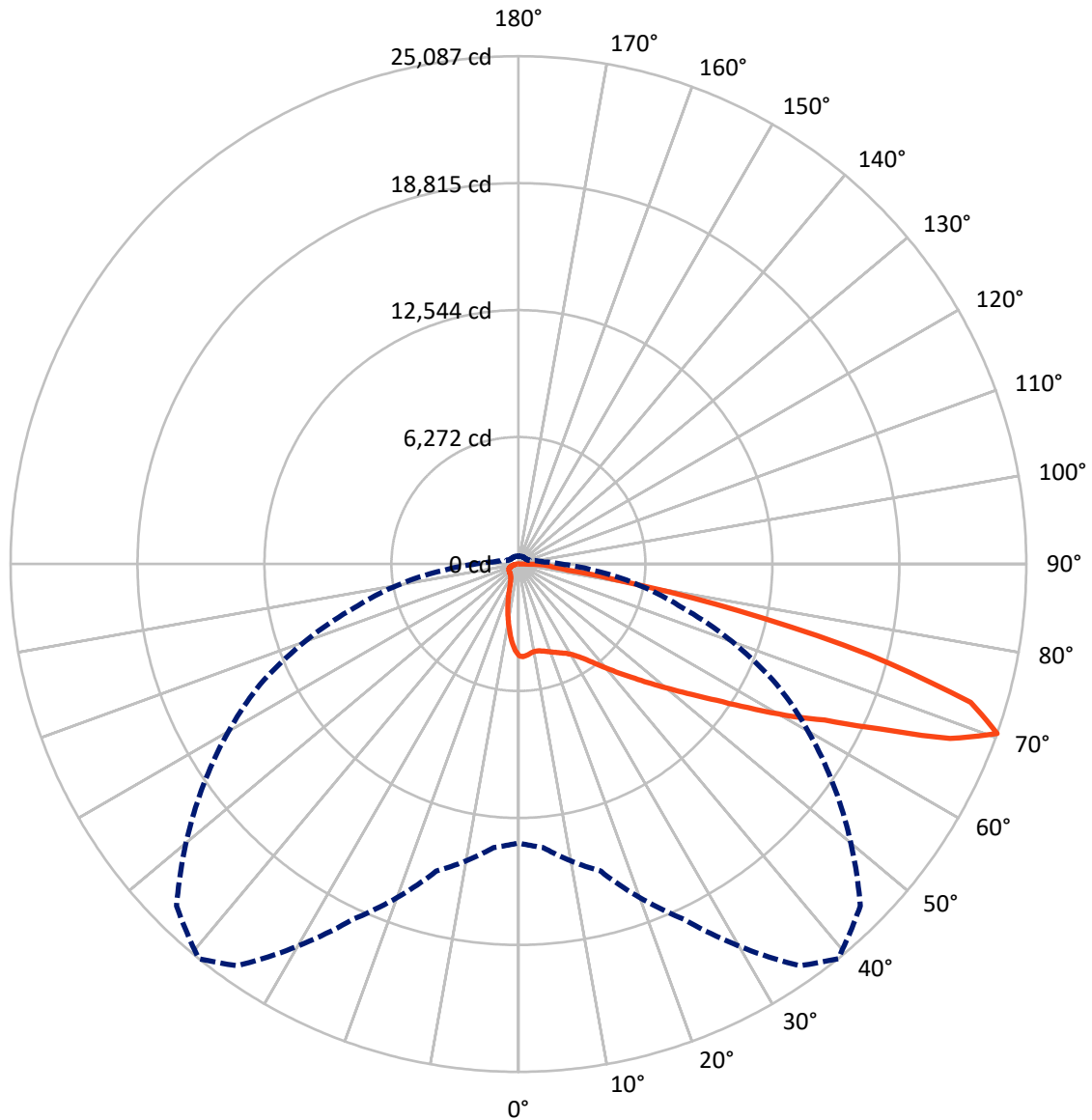
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 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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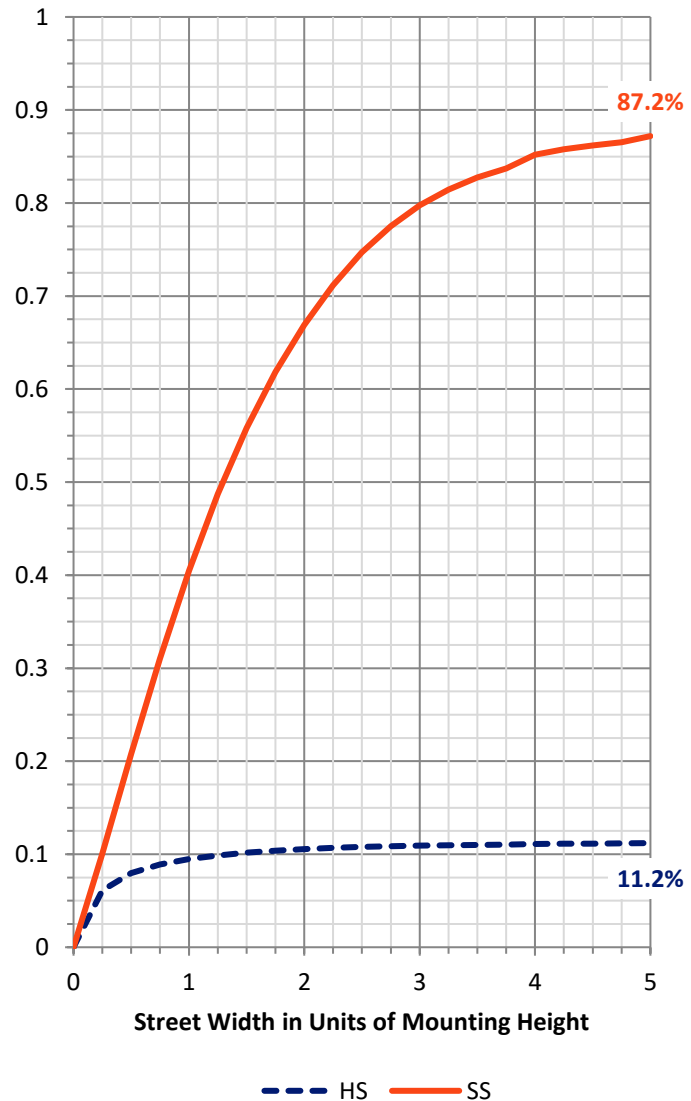
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3396.9	0.0	3396.9
	% Fixture	11.4	0.0	11.4
Street Side	Lumens	26470.1	0.0	26470.1
	% Fixture	88.6	0.0	88.6
Total	Lumens	29867.0	0.0	29867.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	389.1	1.3
10°-20°	972.7	3.3
20°-30°	1514.5	5.1
30°-40°	2359.3	7.9
40°-50°	3960.8	13.3
50°-60°	6292.1	21.1
60°-70°	8392.9	28.1
70°-80°	5068.3	17.0
80°-90°	917.3	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°	29867.0	100.0
0°-180°	29867.0	100.0



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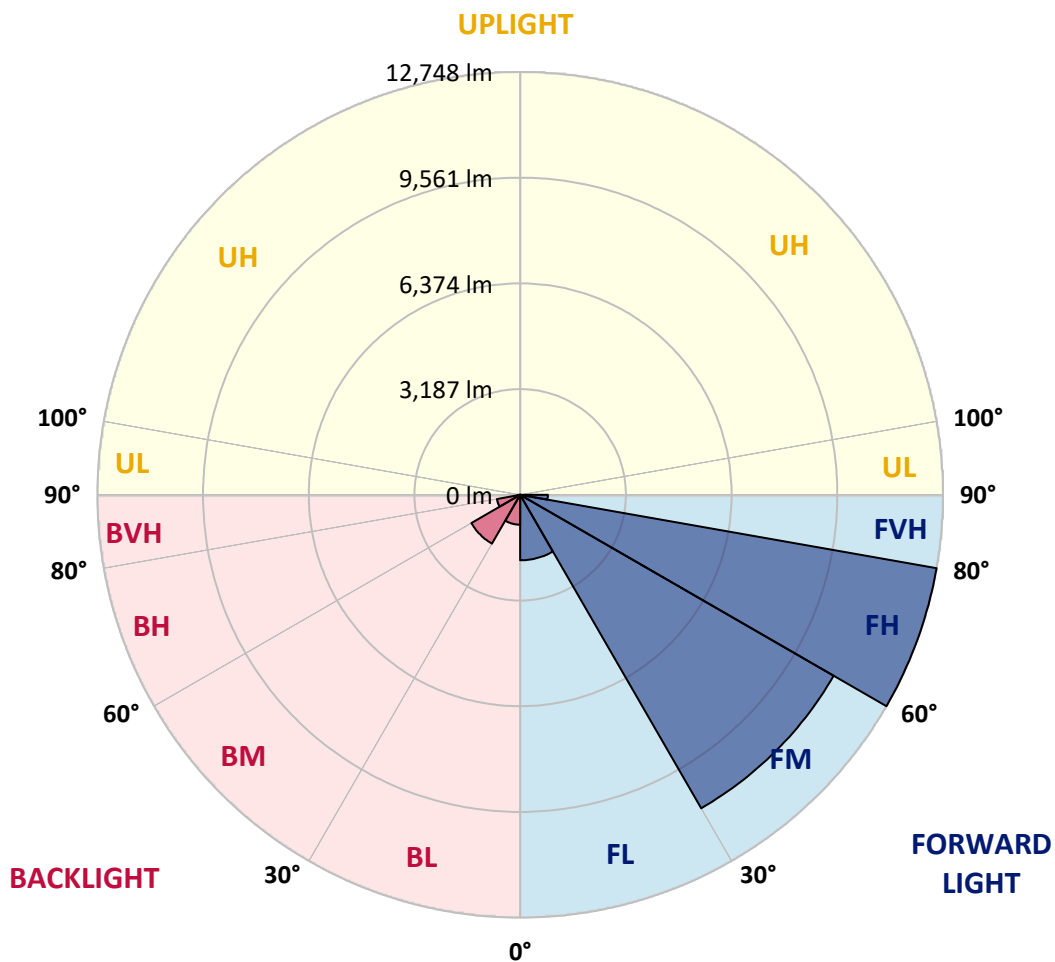
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1975.1	6.6			
FM (30°-60°)	10912.2	36.5			
FH (60°-80°)	12748.1	42.7			G5
FVH (80°-90°)	834.6	2.8			G5
BL (0°-30°)	901.1	3.0	B2/1000		
BM (30°-60°)	1699.9	5.7	B2/2500		
BH (60°-80°)	713.1	2.4	B2/1000		G2/1000
BVH (80°-90°)	82.7	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°	4534.3	4534.3	4534.3	4534.3	4534.3	4534.3	4534.3	4534.3	4534.3	4534.3	4534.3
2.5°	4622.3	4620.8	4608.7	4599.6	4592.0	4588.9	4595.0	4572.2	4552.5	4528.2	4502.4
5°	4587.4	4585.9	4566.2	4547.9	4529.7	4523.6	4522.1	4481.1	4456.8	4420.4	4371.8
7.5°	4549.5	4541.9	4516.1	4485.7	4453.8	4438.6	4423.4	4370.3	4342.9	4306.5	4250.3
10°	4510.0	4500.9	4476.6	4446.2	4415.8	4393.1	4367.2	4315.6	4286.8	4259.4	4194.1
12.5°	4469.0	4461.4	4455.3	4441.6	4420.4	4400.6	4380.9	4336.9	4306.5	4274.6	4198.7
15°	4462.9	4459.9	4473.5	4482.6	4470.5	4458.3	4437.1	4399.1	4367.2	4335.3	4236.6
17.5°	4511.5	4510.0	4544.9	4569.2	4563.1	4541.9	4513.0	4470.5	4444.7	4417.3	4294.3
20°	4617.8	4625.4	4667.9	4699.8	4669.4	4639.1	4592.0	4532.8	4519.1	4506.9	4353.6
22.5°	4818.2	4825.8	4856.2	4868.3	4789.4	4745.3	4680.1	4604.1	4595.0	4604.1	4424.9
25°	5131.0	5123.5	5118.9	5073.3	4929.1	4860.8	4777.2	4698.3	4702.8	4743.8	4525.2
27.5°	5545.6	5504.6	5440.8	5304.2	5074.9	4998.9	4897.2	4824.3	4853.2	4932.1	4675.5
30°	5975.3	5929.8	5782.5	5559.3	5266.2	5182.7	5068.8	4986.8	5062.7	5187.2	4875.9
32.5°	6373.2	6367.1	6151.5	5864.5	5530.4	5457.5	5343.6	5251.0	5374.0	5563.8	5176.6
35°	6807.5	6821.2	6563.0	6218.3	5887.3	5811.3	5729.3	5659.5	5823.5	6084.7	5612.4
37.5°	7272.1	7299.5	6994.3	6605.5	6294.2	6262.3	6213.7	6183.4	6437.0	6798.4	6221.3
40°	7893.2	7865.9	7442.2	7042.9	6793.8	6792.3	6777.1	6813.6	7235.7	7730.7	7003.4
42.5°	8558.3	8477.8	7917.5	7512.1	7342.0	7393.6	7424.0	7572.8	8196.9	8863.5	7957.0
45°	9275.1	9094.4	8411.0	8008.6	7950.9	8060.3	8163.5	8487.0	9328.2	10152.8	9001.7
47.5°	9847.5	9672.9	8921.3	8529.5	8655.5	8821.0	9020.0	9531.7	10594.7	11484.5	10032.8
50°	10298.5	10184.7	9436.0	9136.9	9431.5	9686.6	10011.5	10714.6	11912.7	12781.3	10987.9
52.5°	10735.9	10650.8	9955.4	9759.5	10342.6	10694.9	11136.8	11984.1	13264.2	14056.9	11791.2
55°	11130.7	11069.9	10514.2	10535.4	11414.6	11873.2	12429.0	13429.7	14737.1	15194.2	12471.5
57.5°	11575.6	11498.2	11151.9	11508.8	12791.9	13387.2	14110.0	15054.5	16119.0	16205.5	12989.3
60°	12023.6	11956.8	11859.6	12632.5	14541.3	15166.9	15851.7	16629.2	17520.6	16990.6	12959.0
62.5°	12412.3	12419.9	12591.5	13812.4	16254.1	16978.5	17813.7	18582.0	18788.5	17127.3	12000.8
65°	13071.3	13191.3	13703.0	15482.7	18665.5	19634.3	20659.3	20536.3	19139.3	15850.2	9946.2
67.5°	13854.9	14066.0	15103.1	17708.9	21713.2	22999.4	23395.7	20978.2	17734.7	12884.6	7089.9
70°	13775.9	14066.0	15707.5	19368.6	24224.8	25087.3	23884.7	18985.9	14082.7	8417.1	3765.9
72.5°	12233.1	12647.7	14476.0	18607.8	23433.7	23357.7	20735.3	14154.0	8367.0	3380.2	1471.4
75°	9323.7	9742.8	11315.9	14700.7	18521.3	17883.5	14712.9	7818.8	3175.2	1342.4	927.8
77.5°	5363.4	5688.3	6903.2	9015.4	11750.2	11095.8	8189.3	3477.4	1545.8	935.4	724.3
80°	2994.5	3175.2	3913.2	4573.8	5758.2	5278.3	3664.2	2160.8	1154.1	678.8	558.8
82.5°	2367.4	2528.3	3164.6	2885.2	2630.1	2426.6	2104.7	1924.0	921.7	428.2	334.1
85°	2068.2	2221.6	2678.7	2271.7	1796.4	1647.6	1709.8	1893.6	716.7	258.1	285.5
87.5°	1916.4	2121.4	2387.1	1750.8	1398.5	1239.1	1577.7	2075.8	230.8	161.0	115.4
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°	4534.3	4534.3	4534.3	4534.3	4534.3	4534.3	4534.3	4534.3	4534.3	4534.3	4534.3
2.5°	4479.6	4455.3	4415.8	4380.9	4326.2	4297.4	4265.5	4242.7	4224.5	4209.3	4233.6
5°	4341.4	4295.9	4212.3	4122.8	4016.5	3932.9	3863.1	3797.8	3752.2	3721.9	3743.1
7.5°	4210.8	4136.4	4005.8	3843.4	3661.1	3506.2	3378.7	3266.3	3188.9	3138.8	3158.5
10°	4136.4	4043.8	3841.8	3586.7	3317.9	3076.5	2876.1	2702.9	2583.0	2514.7	2525.3
12.5°	4118.2	3998.2	3718.8	3368.1	3000.6	2665.0	2382.5	2142.6	1974.1	1886.0	1889.0
15°	4131.9	3978.5	3603.4	3158.5	2693.8	2270.2	1917.9	1626.3	1430.4	1330.2	1328.7
17.5°	4154.6	3963.3	3481.9	2932.2	2382.5	1890.5	1497.3	1211.8	1038.7	958.2	952.1
20°	4178.9	3939.0	3345.3	2687.8	2059.1	1538.3	1172.3	949.1	839.7	795.7	792.7
22.5°	4213.9	3917.8	3204.1	2429.6	1741.7	1252.8	964.3	813.9	756.2	733.4	730.4
25°	4270.1	3907.1	3053.7	2160.8	1456.3	1047.8	839.7	747.1	713.7	698.5	697.0
27.5°	4364.2	3922.3	2912.5	1899.7	1223.9	909.6	769.9	713.7	689.4	675.7	674.2
30°	4485.7	3969.4	2763.7	1652.1	1043.2	815.4	727.4	690.9	671.2	657.5	657.5
32.5°	4687.6	4048.4	2607.3	1438.0	914.1	750.1	695.5	671.2	654.5	643.8	642.3
35°	4985.3	4197.2	2461.5	1260.4	821.5	703.1	668.1	649.9	637.8	631.7	631.7
37.5°	5418.0	4432.5	2332.4	1132.8	765.3	671.2	642.3	628.7	621.1	621.1	621.1
40°	5999.6	4757.5	2227.7	1047.8	733.4	648.4	622.6	612.0	607.4	608.9	608.9
42.5°	6717.9	5179.6	2157.8	988.6	718.3	634.7	608.9	599.8	595.3	593.7	595.3
45°	7536.4	5659.5	2150.2	944.5	703.1	625.6	599.8	590.7	581.6	575.5	575.5
47.5°	8332.1	6146.9	2212.5	929.3	686.4	615.0	592.2	583.1	569.4	555.8	555.8
50°	9035.1	6561.5	2296.0	935.4	680.3	599.8	580.1	575.5	554.3	539.1	537.6
52.5°	9594.0	6880.4	2364.3	953.6	686.4	589.2	564.9	566.4	543.6	526.9	525.4
55°	10041.9	7089.9	2346.1	971.8	700.0	583.1	551.2	554.3	536.0	519.3	519.3
57.5°	10237.8	7012.5	2144.1	956.7	710.7	584.6	540.6	552.7	537.6	522.4	522.4
60°	9817.2	6324.6	1766.0	889.8	697.0	580.1	536.0	558.8	557.3	542.1	540.6
62.5°	8544.7	5093.1	1369.7	791.1	649.9	557.3	523.9	557.3	574.0	569.4	567.9
65°	6585.8	3627.7	1046.3	684.8	586.1	519.3	492.0	522.4	545.1	551.2	549.7
67.5°	4274.6	2223.1	806.3	584.6	514.8	475.3	451.0	464.7	469.2	469.2	466.2
70°	2101.6	1196.6	642.3	492.0	441.9	428.2	414.6	407.0	399.4	393.3	393.3
72.5°	1037.1	782.0	528.4	416.1	381.1	375.1	372.0	362.9	356.9	349.3	346.2
75°	766.8	636.3	449.5	350.8	328.0	321.9	328.0	320.4	318.9	312.8	309.8
77.5°	630.2	542.1	387.2	300.7	280.9	270.3	279.4	280.9	282.4	273.3	270.3
80°	511.7	458.6	323.4	249.0	230.8	223.2	229.3	241.4	244.5	230.8	224.7
82.5°	369.0	375.1	261.2	194.4	179.2	173.1	185.3	200.4	203.5	183.7	179.2
85°	309.8	312.8	200.4	138.2	123.0	113.9	133.6	148.8	159.4	139.7	135.1
87.5°	129.1	183.7	115.4	77.4	68.3	59.2	71.4	79.0	95.7	88.1	86.6
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)