

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: P383683

Luminaire Tested: **GLEON-SA9C-735-U-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383683
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-14)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA9C-735-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 58916.6 lumens
Efficiency: N/A
Efficacy: 117.6 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G5

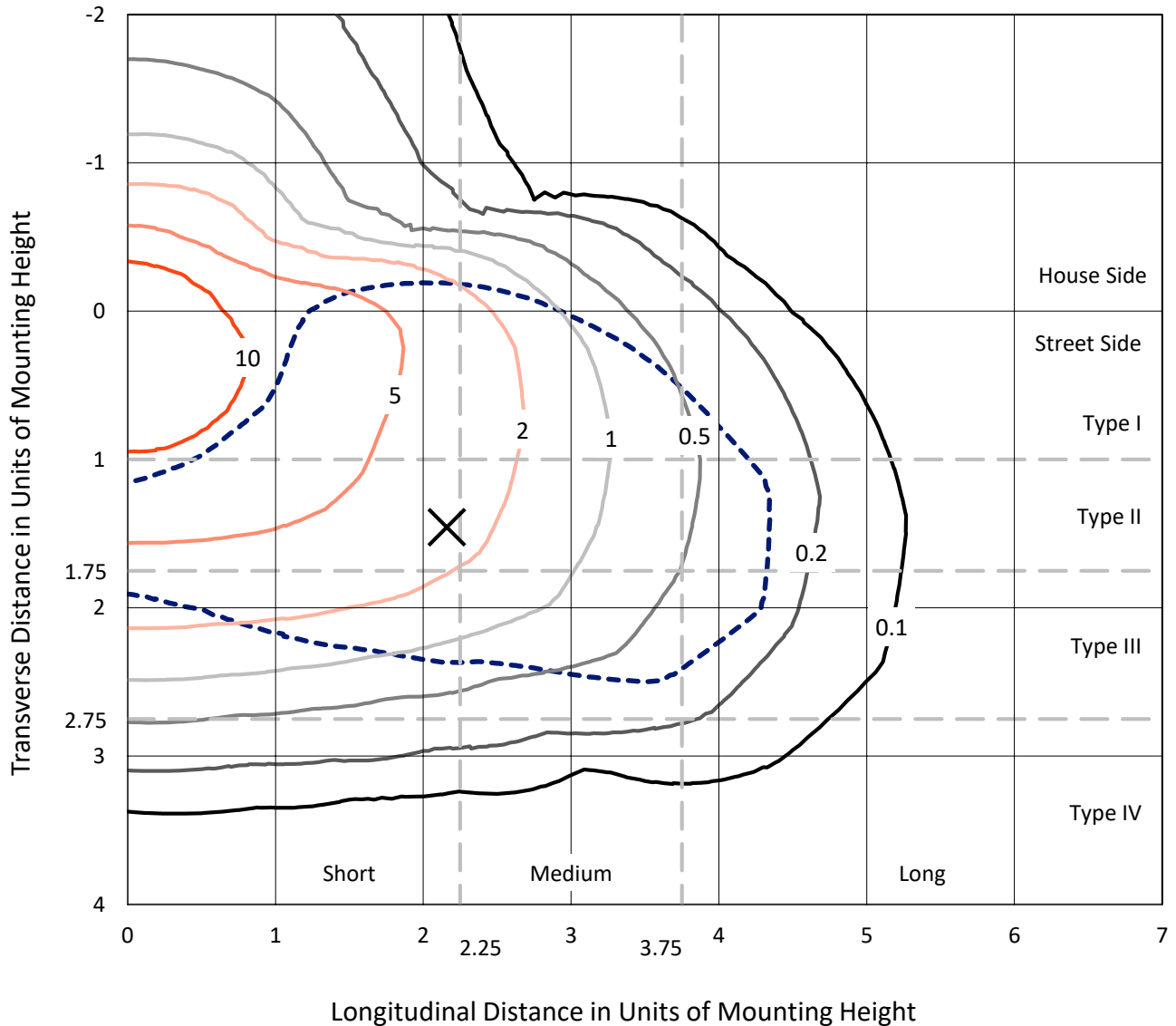
Input Watts (W): 501
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P383683
 CATALOG NUMBER: GLEON-SA9C-735-U-T3

Iso-Footcandle Lines of Horizontal Illumination

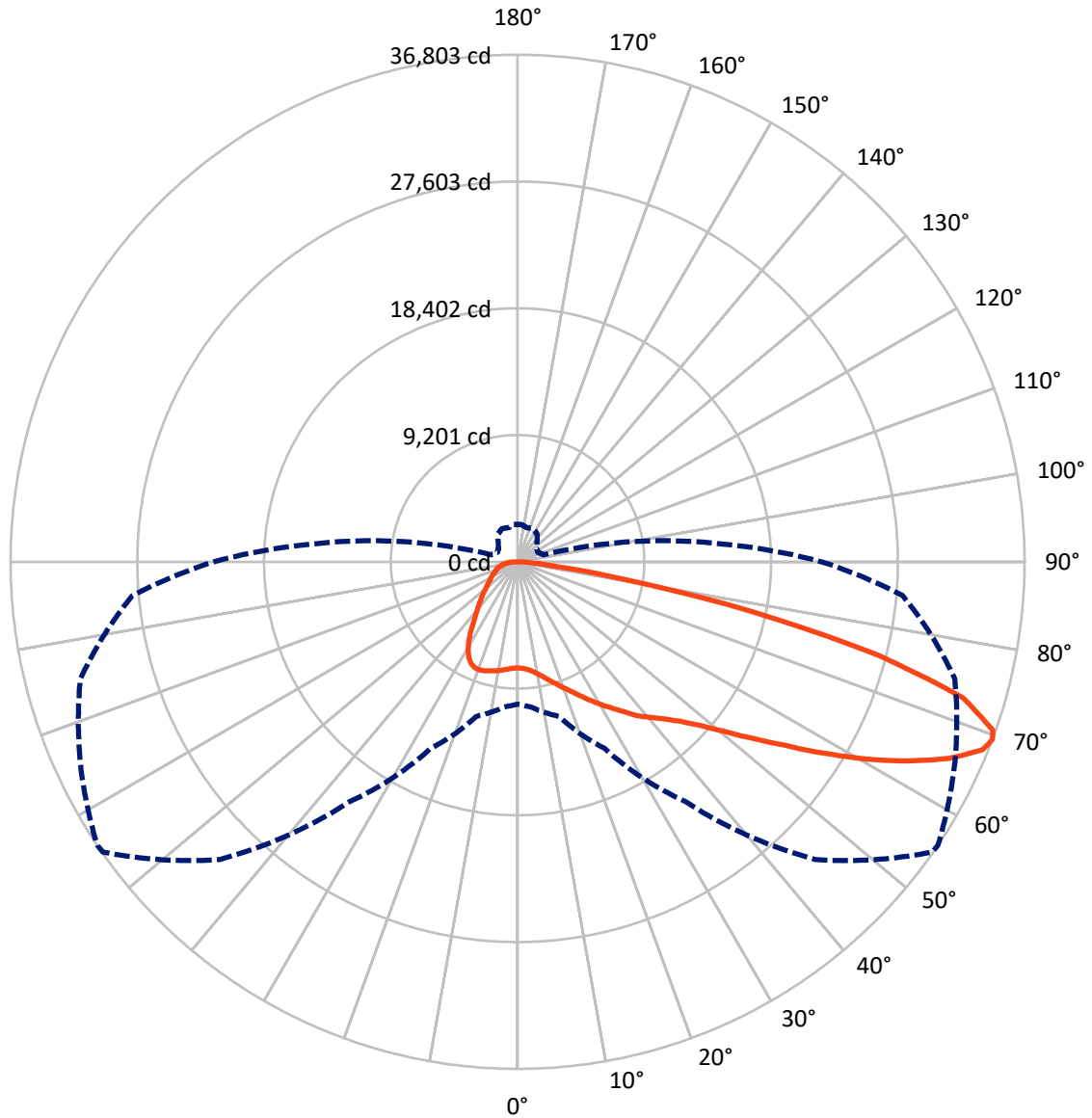
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.4 fc
 Type III - Short - N/A

REPORT NUMBER: P383683
CATALOG NUMBER: GLEON-SA9C-735-U-T3

Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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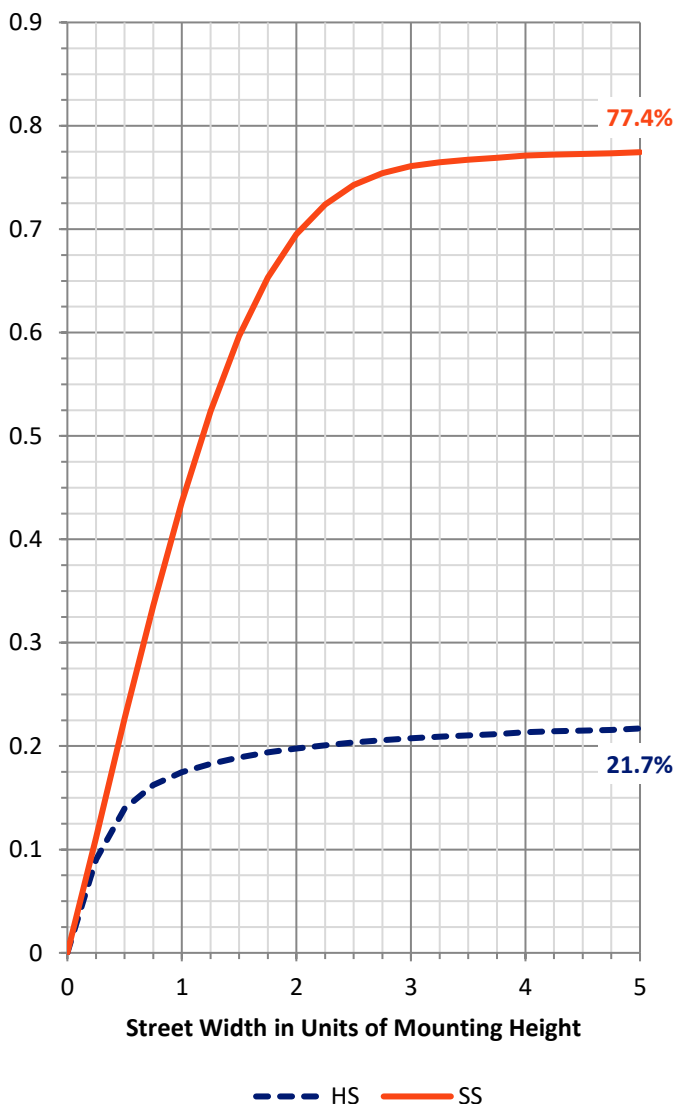
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13120.6	0.0	13120.6
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	45796.0	0.0	45796.0
	% Fixture	77.7	0.0	77.7
Total	Lumens	58916.6	0.0	58916.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	756.5	1.3
10°-20°	2432.6	4.1
20°-30°	4246.4	7.2
30°-40°	6099.8	10.4
40°-50°	8441.8	14.3
50°-60°	12368.4	21.0
60°-70°	15079.5	25.6
70°-80°	8336.9	14.2
80°-90°	1154.7	2.0
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°	58916.6	100.0
0°-180°	58916.6	100.0

Coefficient of Utilization

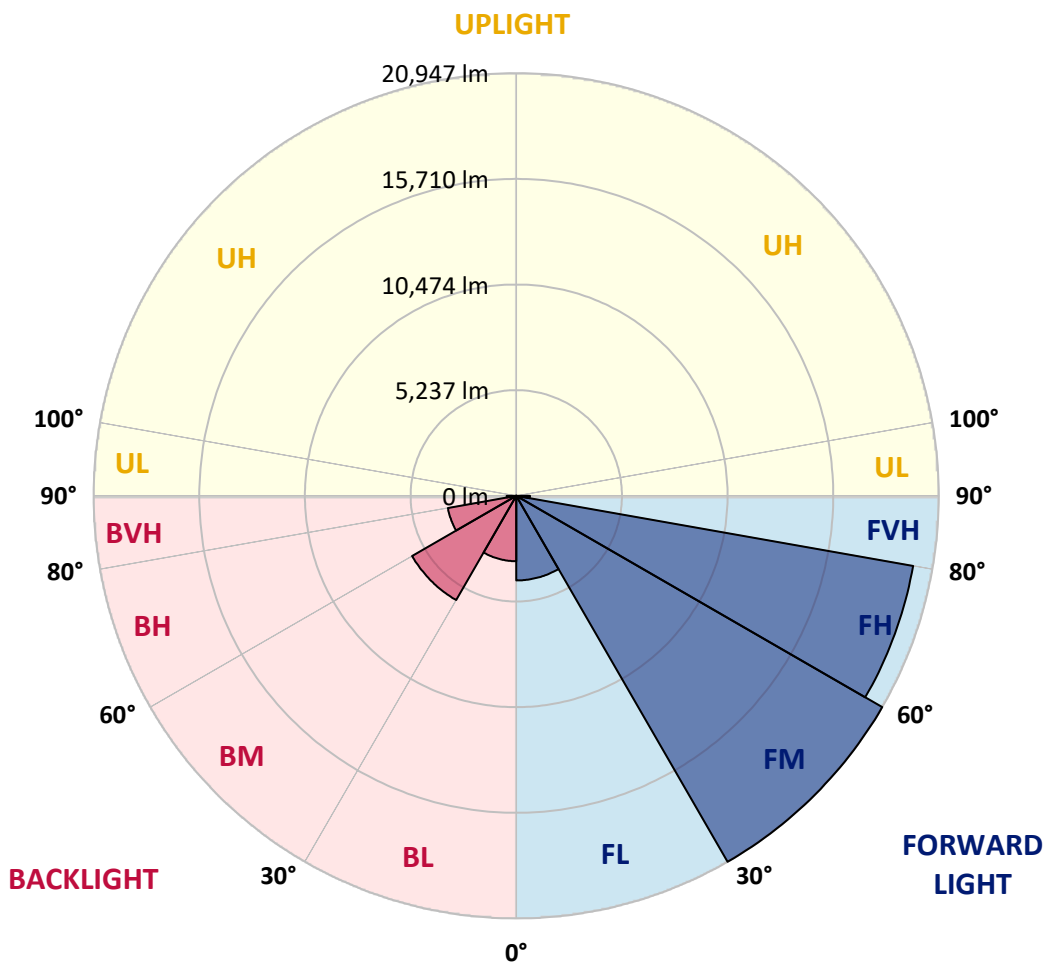


REPORT NUMBER: P383683
 CATALOG NUMBER: GLEON-SA9C-735-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4193.1	7.1			
FM (30°-60°)	20947.1	35.6			
FH (60°-80°)	19975.7	33.9			G5
FVH (80°-90°)	680.1	1.2			G4/750
BL (0°-30°)	3242.4	5.5	B4/5000		
BM (30°-60°)	5963.0	10.1	B4/8500		
BH (60°-80°)	3440.7	5.8	B4/5000		G4/5000
BVH (80°-90°)	474.5	0.8			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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	7702.5	7702.5	7702.5	7702.5	7702.5	7702.5	7702.5	7702.5	7702.5	7702.5	7702.5
2.5°	7751.2	7759.3	7753.2	7769.5	7751.2	7763.3	7753.2	7753.2	7747.1	7728.9	7708.6
5°	7873.0	7889.2	7879.0	7895.2	7873.0	7877.0	7858.7	7858.7	7840.5	7801.9	7761.3
7.5°	8063.8	8082.0	8073.9	8090.1	8059.7	8059.7	8035.3	8033.3	7996.8	7933.8	7887.1
10°	8291.1	8315.5	8307.3	8331.7	8307.3	8315.5	8291.1	8291.1	8242.3	8153.1	8094.2
12.5°	8621.8	8652.3	8630.0	8628.0	8617.8	8634.0	8613.7	8609.7	8565.0	8443.3	8362.1
15°	9064.3	9096.8	9050.2	9046.1	8989.2	8983.2	8983.2	8977.0	8948.6	8802.6	8668.6
17.5°	9573.8	9583.9	9543.3	9478.4	9405.4	9358.6	9352.6	9368.8	9368.8	9198.3	8985.2
20°	10073.1	10091.4	10058.9	9985.8	9892.5	9823.4	9774.7	9807.2	9805.2	9602.2	9299.8
22.5°	10617.0	10659.6	10611.0	10517.5	10408.0	10330.9	10245.6	10274.0	10276.1	10026.4	9608.3
25°	11321.3	11282.7	11252.3	11120.3	10964.1	10884.9	10805.8	10834.2	10826.1	10483.1	9926.9
27.5°	11944.4	11952.5	11911.9	11771.9	11591.2	11416.7	11412.7	11430.9	11400.5	10958.0	10227.4
30°	12669.0	12673.1	12616.2	12490.4	12293.5	12068.2	12015.5	12045.8	11980.9	11408.6	10544.0
32.5°	13389.5	13409.8	13346.8	13194.6	13036.4	12762.4	12656.8	12677.1	12514.7	11869.3	10870.7
35°	14020.7	14049.1	14028.8	13927.4	13754.9	13519.4	13393.6	13381.4	13180.5	12433.6	11303.0
37.5°	14664.1	14690.5	14668.1	14582.9	14513.9	14264.3	14197.3	14197.3	13848.2	13010.0	11853.1
40°	15325.8	15366.3	15340.0	15222.2	15163.5	15049.7	14889.4	14850.8	14473.4	13702.0	12750.2
42.5°	15940.7	15993.6	16099.1	16030.1	15910.3	15926.6	15603.8	15583.6	15307.5	14725.0	13876.6
45°	16813.5	16890.6	17069.2	17016.5	16992.1	16902.8	16519.2	16501.0	16395.4	16101.1	15275.1
47.5°	17765.4	17870.9	18193.7	18203.8	18465.6	18297.2	17775.5	17712.6	17736.9	17749.1	16981.9
50°	18642.2	18757.9	19287.6	19537.3	20154.3	20190.8	19356.6	19299.8	19395.2	19675.3	18971.0
52.5°	19342.5	19488.5	20150.2	20921.4	21978.9	22279.3	21303.1	21260.4	21331.5	21814.5	21219.8
55°	19855.9	20014.2	20734.8	22139.3	23828.0	24357.6	23543.7	23503.1	23547.8	24162.9	23665.6
57.5°	19975.6	20014.2	21059.5	22959.2	25388.7	26661.3	26285.9	26204.6	25985.4	26521.3	26364.9
60°	19413.5	19567.7	20791.6	23247.4	26596.3	28932.5	29151.7	29050.1	28435.2	28873.6	28747.7
62.5°	18272.8	18548.9	19791.0	22809.0	27069.3	30787.6	31962.7	31840.9	30781.4	31065.6	30460.8
65°	16409.6	16527.3	17832.3	21296.9	26468.4	31974.9	34469.3	34408.4	33075.0	32630.4	30777.4
67.5°	13077.0	13298.2	14406.4	18136.9	24010.5	31834.8	36407.6	36401.5	34572.8	33210.9	29655.0
69°	10330.9	10560.2	11615.6	14940.2	21246.2	30554.1	36732.3	36803.4	34995.0	32857.7	28051.6
70°	8236.3	8502.1	9226.7	12583.7	18792.4	28865.5	36462.4	36590.3	34913.8	32275.2	26572.0
72.5°	3505.1	3720.3	4235.8	6486.7	11453.2	21554.7	33338.8	33821.9	33032.3	29539.3	21960.7
75°	1530.3	1597.3	1830.8	2644.6	5084.2	11731.3	26117.3	27010.4	28244.4	24968.5	16358.9
77.5°	1120.4	1148.8	1276.7	1552.7	2281.3	4430.7	16795.2	17314.9	20369.4	18169.3	10034.5
80°	866.6	886.9	986.4	1140.7	1489.7	1792.2	7659.8	8106.3	11453.2	9332.2	4179.0
82.5°	690.1	704.2	773.3	840.3	1029.0	1085.8	2543.1	2821.2	4227.7	2577.6	1106.1
85°	641.4	657.6	682.0	613.0	659.6	637.3	1100.1	1150.8	1276.7	1012.8	462.8
87.5°	290.3	343.0	675.8	477.0	351.1	280.1	450.6	470.9	529.8	531.7	205.0
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°	7702.5	7702.5	7702.5	7702.5	7702.5	7702.5	7702.5	7702.5	7702.5	7702.5	7702.5
2.5°	7720.8	7714.6	7724.8	7700.5	7730.9	7728.9	7718.7	7722.8	7743.0	7741.1	7743.0
5°	7767.4	7763.3	7775.5	7757.3	7793.8	7806.0	7808.0	7826.3	7848.6	7854.7	7854.7
7.5°	7885.2	7885.2	7891.2	7866.8	7891.2	7889.2	7879.0	7897.3	7919.6	7921.7	7919.6
10°	8088.1	8090.1	8080.0	8017.1	7996.8	7942.0	7891.2	7893.3	7921.7	7944.0	7950.1
12.5°	8343.9	8335.7	8291.1	8175.4	8090.1	7978.5	7925.7	7923.7	7952.2	7970.4	7976.5
15°	8636.1	8613.7	8498.0	8309.3	8159.1	8049.5	7964.3	7944.0	7927.7	7907.4	7909.5
17.5°	8912.1	8861.3	8668.6	8406.8	8248.5	8102.3	7937.9	7806.0	7714.6	7661.9	7645.7
20°	9192.2	9092.7	8814.7	8498.0	8297.1	8031.2	7714.6	7446.7	7280.3	7203.2	7188.9
22.5°	9447.9	9287.6	8950.7	8593.4	8258.5	7791.7	7294.5	6904.8	6673.4	6569.9	6578.0
25°	9697.6	9474.3	9092.7	8660.4	8063.8	7369.6	6709.9	6230.9	5963.0	5847.4	5843.3
27.5°	9916.8	9663.1	9247.0	8605.6	7700.5	6768.8	6017.9	5551.1	5327.8	5228.3	5212.1
30°	10168.5	9900.6	9452.0	8396.6	7168.6	6074.7	5342.0	5013.2	4854.9	4755.5	4737.2
32.5°	10475.0	10223.3	9620.5	8017.1	6488.8	5350.2	4814.3	4585.0	4440.9	4329.2	4308.9
35°	10921.5	10649.5	9663.1	7473.2	5741.9	4777.7	4426.6	4191.2	3996.3	3852.2	3838.1
37.5°	11481.6	11183.3	9565.7	6768.8	5017.2	4406.3	4103.9	3813.7	3560.0	3357.0	3324.5
40°	12289.4	11838.9	9295.7	5957.0	4483.4	4120.1	3789.3	3458.5	3143.9	2906.4	2859.8
42.5°	13259.6	12608.1	8881.7	5149.2	4091.7	3830.0	3476.7	3066.7	2766.4	2597.9	2573.6
45°	14493.7	13407.8	8307.3	4442.8	3706.1	3539.7	3139.9	2762.3	2575.6	2451.8	2431.5
47.5°	15902.2	14304.8	7704.5	3868.5	3379.4	3267.7	2869.9	2626.3	2478.2	2380.8	2362.5
50°	17633.5	15317.6	7065.1	3397.6	3050.5	2940.9	2742.0	2551.2	2433.6	2358.4	2340.1
52.5°	19586.0	16460.4	6604.4	3026.2	2778.5	2699.4	2675.0	2510.6	2415.2	2358.4	2340.1
55°	21688.7	17623.3	6107.1	2713.6	2543.1	2565.5	2630.4	2514.7	2449.8	2380.8	2354.4
57.5°	23793.4	18824.9	5553.0	2449.8	2356.4	2466.0	2599.9	2522.8	2468.0	2401.1	2376.7
60°	25457.7	19586.0	4694.5	2228.5	2208.2	2356.4	2526.9	2462.0	2390.9	2393.0	2388.9
62.5°	26235.1	19545.4	3746.7	2031.7	2060.1	2208.2	2409.2	2366.6	2307.7	2386.8	2393.0
65°	25798.7	18571.1	2916.6	1853.0	1901.8	2054.0	2287.4	2319.8	2340.1	2492.4	2512.7
67.5°	23968.0	16675.4	2259.0	1696.8	1757.6	1948.4	2299.6	2526.9	2553.3	2713.6	2711.5
69°	22074.3	14897.5	1962.7	1615.6	1686.7	1974.9	2457.9	2658.8	2559.3	2729.9	2705.5
70°	20487.2	13491.0	1804.3	1560.8	1654.1	2021.6	2563.4	2656.8	2529.0	2675.0	2634.5
72.5°	15778.4	9705.7	1530.3	1459.3	1544.6	1934.3	2593.9	2597.9	2457.9	2486.3	2417.3
75°	10822.0	6133.6	1335.5	1321.3	1378.1	1743.5	2496.5	2482.2	2273.2	2232.6	2175.8
77.5°	5967.1	3115.5	1134.5	1189.4	1228.0	1544.6	2269.2	2248.8	2076.3	1991.1	1970.8
80°	2301.6	1363.9	958.0	1057.4	1081.8	1337.5	1989.0	1970.8	1826.7	1717.0	1686.7
82.5°	868.7	714.4	791.5	915.3	907.2	1104.2	1684.6	1674.5	1534.4	1374.0	1325.3
85°	401.9	428.2	627.1	755.0	696.1	817.9	1347.7	1365.9	1195.5	1004.7	1004.7
87.5°	170.5	239.5	444.5	570.3	468.8	552.0	988.5	943.8	866.6	600.8	564.2
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)