

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: P383569

Luminaire Tested: **GLEON-SA8C-735-U-T2R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383569
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-8)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA8C-735-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 55013.5 lumens
Efficiency: N/A
Efficacy: 123.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G5

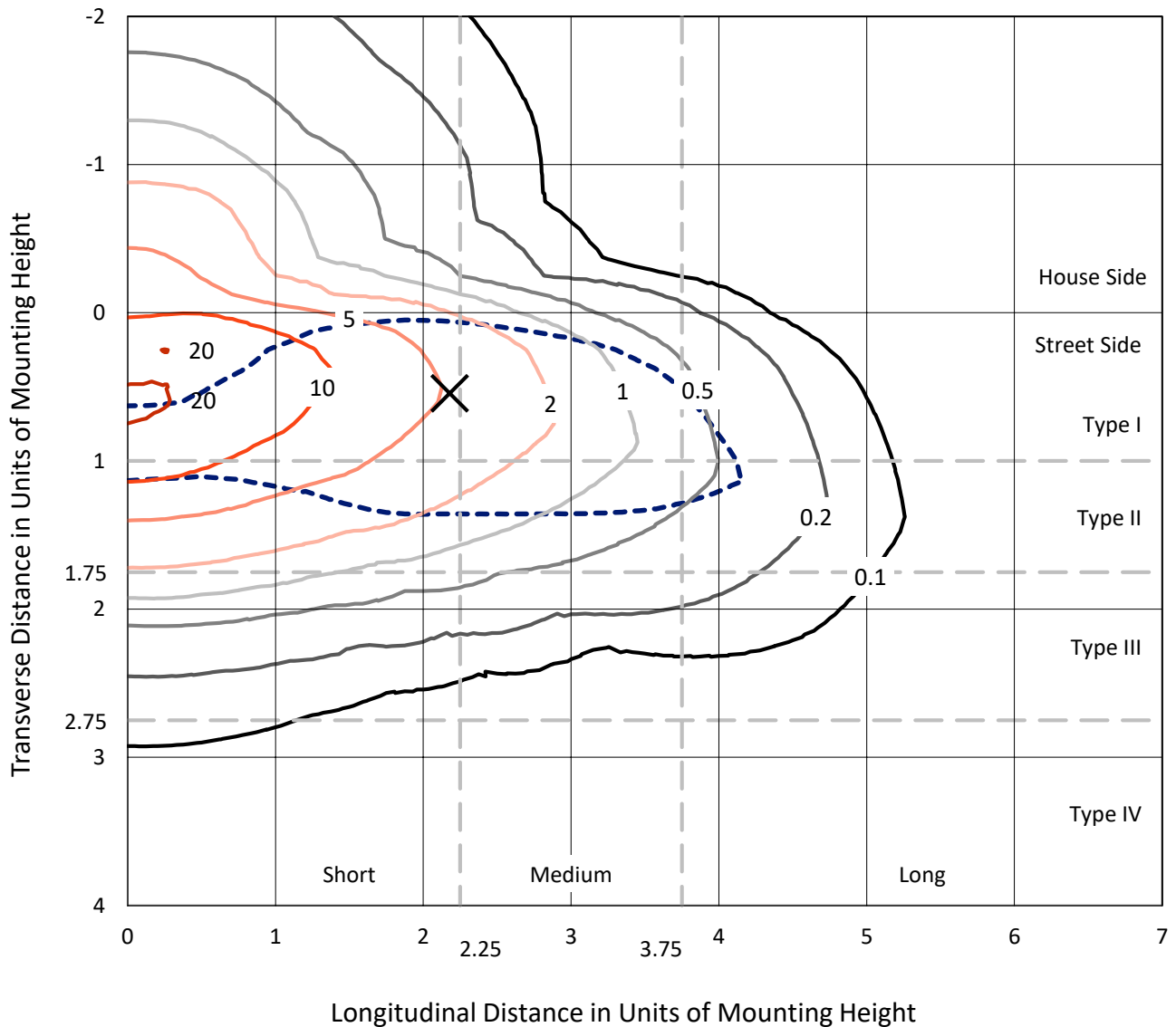
Input Watts (W): 445
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P383569
 CATALOG NUMBER: GLEON-SA8C-735-U-T2R

Iso-Footcandle Lines of Horizontal Illumination

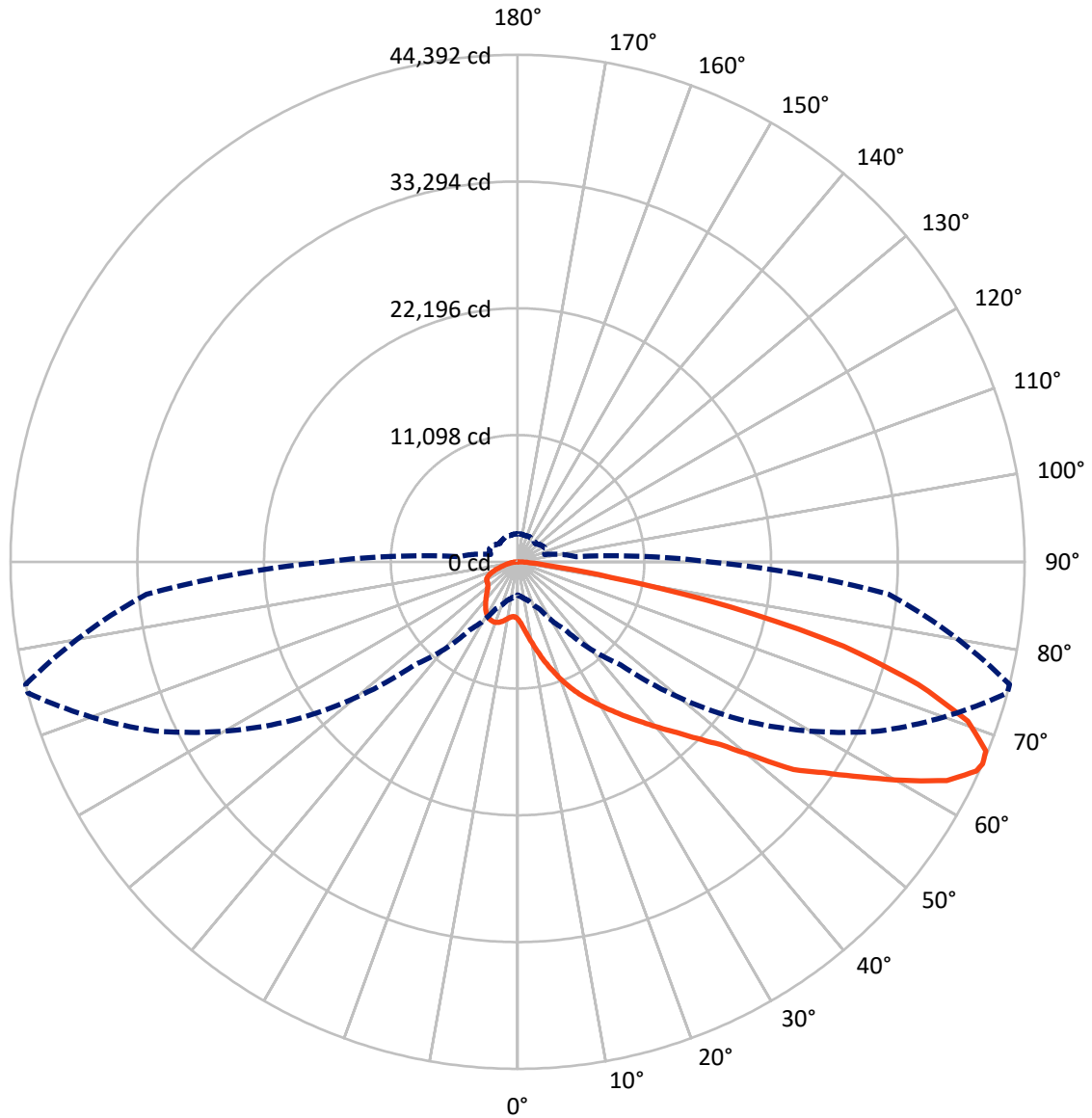
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21.3 fc
 Type II - Short - N/A

REPORT NUMBER: P383569
CATALOG NUMBER: GLEON-SA8C-735-U-T2R

Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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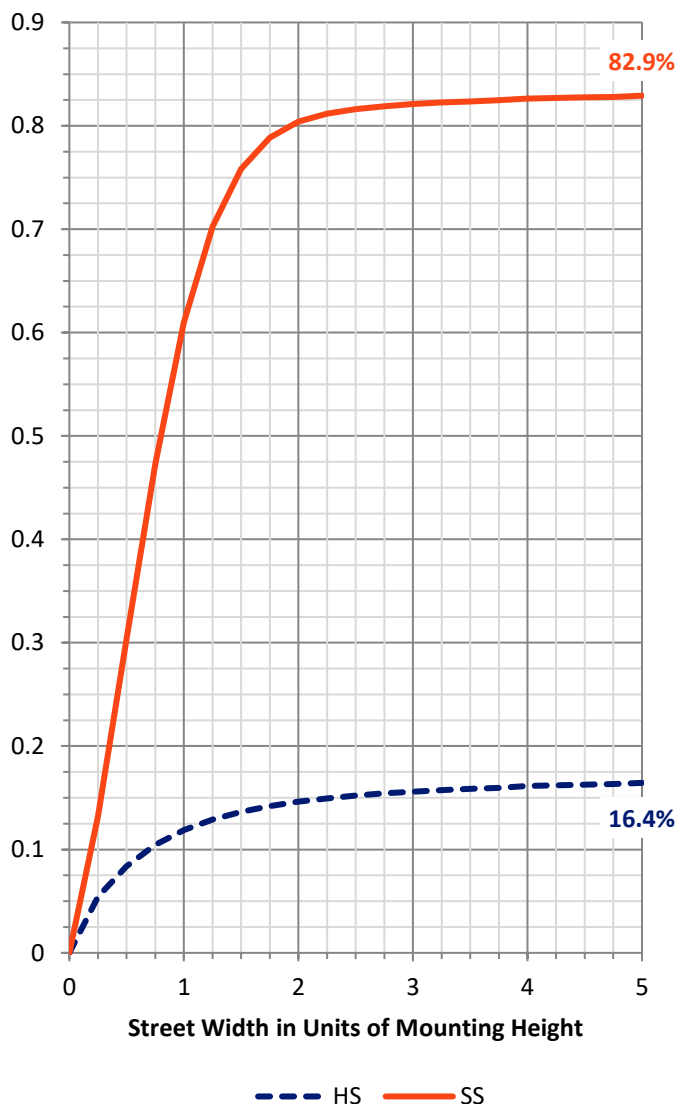
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9256.9	0.0	9256.9
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	45756.6	0.0	45756.6
	% Fixture	83.2	0.0	83.2
Total	Lumens	55013.5	0.0	55013.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	607.5	1.1
10°-20°	2399.1	4.4
20°-30°	4662.1	8.5
30°-40°	7609.5	13.8
40°-50°	10396.4	18.9
50°-60°	12109.8	22.0
60°-70°	10856.6	19.7
70°-80°	5486.5	10.0
80°-90°	886.0	1.6
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°	55013.5	100.0
0°-180°	55013.5	100.0

Coefficient of Utilization

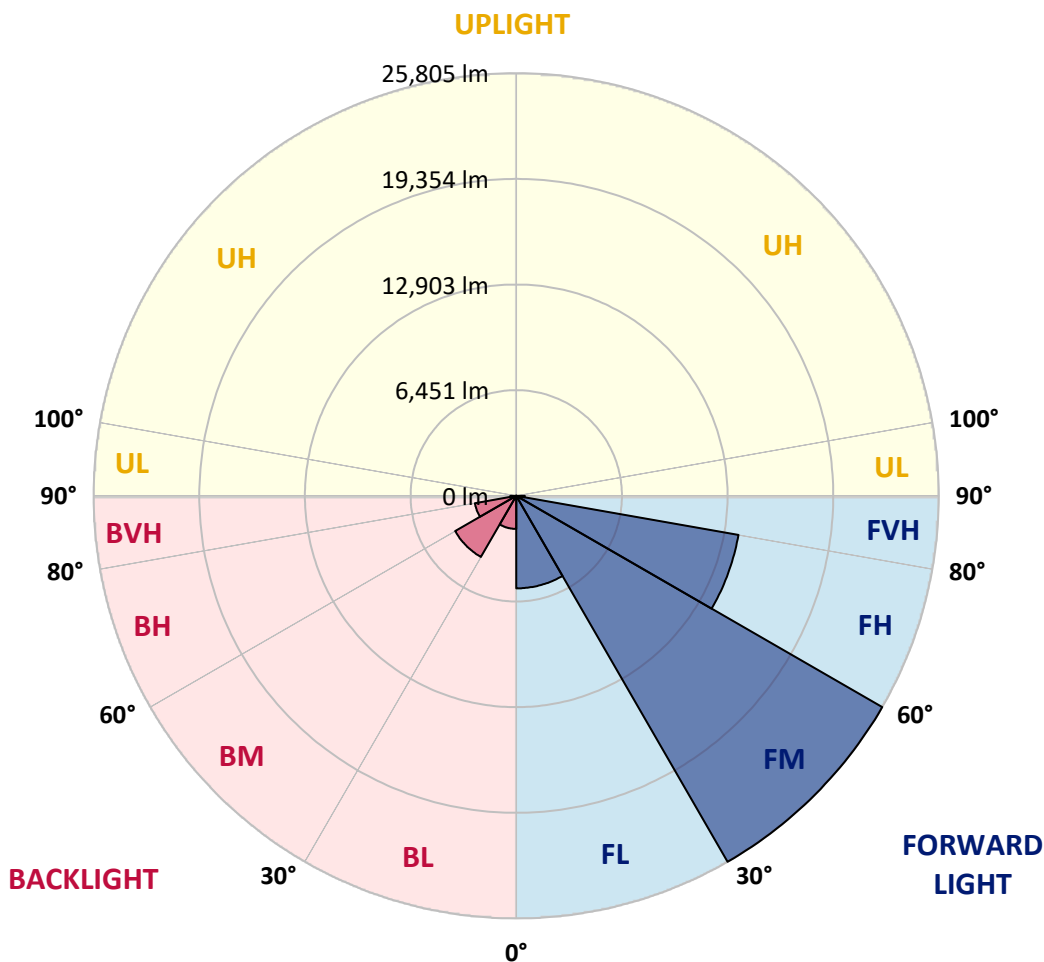


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5649.7	10.3			
FM (30°-60°)	25805.1	46.9			
FH (60°-80°)	13778.5	25.0			G5
FVH (80°-90°)	523.2	1.0			G4/750
BL (0°-30°)	2019.0	3.7	B3/2500		
BM (30°-60°)	4310.6	7.8	B3/5000		
BH (60°-80°)	2564.6	4.7	B4/5000		G4/5000
BVH (80°-90°)	362.8	0.7			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	5023.9	5023.9	5023.9	5023.9	5023.9	5023.9	5023.9	5023.9	5023.9	5023.9	5023.9
2.5°	6669.3	6568.5	6559.2	6411.7	6378.0	6096.0	5888.7	5672.0	5425.5	5377.0	5182.8
5°	8566.9	8557.6	8428.7	8187.7	7999.1	7517.3	7041.0	6536.8	5984.0	5894.3	5457.3
7.5°	10273.9	10258.9	10160.0	9900.4	9627.7	9035.6	8355.9	7582.6	6686.2	6553.5	5829.0
10°	11570.1	11564.5	11530.9	11340.4	11108.8	10541.0	9790.2	8735.0	7502.3	7321.2	6294.0
12.5°	12571.1	12582.3	12604.8	12537.5	12427.3	11943.6	11174.1	9956.5	8372.7	8193.3	6811.3
15°	13249.1	13282.8	13398.5	13493.7	13551.7	13254.7	12509.5	11205.9	9347.6	9132.8	7384.7
17.5°	13590.9	13628.3	13828.1	14115.6	14380.9	14351.0	13759.0	12397.4	10283.3	10076.0	8001.0
20°	13885.9	13914.0	14138.1	14483.6	14952.4	15159.7	14827.3	13544.1	11308.6	11062.0	8654.6
22.5°	14741.4	14776.9	14844.0	15040.2	15454.7	15835.8	15675.2	14629.3	12248.0	12018.3	9274.8
25°	16392.3	16435.3	16289.6	16123.4	16201.8	16467.1	16497.0	15619.2	13200.5	12941.0	9941.5
27.5°	18381.4	18443.1	18194.6	17766.9	17393.4	17290.6	17255.1	16429.7	14110.1	13809.4	10600.7
30°	20329.3	20435.8	20112.7	19558.0	18872.6	18390.7	18034.0	17223.5	15006.6	14718.9	11222.7
32.5°	22232.5	22189.6	21720.7	21179.1	20376.0	19772.7	18910.0	18075.1	16015.1	15684.5	11840.9
35°	23536.1	23551.0	23115.9	22473.4	21707.7	21244.5	20082.8	18994.0	17044.2	16739.7	12543.1
37.5°	24645.5	24576.4	24083.3	23483.8	22824.5	22626.5	21455.5	20006.2	18159.1	17826.7	13290.2
40°	25015.3	24934.9	24611.9	24180.5	23651.9	23635.0	22970.2	21152.9	19419.8	19091.1	14132.5
42.5°	24791.2	24688.4	24555.8	24438.1	24275.7	24350.4	24393.3	22497.7	20805.6	20437.7	15107.4
45°	23963.8	23808.8	23902.1	24158.0	24511.0	24933.1	25678.3	23986.2	22357.6	22049.5	16252.2
47.5°	22691.9	22551.8	22843.2	23390.4	24350.4	25418.7	26894.2	25629.8	24210.3	23904.0	17882.7
50°	20902.7	20943.8	21360.3	22355.7	23806.9	25642.8	28392.0	27805.6	26903.5	26617.7	20107.1
52.5°	17966.8	17974.2	19147.1	20781.3	22843.2	25527.0	29223.1	30586.4	30580.8	30235.3	22225.0
55°	15240.0	15406.2	16334.4	18506.5	21281.9	25063.8	29803.9	31938.7	32995.7	32590.5	24199.1
57.5°	12576.7	12673.9	13553.6	15735.0	19053.8	23829.3	30399.7	33561.6	35778.5	35522.6	26653.2
60°	9547.4	9696.9	10606.4	12621.5	16203.7	21638.5	30455.7	35255.5	39104.8	38847.0	29393.0
62.5°	6196.8	6454.6	7306.2	9194.5	12756.1	18487.9	29155.9	36363.1	42257.4	42165.9	31824.7
65°	3561.6	3755.8	4347.9	5804.7	8800.3	14532.1	26064.9	35937.2	44197.8	44145.6	32734.2
66°	2909.8	3031.2	3485.0	4536.5	7261.4	12761.6	24268.2	35039.0	44390.2	44392.1	32629.7
67.5°	2327.1	2381.2	2584.9	3247.8	5358.3	10115.2	21057.7	33057.4	44151.2	44216.6	31955.4
70°	1925.5	1953.5	2017.1	2177.7	2924.8	6099.8	14946.8	27908.2	41751.2	41801.7	29323.9
72.5°	1727.6	1744.4	1768.6	1791.1	2063.8	3408.4	9129.1	22325.8	36605.9	36671.2	25314.1
75°	1565.1	1574.4	1570.7	1572.5	1731.3	2172.1	4717.6	16668.7	29598.4	29467.7	19391.7
77.5°	1374.6	1383.9	1365.3	1369.0	1531.5	1669.7	2347.6	11669.0	19974.5	19051.8	10925.7
80°	1161.6	1169.2	1161.6	1174.8	1333.5	1260.7	1365.3	6564.8	8832.1	8354.0	3884.7
82.5°	877.8	909.6	931.9	984.3	1098.2	896.4	913.3	2556.8	2689.4	2560.5	1191.5
85°	384.7	468.8	702.2	752.7	825.5	537.9	599.5	1042.1	1094.5	1060.8	433.3
87.5°	100.9	110.2	347.4	437.0	457.6	242.8	311.9	474.3	500.5	474.3	143.8
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°	5023.9	5023.9	5023.9	5023.9	5023.9	5023.9	5023.9	5023.9	5023.9	5023.9	5023.9
2.5°	5080.0	4988.5	4824.1	4678.4	4568.3	4493.6	4418.9	4381.5	4359.1	4336.6	4340.5
5°	5242.5	5057.6	4775.6	4575.8	4463.7	4392.7	4355.4	4340.5	4331.0	4308.7	4308.7
7.5°	5487.2	5225.7	4837.2	4631.7	4544.0	4489.8	4467.4	4460.0	4448.7	4422.6	4426.3
10°	5795.3	5429.2	4966.1	4766.3	4686.0	4626.2	4594.4	4583.2	4562.6	4532.8	4536.5
12.5°	6157.6	5681.4	5136.0	4926.9	4829.7	4749.4	4697.1	4665.4	4629.9	4590.7	4592.5
15°	6553.5	5955.9	5319.0	5070.7	4938.0	4826.0	4741.9	4687.8	4631.7	4583.2	4581.4
17.5°	6955.1	6221.2	5459.1	5149.1	4969.8	4822.2	4708.3	4624.3	4555.2	4495.5	4489.8
20°	7388.4	6460.2	5537.6	5141.7	4910.0	4734.5	4583.2	4478.6	4402.0	4342.3	4332.9
22.5°	7829.2	6684.3	5550.6	5065.1	4777.4	4562.6	4403.9	4288.1	4209.7	4148.1	4125.6
25°	8232.6	6858.0	5496.5	4917.5	4592.5	4360.9	4205.9	4088.3	4024.8	3951.9	3929.5
27.5°	8600.5	6979.4	5388.2	4728.9	4385.3	4157.4	4011.7	3910.8	3841.8	3785.7	3767.1
30°	8931.1	7044.7	5210.7	4504.8	4172.3	3965.0	3841.8	3772.7	3712.9	3641.9	3628.8
32.5°	9244.9	7044.7	4982.8	4260.1	3961.3	3795.0	3722.2	3679.2	3612.1	3543.0	3524.2
35°	9558.6	7001.8	4713.9	4004.3	3767.1	3673.7	3669.9	3619.5	3516.8	3423.4	3399.1
37.5°	9889.2	6914.0	4411.3	3765.2	3608.3	3619.5	3651.3	3539.2	3393.5	3260.9	3225.4
40°	10262.8	6792.7	4097.6	3557.9	3475.7	3595.2	3600.8	3423.4	3139.5	3018.1	2986.4
42.5°	10701.6	6671.3	3806.3	3374.8	3371.1	3522.4	3505.6	3173.1	3003.2	2941.5	2924.8
45°	11278.7	6602.2	3529.8	3201.2	3288.9	3404.7	3343.0	3034.9	2964.0	2928.5	2913.5
47.5°	12188.3	6637.6	3275.9	3062.9	3206.8	3287.1	3040.6	2978.9	2928.5	2885.5	2870.6
50°	13327.6	6617.1	3070.4	2967.7	3113.3	3163.8	2904.2	2906.1	2879.9	2831.3	2808.9
52.5°	14184.8	6456.5	2937.8	2913.5	3031.2	2945.3	2818.3	2835.1	2822.0	2751.0	2726.7
55°	15012.2	6318.2	2870.6	2893.0	2971.5	2672.6	2717.4	2758.5	2745.5	2676.3	2665.2
57.5°	16041.2	6292.1	2829.5	2898.6	2921.0	2536.2	2620.4	2674.5	2665.2	2635.3	2629.7
60°	17301.9	6299.6	2792.1	2907.9	2865.0	2435.4	2528.8	2597.9	2603.5	2597.9	2594.2
62.5°	17994.8	6096.0	2698.8	2881.7	2766.0	2347.6	2433.6	2534.4	2536.2	2547.5	2545.6
65°	17406.4	5487.2	2525.1	2790.3	2599.8	2274.8	2351.4	2461.5	2433.6	2484.0	2484.0
66°	16834.9	5136.0	2439.2	2730.5	2528.8	2246.8	2325.2	2424.2	2388.7	2457.8	2457.8
67.5°	15667.7	4544.0	2284.2	2603.5	2428.0	2207.6	2295.3	2362.6	2314.1	2416.7	2409.3
70°	13534.8	3514.9	1972.3	2315.9	2261.7	2149.6	2254.3	2239.3	2168.4	2325.2	2295.3
72.5°	11411.4	2670.7	1583.7	1938.6	2009.6	2076.8	2196.3	2082.4	1992.8	2103.0	2037.6
75°	8854.5	2007.8	1251.3	1507.2	1697.7	1962.9	2127.3	1901.3	1772.4	1761.2	1725.7
77.5°	4786.8	1378.3	991.7	1150.5	1348.4	1821.0	2080.5	1707.1	1512.8	1467.9	1440.0
80°	1895.7	896.4	720.9	872.2	943.2	1615.5	1968.5	1481.1	1247.6	1202.7	1159.8
82.5°	782.5	530.4	465.0	584.5	614.4	1382.0	1766.8	1214.0	963.7	1333.5	1415.7
85°	336.2	291.4	276.4	302.6	347.4	969.3	1406.4	926.3	1040.3	928.2	737.7
87.5°	100.9	123.2	117.7	115.8	127.0	231.6	749.0	515.4	763.9	289.5	216.7
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)