

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: P383485

Luminaire Tested: **GLEON-SA7D-735-U-T2R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383485
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-SA7D-735-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 53262.2 lumens
Efficiency: N/A
Efficacy: 118.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G5

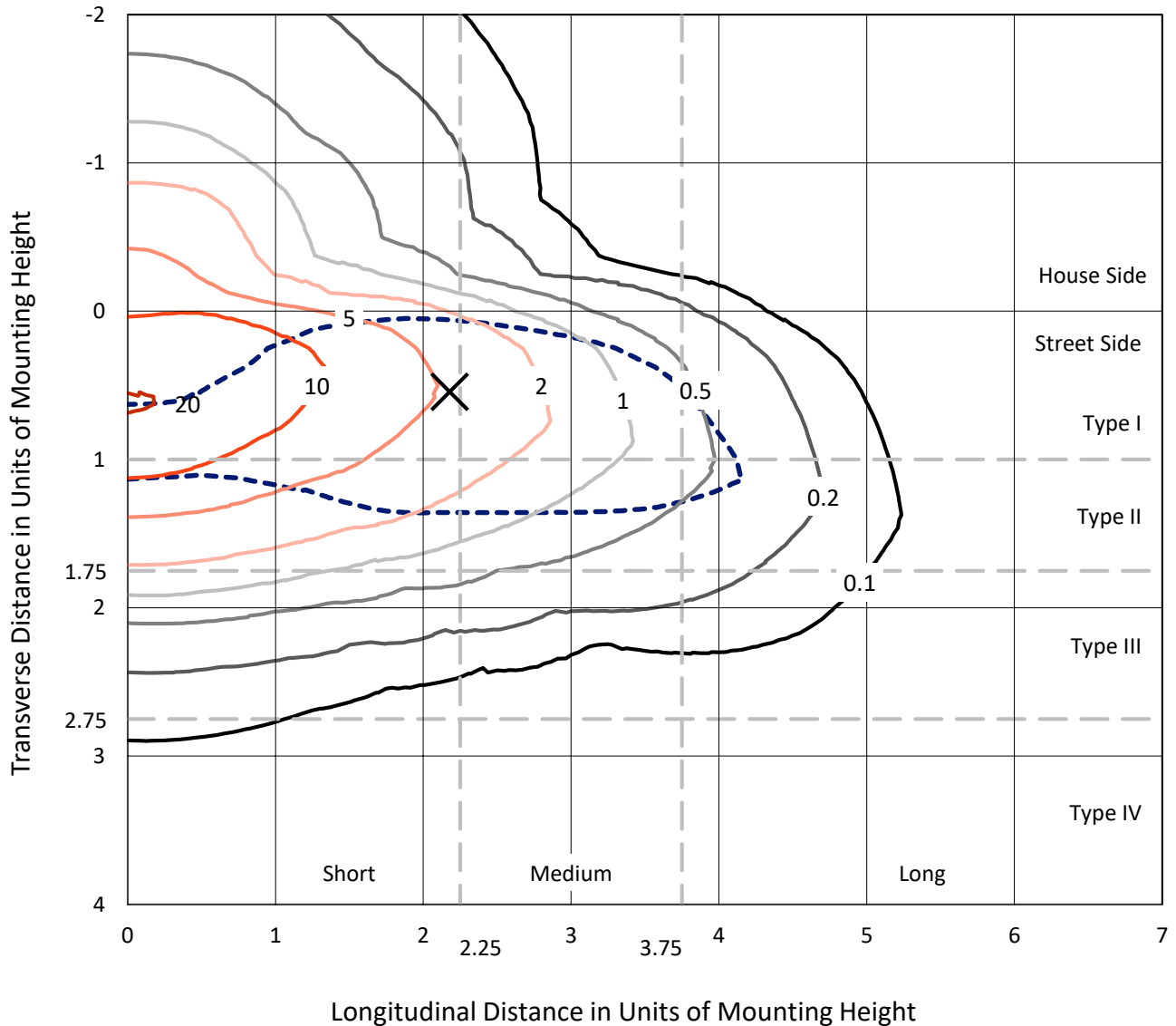
Input Watts (W): 448
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

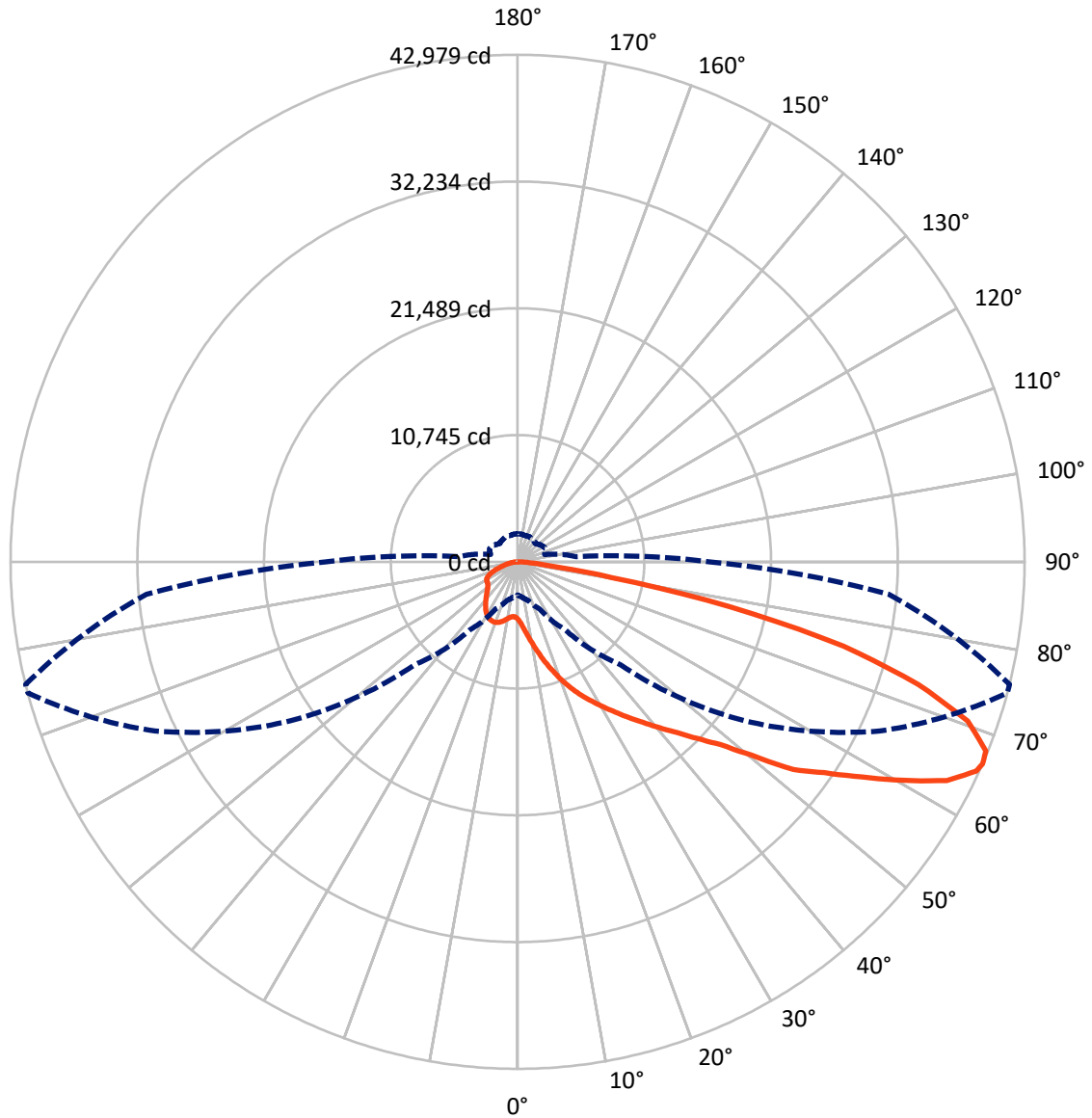
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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

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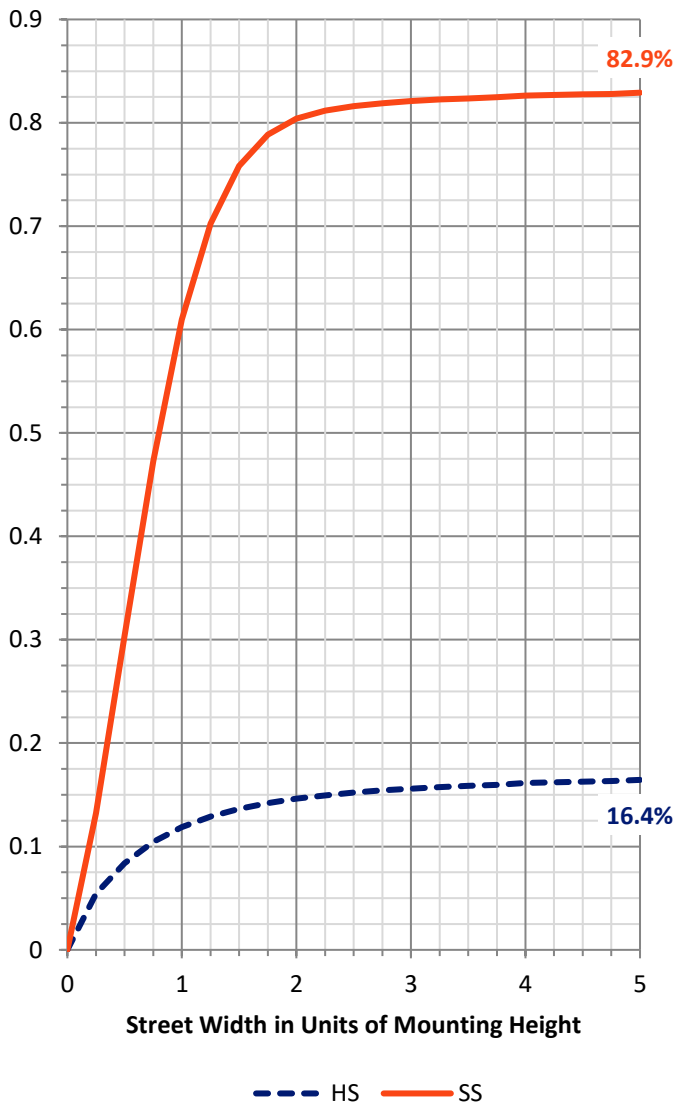
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8962.2	0.0	8962.2
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	44300.0	0.0	44300.0
	% Fixture	83.2	0.0	83.2
Total	Lumens	53262.2	0.0	53262.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	588.2	1.1
10°-20°	2322.7	4.4
20°-30°	4513.6	8.5
30°-40°	7367.3	13.8
40°-50°	10065.5	18.9
50°-60°	11724.3	22.0
60°-70°	10511.0	19.7
70°-80°	5311.8	10.0
80°-90°	857.8	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°	53262.2	100.0
0°-180°	53262.2	100.0

Coefficient of Utilization

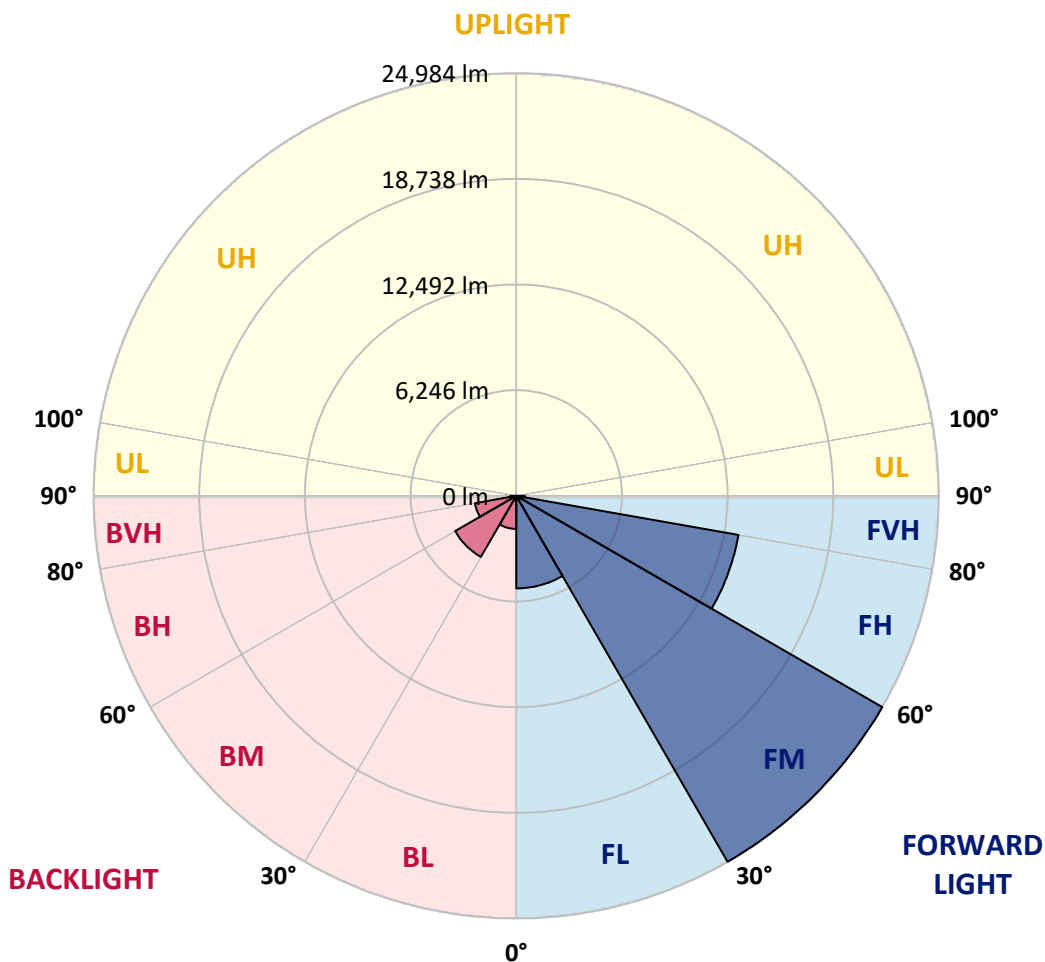


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5469.9	10.3			
FM (30°-60°)	24983.6	46.9			
FH (60°-80°)	13339.9	25.0			G5
FVH (80°-90°)	506.6	1.0			G4/750
BL (0°-30°)	1954.7	3.7	B3/2500		
BM (30°-60°)	4173.3	7.8	B3/5000		
BH (60°-80°)	2482.9	4.7	B3/2500		G3/2500
BVH (80°-90°)	351.2	0.7			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	4864.1	4864.1	4864.1	4864.1	4864.1	4864.1	4864.1	4864.1	4864.1	4864.1	4864.1
2.5°	6457.0	6359.4	6350.4	6207.6	6174.9	5901.9	5701.3	5491.5	5252.8	5205.8	5017.7
5°	8294.2	8285.1	8160.4	7927.1	7744.5	7278.0	6816.9	6328.7	5793.5	5706.7	5283.6
7.5°	9946.9	9932.4	9836.6	9585.3	9321.3	8748.1	8089.8	7341.2	6473.3	6345.0	5643.4
10°	11201.8	11196.4	11163.8	10979.3	10755.1	10205.5	9478.6	8456.9	7263.5	7088.1	6093.6
12.5°	12170.9	12181.8	12203.5	12138.4	12031.7	11563.4	10818.4	9639.5	8106.1	7932.5	6594.5
15°	12827.3	12859.8	12972.0	13064.2	13120.3	12832.7	12111.2	10849.2	9050.0	8842.1	7149.6
17.5°	13158.2	13194.3	13387.8	13666.4	13923.1	13894.1	13320.9	12002.8	9955.9	9755.2	7746.3
20°	13443.9	13471.0	13688.0	14022.5	14476.3	14677.1	14355.2	13113.0	10948.6	10709.9	8379.2
22.5°	14272.1	14306.4	14371.5	14561.4	14962.8	15331.7	15176.1	14163.5	11858.1	11635.7	8979.5
25°	15870.5	15912.1	15771.0	15610.1	15686.1	15942.8	15971.8	15121.9	12780.3	12528.9	9625.0
27.5°	17796.2	17855.9	17615.4	17201.3	16839.7	16740.3	16705.9	15906.6	13660.9	13369.8	10263.3
30°	19682.2	19785.2	19472.4	18935.4	18271.7	17805.2	17459.9	16675.2	14528.8	14250.3	10865.4
32.5°	21524.7	21483.2	21029.3	20504.9	19727.4	19143.3	18308.0	17499.7	15505.2	15185.2	11463.9
35°	22786.9	22801.3	22380.0	21758.0	21016.6	20568.2	19443.4	18389.3	16501.5	16206.8	12143.8
37.5°	23860.9	23794.0	23316.6	22736.2	22097.9	21906.3	20772.5	19369.4	17581.1	17259.2	12867.1
40°	24218.9	24141.1	23828.3	23410.6	22898.9	22882.6	22238.9	20479.6	18801.6	18483.3	13682.6
42.5°	24002.0	23902.5	23774.1	23660.2	23502.9	23575.2	23616.8	21781.4	20143.2	19787.0	14626.5
45°	23200.9	23050.9	23141.2	23388.9	23730.7	24139.4	24860.9	23222.6	21645.9	21347.5	15734.9
47.5°	21969.5	21833.9	22116.0	22645.8	23575.2	24609.5	26038.0	24813.8	23439.6	23143.1	17313.5
50°	20237.3	20277.1	20680.3	21644.0	23049.0	24826.5	27488.1	26920.3	26047.0	25770.3	19467.0
52.5°	17394.8	17402.1	18537.6	20119.8	22116.0	24714.3	28292.8	29612.8	29607.4	29272.9	21517.4
55°	14754.9	14915.8	15814.4	17917.4	20604.3	24266.0	28855.2	30921.9	31945.4	31552.9	23428.7
57.5°	12176.4	12270.4	13122.1	15234.1	18447.2	23070.7	29432.0	32493.2	34639.5	34391.8	25804.7
60°	9243.5	9388.1	10268.7	12219.8	15687.9	20949.8	29486.2	34133.2	37860.0	37610.4	28457.3
62.5°	5999.5	6249.1	7073.6	8901.8	12350.0	17899.3	28227.7	35205.5	40912.2	40823.6	30811.6
65°	3448.2	3636.3	4209.5	5619.8	8520.2	14069.5	25235.2	34793.2	42790.8	42740.2	31692.2
66°	2817.2	2934.7	3374.1	4392.1	7030.3	12355.4	23495.7	33923.5	42977.1	42978.9	31590.9
67.5°	2253.0	2305.5	2502.5	3144.4	5187.7	9793.2	20387.4	32005.0	42745.6	42809.0	30938.2
70°	1864.2	1891.4	1952.8	2108.4	2831.6	5905.5	14470.9	27019.8	40422.2	40471.0	28390.4
72.5°	1672.6	1688.9	1712.4	1734.1	1998.1	3299.9	8838.4	21615.2	35440.5	35503.9	24508.3
75°	1515.3	1524.3	1520.7	1522.5	1676.2	2103.0	4567.5	16138.1	28656.3	28529.7	18774.5
77.5°	1330.8	1339.8	1321.8	1325.4	1482.7	1616.5	2272.9	11297.6	19338.6	18445.4	10577.9
80°	1124.7	1131.9	1124.7	1137.3	1291.0	1220.5	1321.8	6355.8	8551.0	8088.1	3761.0
82.5°	849.9	880.6	902.3	952.9	1063.2	867.9	884.2	2475.4	2603.8	2479.0	1153.6
85°	372.5	453.8	679.8	728.7	799.2	520.7	580.4	1009.0	1059.6	1027.0	419.5
87.5°	97.6	106.7	336.3	423.1	443.0	235.0	302.0	459.3	484.6	459.3	139.3
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°	4864.1	4864.1	4864.1	4864.1	4864.1	4864.1	4864.1	4864.1	4864.1	4864.1	4864.1
2.5°	4918.3	4829.7	4670.6	4529.6	4422.8	4350.5	4278.2	4242.0	4220.3	4198.6	4202.2
5°	5075.6	4896.6	4623.6	4430.1	4321.5	4252.9	4216.7	4202.2	4193.2	4171.5	4171.5
7.5°	5312.4	5059.3	4683.3	4484.3	4399.3	4346.9	4325.2	4318.0	4307.1	4281.8	4285.4
10°	5610.8	5256.4	4808.0	4614.5	4536.7	4478.9	4448.1	4437.3	4417.4	4388.5	4392.1
12.5°	5961.6	5500.5	4972.5	4770.0	4676.0	4598.2	4547.6	4516.9	4482.5	4444.5	4446.4
15°	6345.0	5766.3	5149.7	4909.3	4780.9	4672.4	4591.0	4538.6	4484.3	4437.3	4435.5
17.5°	6733.7	6023.1	5285.3	4985.2	4811.6	4668.7	4558.4	4477.1	4410.2	4352.3	4346.9
20°	7153.2	6254.5	5361.3	4977.9	4753.8	4583.8	4437.3	4336.1	4261.9	4204.1	4195.0
22.5°	7579.9	6471.6	5373.9	4903.9	4625.3	4417.4	4263.7	4151.6	4075.7	4016.0	3994.3
25°	7970.5	6639.7	5321.5	4761.0	4446.4	4222.1	4072.1	3958.1	3896.7	3826.1	3804.4
27.5°	8326.7	6757.3	5216.7	4578.4	4245.6	4025.0	3884.0	3786.4	3719.5	3665.2	3647.1
30°	8646.8	6820.5	5044.9	4361.3	4039.5	3838.8	3719.5	3652.5	3594.7	3526.0	3513.3
32.5°	8950.6	6820.5	4824.3	4124.5	3835.2	3674.2	3603.7	3562.1	3497.0	3430.1	3412.1
35°	9254.4	6778.9	4563.8	3876.7	3647.1	3556.7	3553.1	3504.3	3404.8	3314.4	3290.9
37.5°	9574.4	6693.9	4271.0	3645.3	3493.4	3504.3	3535.0	3426.5	3285.5	3157.1	3122.7
40°	9936.0	6576.4	3967.2	3444.6	3365.0	3480.7	3486.2	3314.4	3039.5	2922.1	2891.3
42.5°	10361.0	6458.9	3685.1	3267.4	3263.8	3410.2	3394.0	3072.2	2907.5	2847.9	2831.6
45°	10919.7	6392.0	3417.5	3099.3	3184.2	3296.4	3236.7	2938.3	2869.6	2835.3	2820.8
47.5°	11800.3	6426.3	3171.5	2965.4	3104.7	3182.4	2943.7	2884.1	2835.3	2793.6	2779.2
50°	12903.2	6406.4	2972.7	2873.2	3014.3	3063.1	2811.8	2813.6	2788.2	2741.3	2719.6
52.5°	13733.2	6251.0	2844.3	2820.8	2934.7	2851.6	2728.6	2744.8	2732.1	2663.5	2640.0
55°	14534.3	6117.1	2779.2	2800.9	2876.8	2587.6	2630.9	2670.7	2658.1	2591.1	2580.3
57.5°	15530.6	6091.8	2739.4	2806.3	2828.0	2455.6	2536.9	2589.3	2580.3	2551.3	2545.9
60°	16751.1	6099.0	2703.3	2815.3	2773.8	2357.8	2448.3	2515.2	2520.6	2515.2	2511.5
62.5°	17421.9	5901.9	2612.8	2790.1	2677.9	2272.9	2356.1	2453.7	2455.6	2466.4	2464.6
65°	16852.3	5312.4	2444.7	2701.4	2517.0	2202.4	2276.5	2383.2	2356.1	2404.9	2404.9
66°	16299.0	4972.5	2361.5	2643.5	2448.3	2175.3	2251.2	2347.0	2312.7	2379.5	2379.5
67.5°	15168.9	4399.3	2211.4	2520.6	2350.7	2137.2	2222.3	2287.3	2240.4	2339.8	2332.6
70°	13104.0	3403.0	1909.5	2242.1	2189.7	2081.3	2182.5	2168.0	2099.3	2251.2	2222.3
72.5°	11048.1	2585.7	1533.3	1876.9	1945.6	2010.7	2126.4	2016.1	1929.3	2036.0	1972.7
75°	8572.7	1943.8	1211.5	1459.2	1643.6	1900.5	2059.6	1840.7	1716.0	1705.1	1670.7
77.5°	4634.4	1334.4	960.1	1113.9	1305.5	1763.0	2014.3	1652.7	1464.7	1421.3	1394.2
80°	1835.3	867.9	698.0	844.4	913.1	1564.1	1905.9	1433.9	1207.8	1164.4	1122.9
82.5°	757.6	513.6	450.2	566.0	594.9	1338.1	1710.5	1175.3	933.0	1291.0	1370.6
85°	325.5	282.1	267.6	293.0	336.3	938.4	1361.5	896.9	1007.2	898.7	714.2
87.5°	97.6	119.3	113.9	112.1	123.0	224.2	725.1	499.0	739.6	280.3	209.8
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)