

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: P383573

Luminaire Tested: **GLEON-SA8C-735-U-T3R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383573
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-10)
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-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 53991.6 lumens
Efficiency: N/A
Efficacy: 121.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B4 - U0 - G5

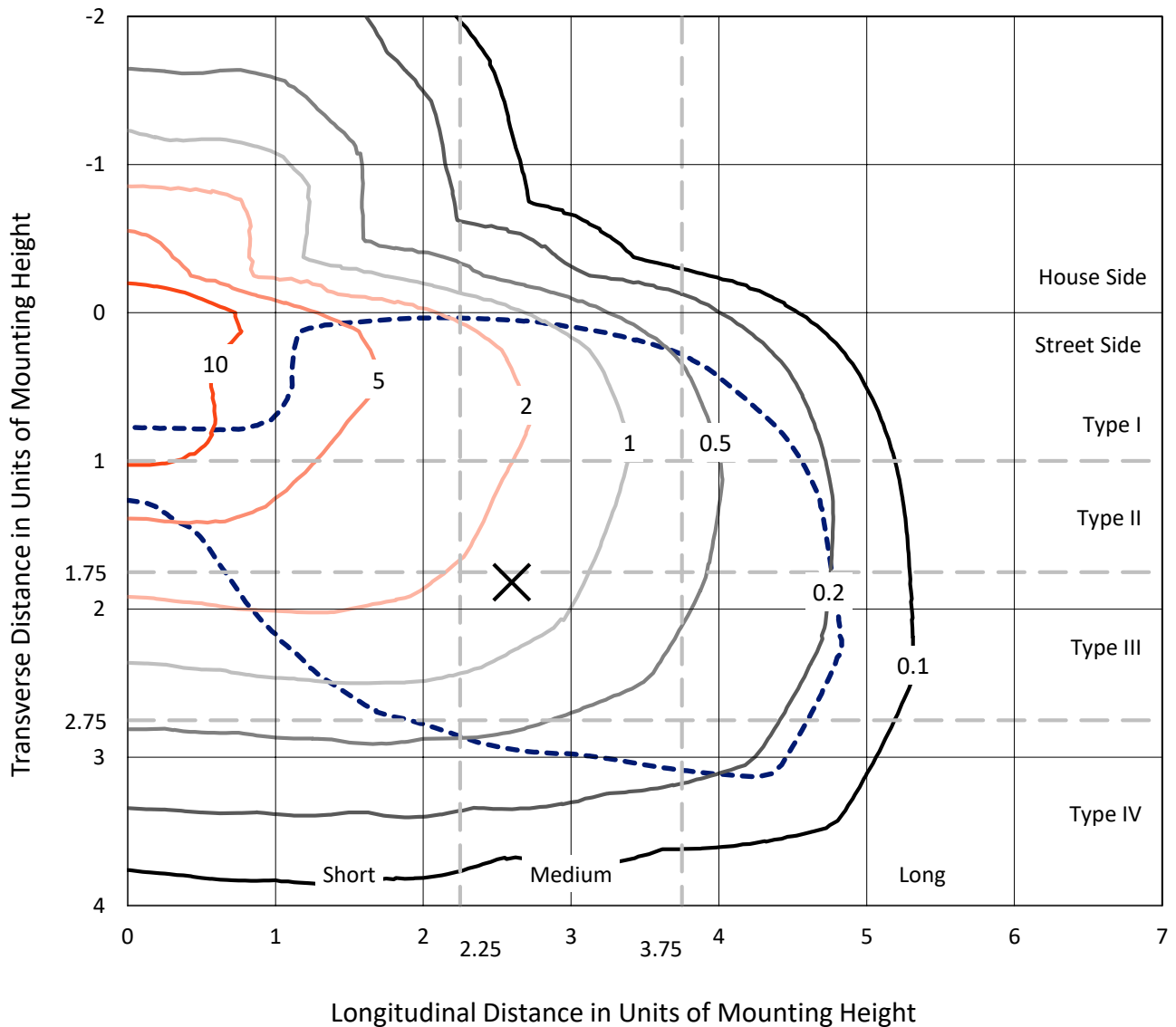
Input Watts (W): 445
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

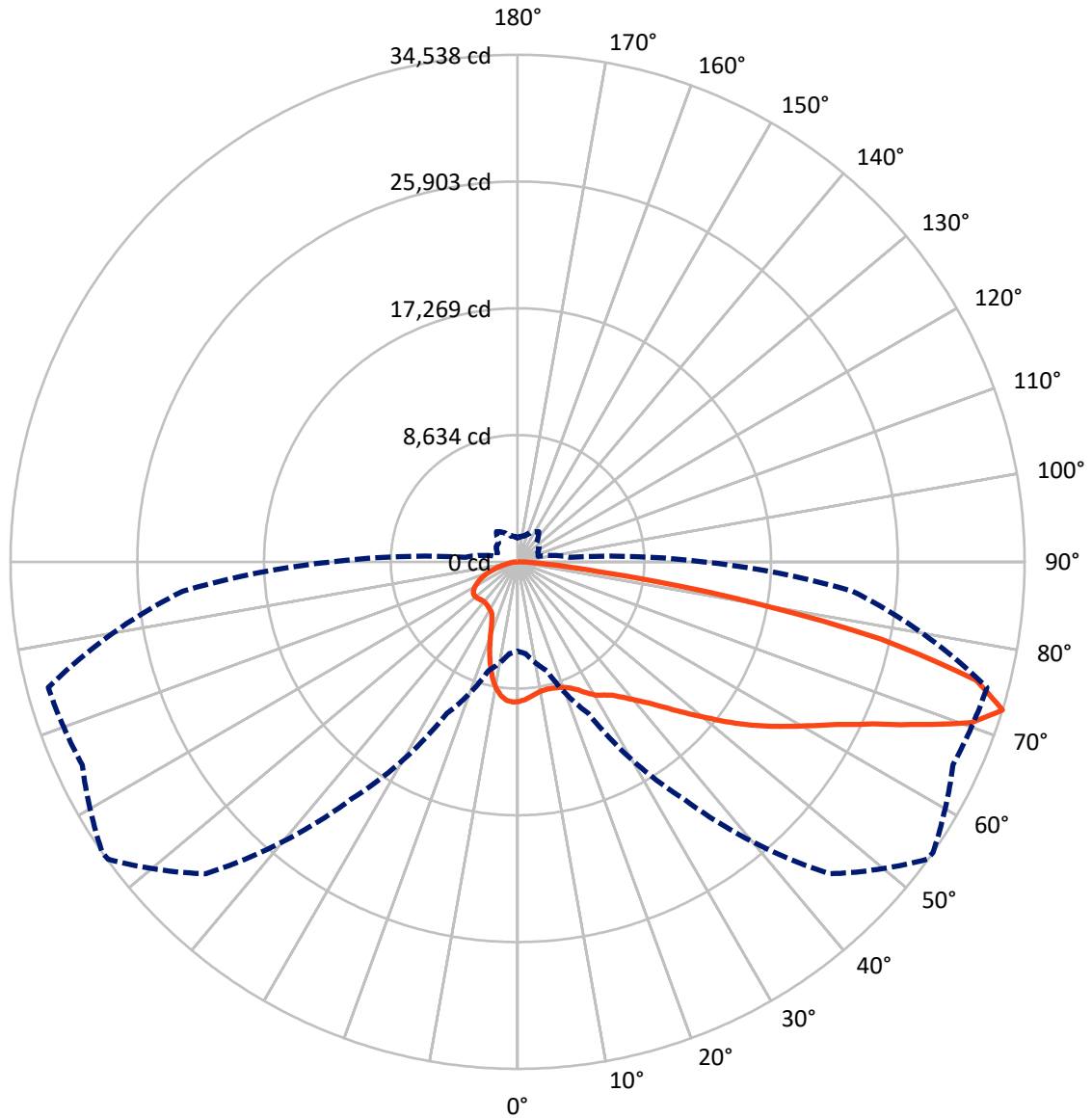
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.3 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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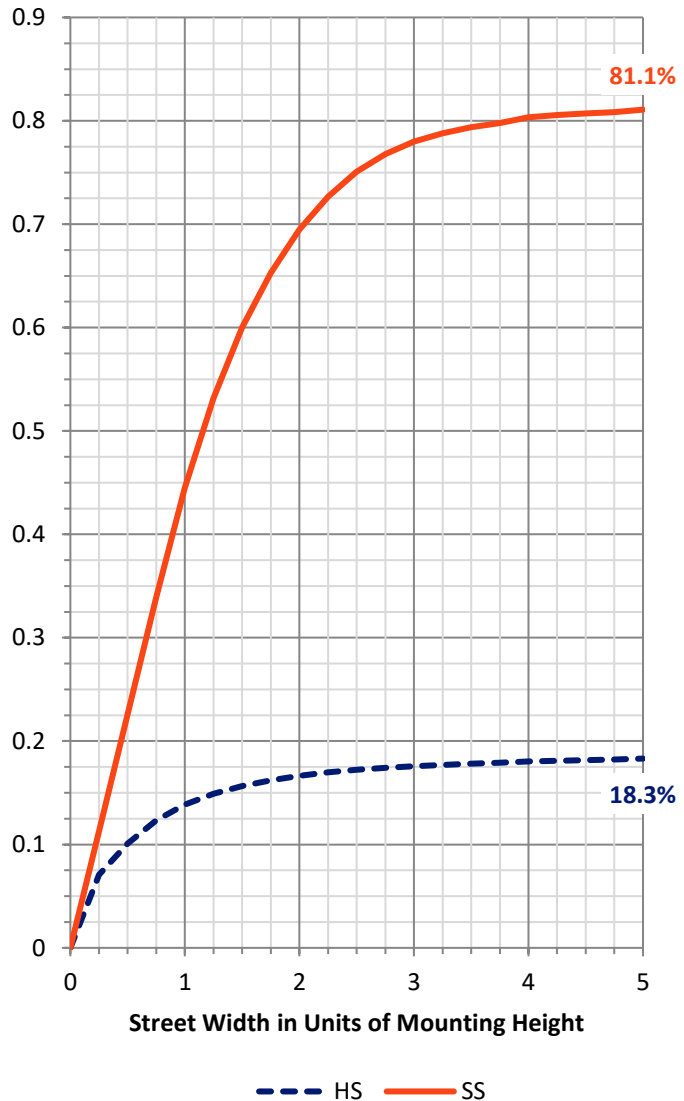
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10035.3	0.0	10035.3
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	43956.3	0.0	43956.3
	% Fixture	81.4	0.0	81.4
Total	Lumens	53991.6	0.0	53991.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	861.7	1.6
10°-20°	2294.2	4.2
20°-30°	3782.6	7.0
30°-40°	5595.4	10.4
40°-50°	7810.0	14.5
50°-60°	10168.8	18.8
60°-70°	12497.2	23.1
70°-80°	9796.3	18.1
80°-90°	1185.5	2.2
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°	53991.6	100.0
0°-180°	53991.6	100.0

Coefficient of Utilization

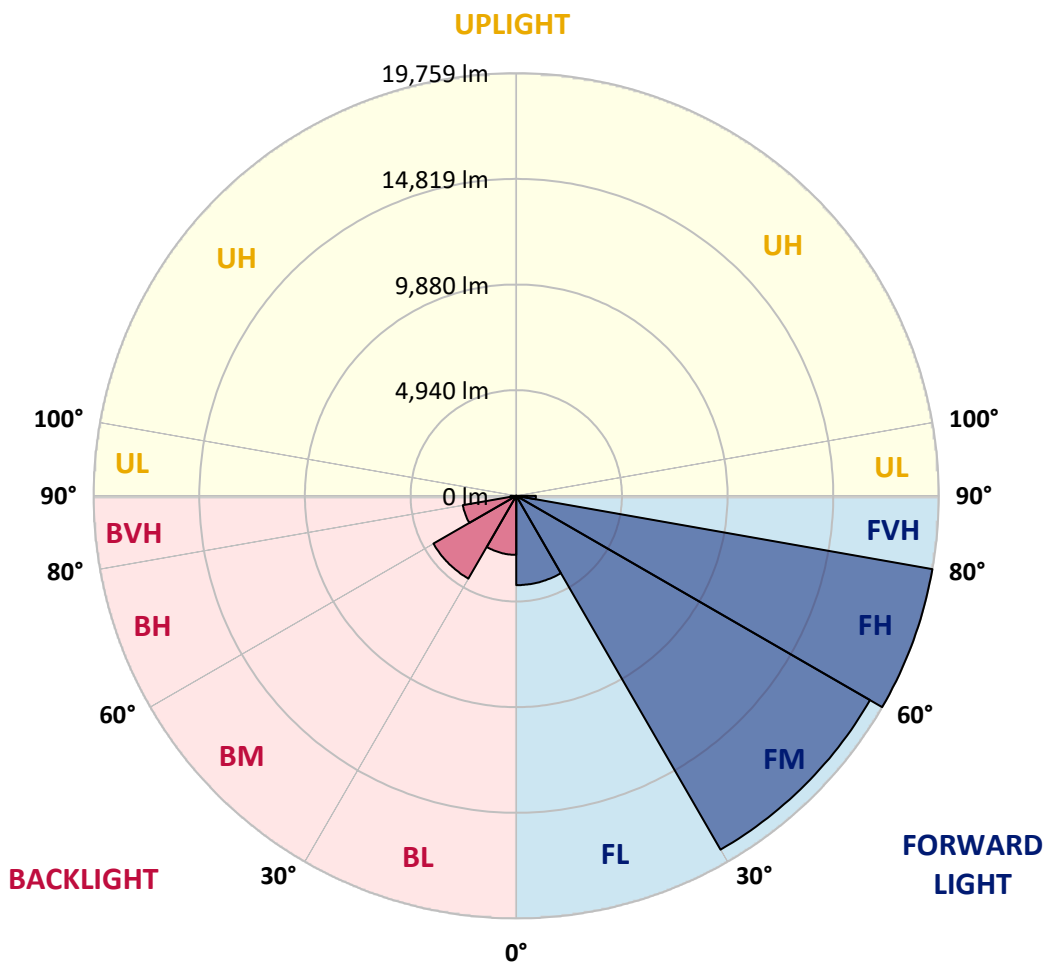


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4177.4	7.7			
FM (30°-60°)	19103.3	35.4			
FH (60°-80°)	19759.1	36.6			G5
FVH (80°-90°)	916.6	1.7			G5
BL (0°-30°)	2761.1	5.1	B4/5000		
BM (30°-60°)	4470.9	8.3	B3/5000		
BH (60°-80°)	2534.4	4.7	B4/5000		G4/5000
BVH (80°-90°)	268.9	0.5			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 IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	9522.9	9522.9	9522.9	9522.9	9522.9	9522.9	9522.9	9522.9	9522.9	9522.9	9522.9
2.5°	9212.9	9191.0	9218.4	9256.7	9298.6	9355.2	9388.0	9402.6	9459.1	9481.0	9528.4
5°	8786.2	8775.3	8820.8	8886.5	8979.5	9110.8	9216.5	9236.7	9386.2	9491.9	9588.6
7.5°	8476.2	8476.2	8529.1	8607.5	8711.5	8888.4	9037.9	9065.3	9318.7	9546.7	9725.4
10°	8230.0	8239.2	8301.1	8394.2	8516.3	8704.1	8902.9	8933.9	9300.5	9674.3	9958.8
12.5°	8065.9	8087.8	8144.3	8228.2	8379.6	8607.5	8859.1	8901.1	9338.8	9856.7	10239.7
15°	8169.9	8206.3	8211.8	8246.4	8330.3	8578.3	8884.7	8928.4	9420.8	10042.6	10558.8
17.5°	8625.8	8638.5	8582.0	8509.0	8468.9	8627.5	8961.3	9006.9	9519.3	10226.9	10865.1
20°	9318.7	9311.4	9189.3	8992.3	8788.0	8813.6	9087.1	9134.5	9652.4	10389.2	11171.5
22.5°	10194.0	10168.5	9980.7	9617.8	9269.5	9123.6	9307.7	9347.9	9853.1	10620.8	11499.8
25°	11255.4	11198.9	10950.8	10464.0	9951.5	9575.8	9639.7	9677.9	10144.8	10879.7	11800.7
27.5°	12375.1	12318.6	12003.1	11414.1	10732.0	10146.6	10097.4	10130.2	10476.7	11071.2	12023.1
30°	13545.8	13485.6	13197.5	12537.4	11559.9	10737.5	10524.2	10536.9	10710.1	11175.1	12205.5
32.5°	14722.1	14665.5	14342.8	13576.8	12459.0	11372.1	10832.3	10815.9	10850.6	11282.7	12411.6
35°	15914.7	15936.6	15559.2	14711.2	13454.7	12077.9	11197.0	11162.4	11085.8	11503.4	12703.3
37.5°	17191.2	17176.7	16687.9	15801.7	14496.0	12843.8	11720.5	11715.0	11450.5	11921.0	13161.1
40°	18044.7	18053.9	17756.6	16917.7	15548.2	13691.8	12391.5	12378.8	12032.2	12546.5	13761.0
42.5°	18378.5	18438.7	18515.3	17982.7	16649.6	14674.7	13192.1	13173.9	12843.8	13443.7	14466.7
45°	18402.2	18522.5	18996.7	18929.2	17765.7	15799.9	14215.1	14164.1	13927.0	14636.4	15309.3
47.5°	18197.9	18322.0	19109.8	19492.7	18763.2	16987.0	15411.4	15371.3	15167.1	16128.1	16221.1
50°	17751.1	17869.7	18876.3	19768.1	19583.8	18128.7	16790.1	16684.3	16574.9	17851.4	17264.2
52.5°	16914.1	17142.1	18564.4	19833.7	20074.4	19142.6	18239.9	18170.6	18230.8	19669.5	18309.2
55°	14931.8	15187.1	17760.2	19779.0	20437.3	19994.2	19689.7	19686.0	19997.8	21577.1	19430.7
57.5°	13821.2	14001.7	16122.7	19686.0	20867.7	20840.3	21124.8	21159.5	21766.7	23654.2	20605.1
60°	13193.9	13383.5	15292.8	19341.4	21535.1	21934.5	22589.2	22658.5	23564.8	25953.8	22018.4
62.5°	12623.1	12831.0	14778.6	18639.2	22321.1	23499.2	24343.5	24405.5	25468.7	28317.2	23384.3
65°	11647.5	11882.7	14025.5	18177.8	23036.0	25539.8	26573.8	26615.7	27655.2	30793.7	24429.3
67.5°	10268.8	10484.0	12604.9	17158.5	23564.8	28018.2	29539.0	29562.8	29823.5	32542.5	24963.5
70°	8658.5	8740.6	10580.6	15054.0	22939.4	30335.9	32788.7	32794.2	31800.3	33662.2	24876.0
72.5°	6083.6	6276.9	7681.1	11395.8	19713.3	30053.3	34475.6	34537.6	32719.4	33096.9	22888.3
75°	3731.1	3935.4	4818.0	6906.0	12506.4	23636.0	31853.2	32283.5	30996.1	29509.8	18697.6
77.5°	2494.7	2571.4	3143.9	4026.5	5666.0	13598.7	24489.5	25299.1	25749.6	21520.5	11957.5
80°	1391.5	1537.3	2084.4	2502.0	2520.2	5403.3	14683.8	14873.5	14326.4	8569.2	3689.2
82.5°	736.8	817.0	1391.5	1469.8	1375.0	1809.1	5472.7	5478.2	4577.3	2297.8	1096.0
85°	570.8	638.3	953.7	897.3	702.1	802.4	1805.3	1903.9	1557.4	941.0	357.4
87.5°	284.5	353.8	647.4	569.0	275.4	229.8	645.6	689.3	614.5	368.3	129.5
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°	9522.9	9522.9	9522.9	9522.9	9522.9	9522.9	9522.9	9522.9	9522.9	9522.9	9522.9
2.5°	9546.7	9563.1	9583.1	9561.2	9554.0	9524.8	9475.5	9464.6	9439.1	9440.9	9455.5
5°	9630.5	9657.9	9646.9	9563.1	9462.8	9322.4	9176.5	9052.5	8970.4	8964.9	8959.4
7.5°	9791.0	9809.3	9723.6	9484.6	9203.8	8879.2	8572.8	8304.7	8142.5	8102.3	8093.2
10°	10042.6	10039.0	9803.8	9322.4	8762.5	8182.6	7690.2	7318.2	7101.2	7037.4	7021.0
12.5°	10323.5	10281.6	9831.2	9026.9	8138.8	7334.6	6711.0	6297.0	6070.8	5997.9	5979.7
15°	10613.5	10509.5	9763.6	8585.6	7372.9	6421.0	5766.3	5383.3	5261.1	5221.0	5213.8
17.5°	10883.4	10682.8	9570.3	7987.5	6499.4	5510.9	5000.4	4847.2	4876.4	4929.3	4931.1
20°	11147.8	10799.5	9260.3	7232.4	5578.5	4761.5	4588.2	4701.3	4839.9	4947.4	4962.1
22.5°	11408.6	10881.6	8861.0	6360.8	4754.2	4340.2	4462.4	4668.5	4827.1	4943.8	4963.9
25°	11627.4	10901.6	8310.2	5430.7	4181.5	4181.5	4402.2	4597.4	4754.2	4869.1	4889.1
27.5°	11707.7	10766.6	7533.4	4570.0	3893.4	4108.6	4318.4	4480.7	4613.8	4736.0	4757.8
30°	11738.6	10516.8	6636.2	3878.9	3774.9	4030.2	4205.3	4343.9	4469.7	4584.6	4604.6
32.5°	11744.1	10215.9	5684.2	3486.8	3692.8	3948.2	4064.8	4187.0	4322.0	4367.6	4374.8
35°	11778.8	9860.3	4681.2	3286.1	3616.3	3871.5	3964.6	4052.0	3833.2	3849.6	3864.2
37.5°	11879.1	9508.4	3842.4	3173.1	3567.0	3831.5	3942.7	3625.4	3453.9	3413.8	3408.3
40°	12066.9	9132.7	3220.5	3081.9	3548.7	3851.5	3802.2	3384.7	3089.2	2868.5	2835.7
42.5°	12327.6	8727.9	2823.0	3021.8	3561.5	3948.2	3607.1	3153.0	2662.5	2520.2	2502.0
45°	12621.3	8303.0	2607.8	2979.8	3605.3	4022.9	3567.0	2844.9	2463.8	2356.2	2347.0
47.5°	12905.8	7783.2	2496.5	2961.6	3665.5	3962.7	3397.4	2750.0	2368.9	2312.4	2317.8
50°	13232.2	7314.5	2429.1	2941.5	3718.4	3924.4	3205.9	2700.7	2332.4	2401.7	2474.7
52.5°	13507.5	6829.5	2368.9	2901.4	3738.4	3857.0	3156.6	2709.9	2332.4	2465.5	2534.8
55°	13833.9	6462.9	2299.6	2817.5	3700.1	3665.5	3122.1	2764.6	2359.8	2275.9	2283.1
57.5°	14255.3	6342.5	2223.0	2686.2	3572.5	3386.5	3105.6	2817.5	2343.3	2290.5	2308.7
60°	14838.8	6470.3	2192.0	2514.8	3373.7	3167.6	3107.5	2790.2	2228.4	2137.2	2139.1
62.5°	15395.0	6612.5	2190.2	2407.2	3129.3	2972.5	3065.5	2700.7	2170.1	2117.2	2137.2
65°	15577.3	6468.4	2102.6	2286.9	2854.0	2739.1	2988.9	2605.9	2126.4	2046.1	2042.4
67.5°	15333.0	6021.6	1925.8	2091.7	2538.5	2467.4	2888.6	2492.9	2057.0	1991.4	1980.5
70°	14607.2	5024.1	1706.9	1834.6	2179.3	2161.0	2730.0	2361.6	1964.1	1907.5	1860.1
72.5°	12654.1	3579.8	1438.9	1526.3	1774.4	1832.7	2511.2	2190.2	1832.7	1710.6	1637.6
75°	10392.8	2649.7	1181.7	1199.9	1347.7	1506.3	2210.2	1989.6	1677.7	1469.8	1413.3
77.5°	6364.4	1621.2	941.0	948.3	966.5	1201.8	1820.0	1765.3	1480.8	1225.5	1185.4
80°	2060.7	884.4	680.2	714.9	660.2	880.8	1407.8	1502.7	1271.1	1024.9	981.1
82.5°	784.2	516.1	459.5	483.3	457.8	590.9	1026.7	1203.6	1041.3	842.5	685.7
85°	379.3	291.8	271.7	304.5	282.6	302.8	656.5	886.3	789.7	548.9	510.6
87.5°	135.0	129.5	104.0	140.4	120.4	107.6	200.6	446.8	521.6	377.5	337.4
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)