

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: P382675

Luminaire Tested: **GLEON-SA0C-735-U-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P382675
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-SA0C-735-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 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: 65230.7 lumens
Efficiency: N/A
Efficacy: 116.9 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G5

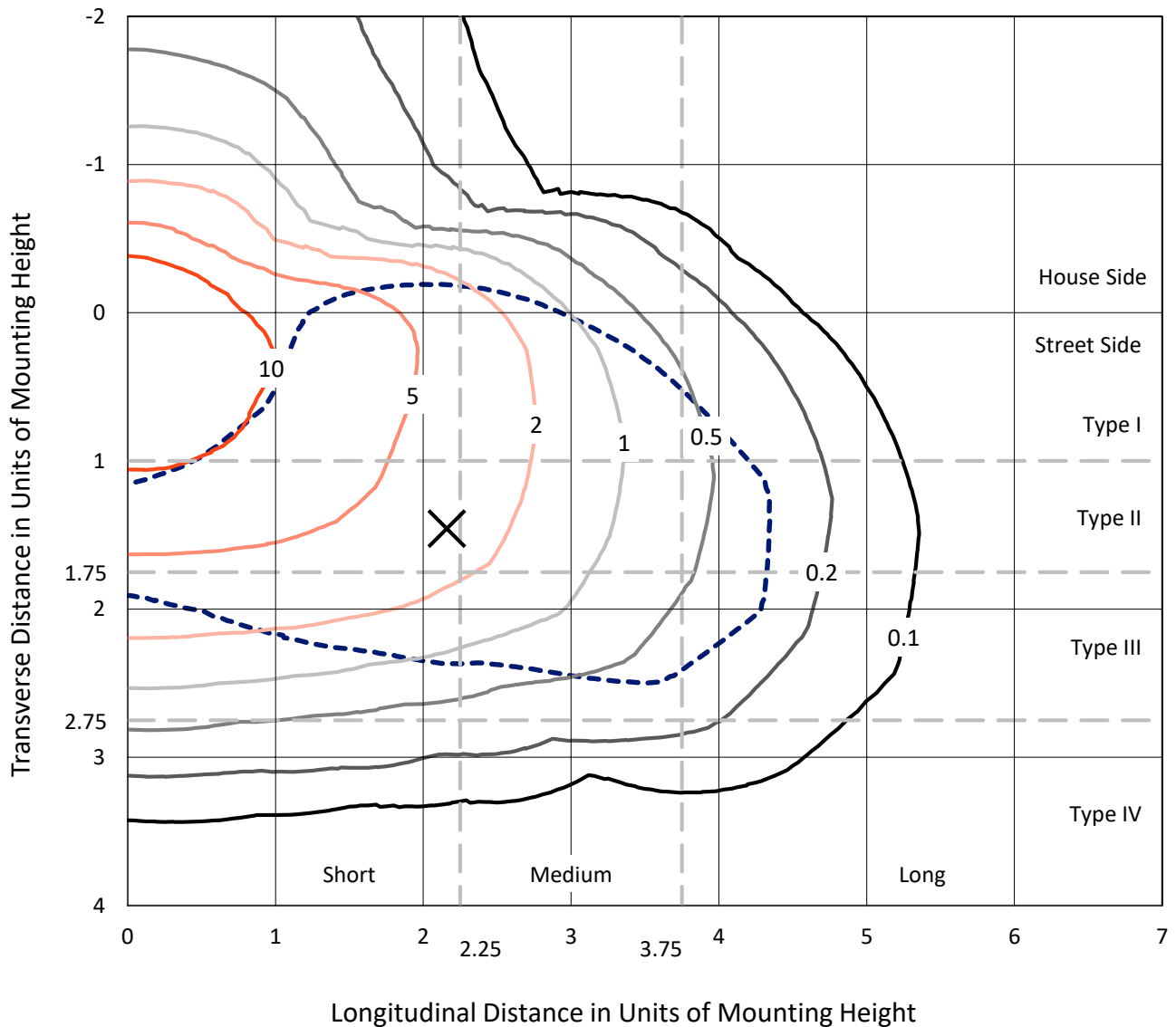
Input Watts (W): 558
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

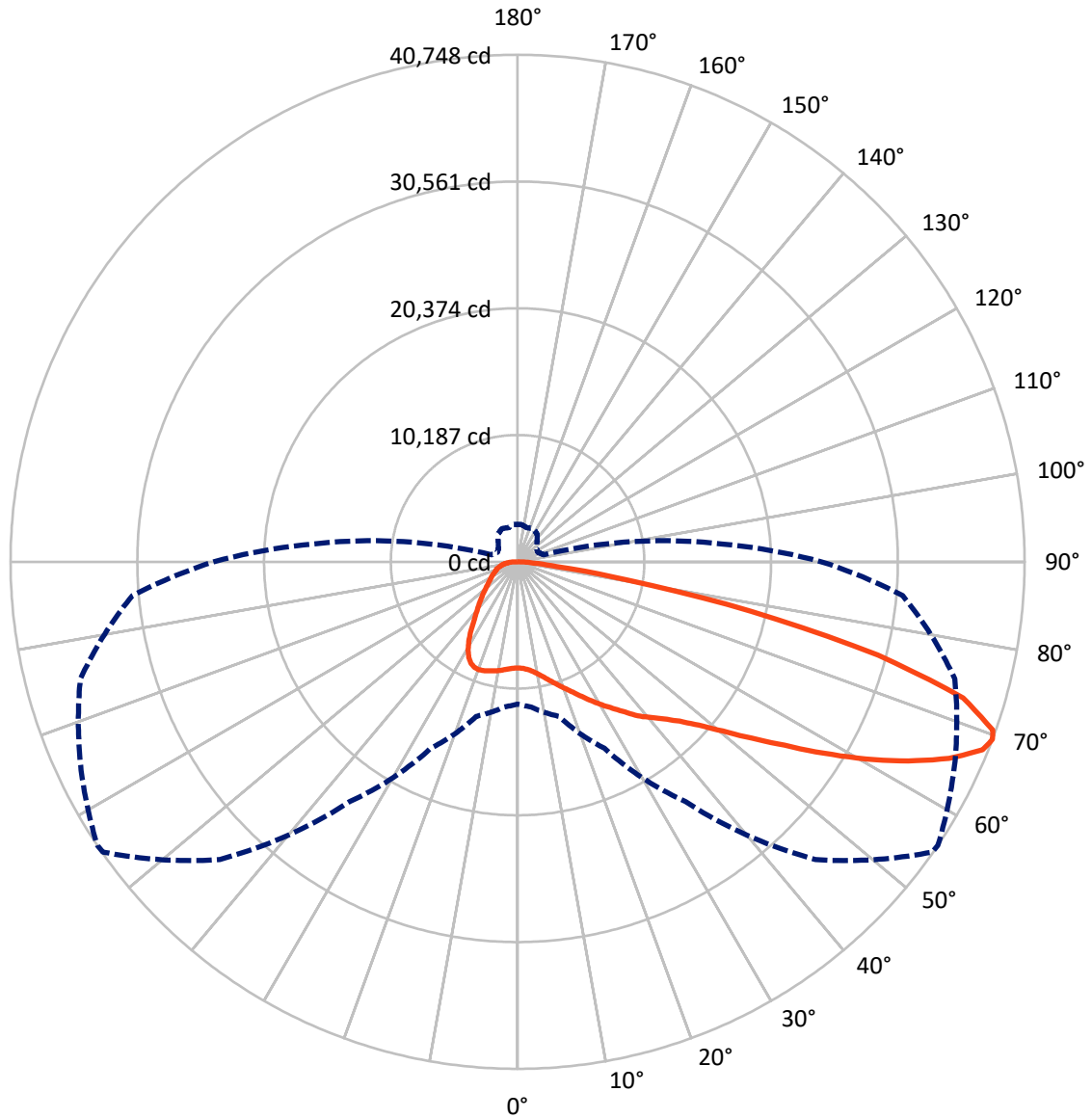
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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

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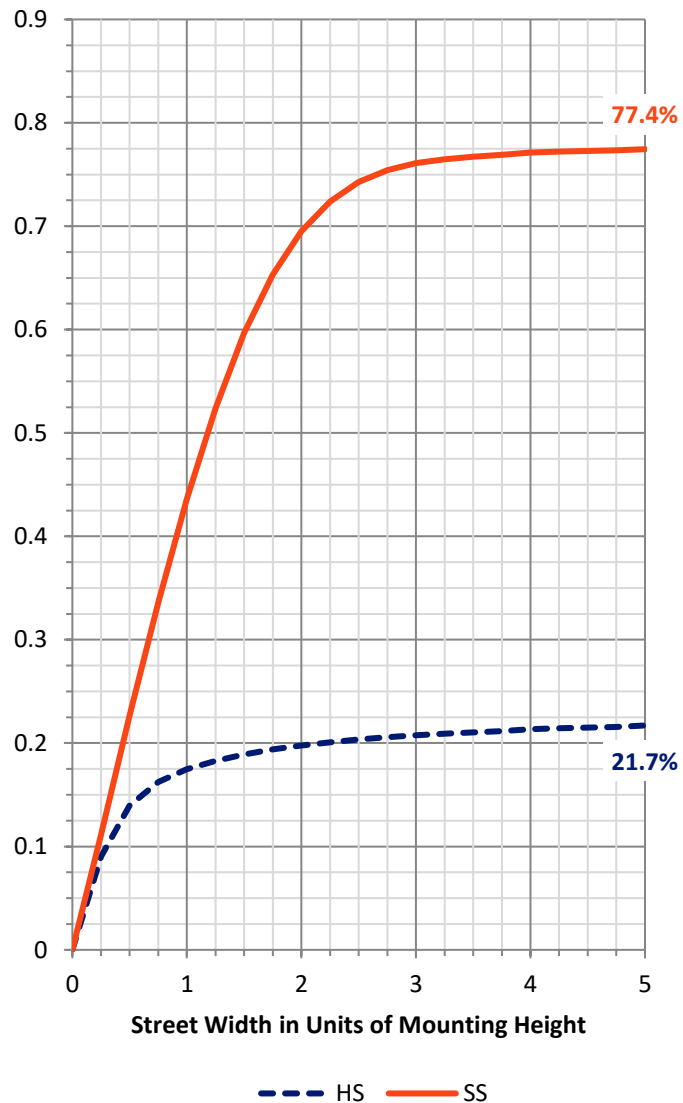
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14526.8	0.0	14526.8
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	50703.9	0.0	50703.9
	% Fixture	77.7	0.0	77.7
Total	Lumens	65230.7	0.0	65230.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	837.6	1.3
10°-20°	2693.3	4.1
20°-30°	4701.5	7.2
30°-40°	6753.5	10.4
40°-50°	9346.5	14.3
50°-60°	13694.0	21.0
60°-70°	16695.5	25.6
70°-80°	9230.4	14.2
80°-90°	1278.4	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°	65230.7	100.0
0°-180°	65230.7	100.0

Coefficient of Utilization



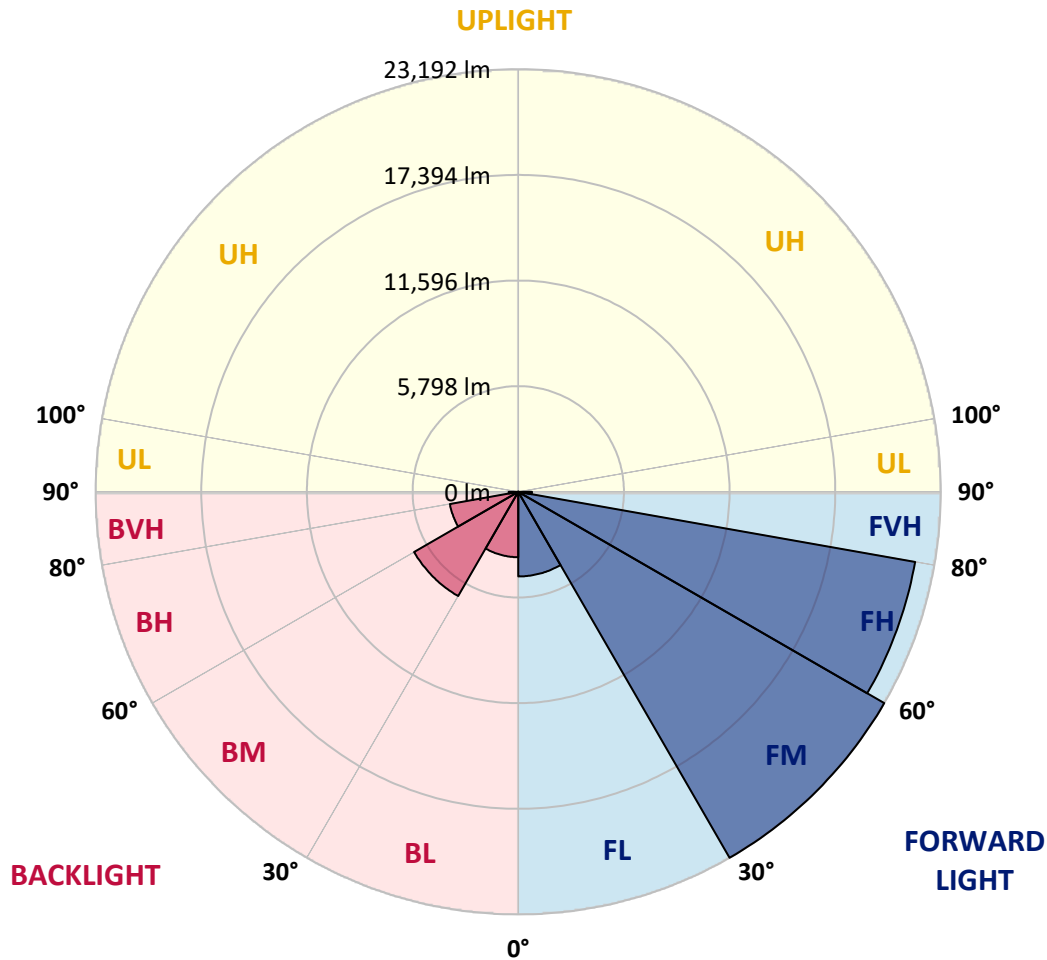
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4642.5	7.1			
FM (30°-60°)	23191.9	35.6			
FH (60°-80°)	22116.5	33.9			G5
FVH (80°-90°)	753.0	1.2			G5
BL (0°-30°)	3589.9	5.5	B4/5000		
BM (30°-60°)	6602.1	10.1	B4/8500		
BH (60°-80°)	3809.4	5.8	B4/5000		G4/5000
BVH (80°-90°)	525.4	0.8			G4/750
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°	8527.9	8527.9	8527.9	8527.9	8527.9	8527.9	8527.9	8527.9	8527.9	8527.9	8527.9
2.5°	8581.9	8590.8	8584.1	8602.1	8581.9	8595.4	8584.1	8584.1	8577.4	8557.1	8534.7
5°	8716.7	8734.7	8723.5	8741.5	8716.7	8721.1	8700.9	8700.9	8680.7	8638.1	8593.1
7.5°	8928.0	8948.2	8939.1	8957.1	8923.4	8923.4	8896.5	8894.2	8853.8	8784.1	8732.4
10°	9179.6	9206.6	9197.5	9224.6	9197.5	9206.6	9179.6	9179.6	9125.6	9026.8	8961.7
12.5°	9545.8	9579.6	9554.9	9552.6	9541.4	9559.4	9536.9	9532.4	9483.0	9348.2	9258.3
15°	10035.7	10071.7	10020.0	10015.5	9952.7	9945.9	9945.9	9939.1	9907.7	9745.9	9597.5
17.5°	10599.8	10611.1	10566.1	10494.2	10413.3	10361.6	10354.9	10372.9	10372.9	10184.1	9948.1
20°	11152.6	11172.8	11136.8	11056.0	10952.6	10876.2	10822.3	10858.2	10856.0	10631.3	10296.4
22.5°	11754.8	11802.1	11748.1	11644.7	11523.3	11438.0	11343.6	11375.0	11377.3	11100.9	10638.0
25°	12534.6	12491.9	12458.2	12312.2	12139.1	12051.4	11963.9	11995.3	11986.3	11606.5	10990.8
27.5°	13224.4	13233.5	13188.5	13033.5	12833.5	12640.2	12635.7	12655.9	12622.2	12132.4	11323.4
30°	14026.7	14031.2	13968.3	13828.9	13611.0	13361.6	13303.2	13336.9	13265.0	12631.2	11674.0
32.5°	14824.5	14846.9	14777.2	14608.7	14433.4	14130.1	14013.2	14035.7	13855.9	13141.3	12035.7
35°	15523.3	15554.8	15532.3	15419.9	15228.9	14968.3	14828.9	14815.4	14593.0	13766.0	12514.4
37.5°	16235.7	16264.8	16240.1	16145.8	16069.4	15793.0	15718.8	15718.8	15332.3	14404.2	13123.4
40°	16968.2	17013.1	16984.0	16853.7	16788.4	16662.6	16485.1	16442.4	16024.4	15170.5	14116.6
42.5°	17649.1	17707.5	17824.4	17747.9	17615.4	17633.4	17276.1	17253.6	16948.0	16303.1	15363.7
45°	18615.4	18700.8	18898.5	18840.1	18813.2	18714.2	18289.5	18269.3	18152.5	17826.7	16912.1
47.5°	19669.3	19786.2	20143.4	20154.7	20444.6	20258.1	19680.5	19610.8	19637.9	19651.3	18801.9
50°	20640.0	20768.1	21354.7	21631.1	22314.2	22354.6	21431.1	21368.1	21473.8	21783.9	21004.1
52.5°	21415.3	21577.2	22309.7	23163.6	24334.4	24666.9	23586.0	23538.9	23617.5	24152.3	23493.9
55°	21983.9	22159.1	22956.9	24511.9	26381.5	26968.0	26066.9	26021.9	26071.4	26752.3	26201.7
57.5°	22116.4	22159.1	23316.5	25419.8	28109.5	29518.5	29102.9	29013.0	28770.3	29363.5	29190.5
60°	21494.0	21664.7	23019.8	25738.8	29446.7	32033.1	32275.8	32163.5	31482.6	31967.9	31828.7
62.5°	20231.1	20536.7	21912.0	25253.4	29970.2	34087.0	35388.1	35253.3	34080.3	34394.9	33725.2
65°	18168.2	18298.6	19743.4	23579.3	29305.1	35401.6	38163.4	38095.9	36619.5	36127.4	34075.7
67.5°	14478.4	14723.3	15950.2	20080.5	26583.8	35246.5	40309.4	40302.7	38277.9	36770.1	32833.1
69°	11438.0	11691.9	12860.5	16541.3	23523.2	33828.6	40668.9	40747.6	38745.3	36379.1	31057.9
70°	9118.9	9413.3	10215.5	13932.3	20806.4	31959.0	40370.0	40511.6	38655.5	35734.2	29419.7
72.5°	3880.8	4119.0	4689.8	7181.9	12680.7	23864.8	36911.6	37446.5	36572.4	32705.1	24314.1
75°	1694.4	1768.5	2027.0	2928.0	5629.1	12988.5	28916.4	29905.1	31271.3	27644.4	18112.0
77.5°	1240.4	1271.8	1413.4	1719.1	2525.8	4905.5	18595.2	19170.4	22552.4	20116.5	11109.9
80°	959.5	982.0	1092.1	1262.9	1649.4	1984.2	8480.7	8975.1	12680.7	10332.4	4626.9
82.5°	764.1	779.8	856.2	930.3	1139.3	1202.3	2815.7	3123.6	4680.8	2853.9	1224.7
85°	710.1	728.1	755.0	678.6	730.3	705.6	1218.0	1274.2	1413.4	1121.3	512.4
87.5°	321.4	379.8	748.3	528.1	388.7	310.1	498.8	521.3	586.5	588.7	226.9
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°	8527.9	8527.9	8527.9	8527.9	8527.9	8527.9	8527.9	8527.9	8527.9	8527.9	8527.9
2.5°	8548.2	8541.5	8552.6	8525.7	8559.4	8557.1	8545.9	8550.4	8572.8	8570.6	8572.8
5°	8599.9	8595.4	8608.8	8588.6	8629.0	8642.5	8644.8	8665.0	8689.8	8696.5	8696.5
7.5°	8730.2	8730.2	8736.9	8710.0	8736.9	8734.7	8723.5	8743.7	8768.4	8770.6	8768.4
10°	8954.9	8957.1	8945.9	8876.3	8853.8	8793.1	8736.9	8739.1	8770.6	8795.3	8802.1
12.5°	9238.1	9229.0	9179.6	9051.5	8957.1	8833.6	8775.1	8772.8	8804.3	8824.6	8831.3
15°	9561.6	9536.9	9408.8	9199.9	9033.5	8912.2	8817.8	8795.3	8777.3	8754.9	8757.1
17.5°	9867.2	9811.1	9597.5	9307.7	9132.4	8970.6	8788.6	8642.5	8541.5	8483.0	8465.0
20°	10177.3	10067.2	9759.4	9408.8	9186.4	8892.0	8541.5	8244.8	8060.5	7975.2	7959.4
22.5°	10460.4	10283.0	9909.9	9514.5	9143.6	8626.8	8076.2	7644.8	7388.7	7274.0	7283.0
25°	10736.9	10489.7	10067.2	9588.6	8928.0	8159.4	7429.1	6898.8	6602.2	6474.1	6469.5
27.5°	10979.6	10698.6	10238.0	9527.9	8525.7	7494.2	6662.8	6146.0	5898.7	5788.6	5770.7
30°	11258.2	10961.6	10465.0	9296.5	7937.0	6725.7	5914.5	5550.4	5375.2	5265.1	5244.9
32.5°	11597.6	11318.9	10651.5	8876.3	7184.1	5923.5	5330.2	5076.3	4916.8	4793.2	4770.7
35°	12092.0	11790.8	10698.6	8274.0	6357.2	5289.8	4901.1	4640.3	4424.7	4265.1	4249.3
37.5°	12712.1	12381.8	10590.9	7494.2	5554.9	4878.5	4543.7	4222.4	3941.5	3716.8	3680.8
40°	13606.5	13107.6	10291.9	6595.4	4963.9	4561.7	4195.4	3829.1	3480.8	3217.9	3166.2
42.5°	14680.6	13959.3	9833.5	5701.0	4530.2	4240.4	3849.3	3395.4	3062.8	2876.3	2849.4
45°	16046.9	14844.7	9197.5	4919.0	4103.3	3919.0	3476.3	3058.4	2851.7	2714.5	2692.1
47.5°	17606.4	15837.9	8530.2	4283.1	3741.5	3617.9	3177.5	2907.8	2743.8	2635.9	2615.7
50°	19523.2	16959.2	7822.3	3761.7	3377.4	3256.1	3035.9	2824.6	2694.3	2611.2	2591.0
52.5°	21685.0	18224.4	7312.2	3350.5	3076.3	2988.7	2961.8	2779.7	2674.1	2611.2	2591.0
55°	24013.1	19512.0	6761.6	3004.4	2815.7	2840.4	2912.3	2784.2	2712.3	2635.9	2606.7
57.5°	26343.3	20842.4	6148.2	2712.3	2609.0	2730.3	2878.6	2793.2	2732.5	2658.4	2631.4
60°	28186.0	21685.0	5197.7	2467.4	2444.9	2609.0	2797.7	2725.8	2647.2	2649.4	2644.8
62.5°	29046.7	21640.0	4148.3	2249.4	2280.9	2444.9	2667.4	2620.2	2555.0	2642.6	2649.4
65°	28563.5	20561.4	3229.1	2051.6	2105.6	2274.1	2532.5	2568.5	2591.0	2759.5	2782.0
67.5°	26536.6	18462.6	2501.1	1878.7	1946.0	2157.3	2546.0	2797.7	2826.9	3004.4	3002.2
69°	24440.0	16494.1	2173.0	1788.8	1867.4	2186.4	2721.3	2943.8	2833.7	3022.4	2995.5
70°	22682.7	14936.8	1997.7	1728.0	1831.4	2238.1	2838.1	2941.5	2800.0	2961.8	2916.8
72.5°	17469.3	10745.9	1694.4	1615.7	1710.0	2141.5	2871.9	2876.3	2721.3	2752.7	2676.3
75°	11981.8	6790.9	1478.6	1462.9	1525.8	1930.3	2764.0	2748.3	2516.8	2471.9	2409.0
77.5°	6606.6	3449.3	1256.2	1316.8	1359.5	1710.0	2512.3	2489.8	2298.9	2204.4	2182.0
80°	2548.2	1510.0	1060.7	1170.8	1197.7	1480.9	2202.2	2182.0	2022.4	1901.1	1867.4
82.5°	961.8	791.0	876.4	1013.4	1004.5	1222.5	1865.1	1853.9	1698.9	1521.3	1467.4
85°	444.9	474.2	694.4	836.0	770.8	905.6	1492.2	1512.4	1323.5	1112.4	1112.4
87.5°	188.7	265.1	492.1	631.4	519.1	611.2	1094.4	1044.9	959.5	665.1	624.7
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)