

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: P319169

Luminaire Tested: **GLEON-SA5C-827-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319169
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-18)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA5C-827-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25806 lumens
Efficiency: N/A
Efficacy: 92.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

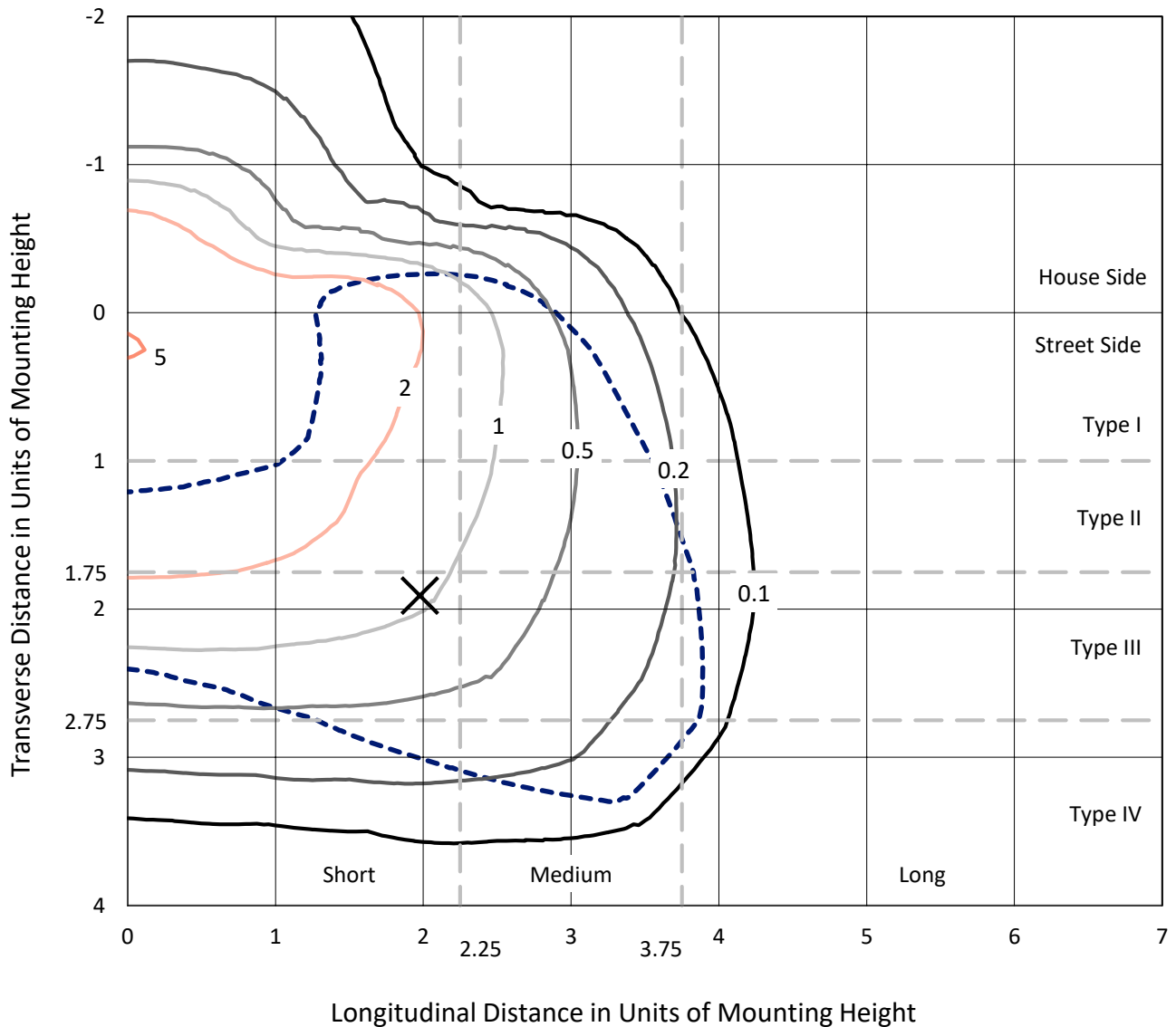
Input Watts (W): 279
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

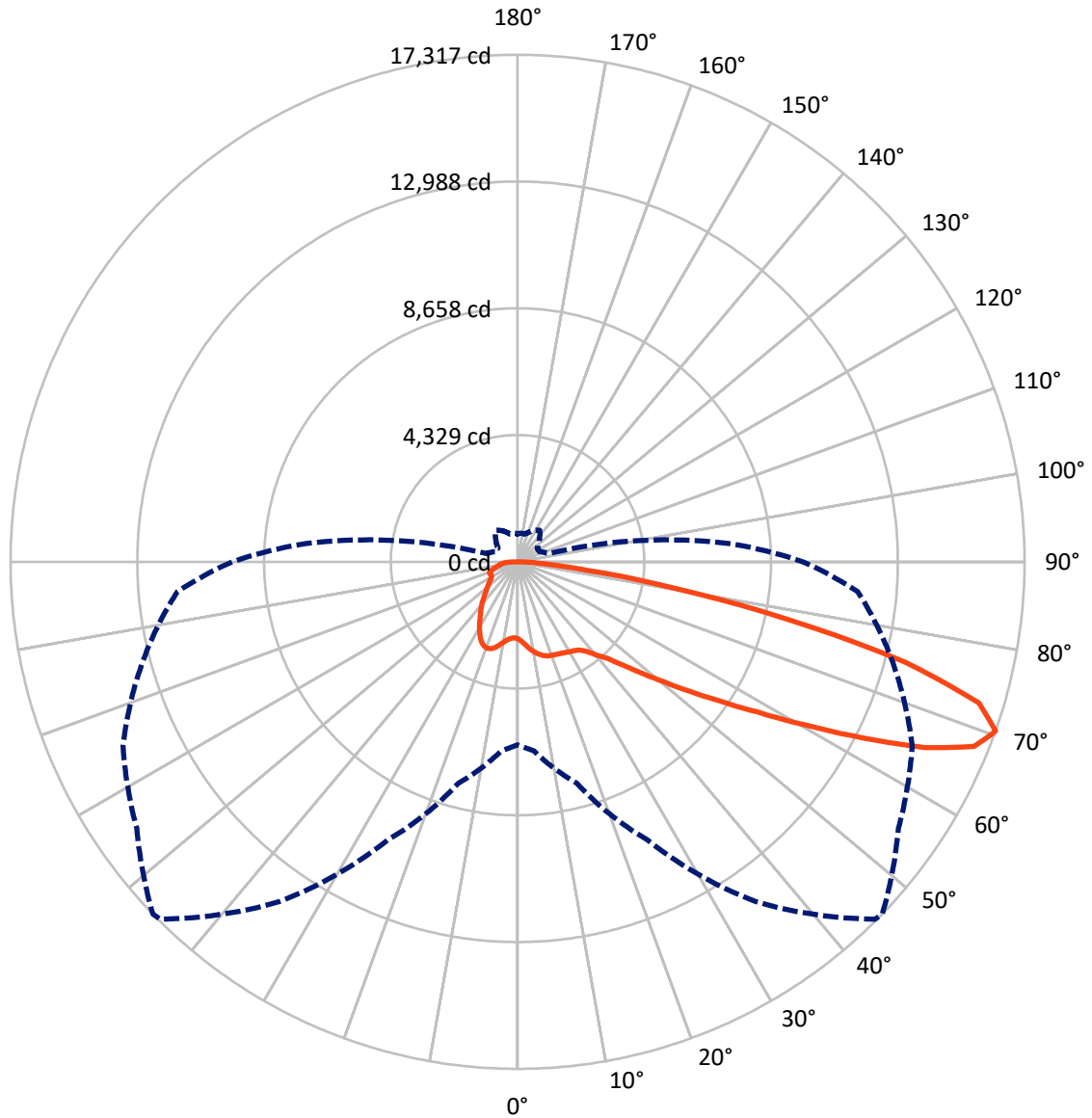
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5914.7	0.0	5914.7
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	19891.3	0.0	19891.3
	% Fixture	77.1	0.0	77.1
Total	Lumens	25806.0	0.0	25806.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	268.0	1.0
10°-20°	893.0	3.5
20°-30°	1488.9	5.8
30°-40°	2112.9	8.2
40°-50°	3107.9	12.0
50°-60°	5263.2	20.4
60°-70°	7471.0	29.0
70°-80°	4538.7	17.6
80°-90°	662.4	2.6
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°	25806.0	100.0
0°-180°	25806.0	100.0

Coefficient of Utilization



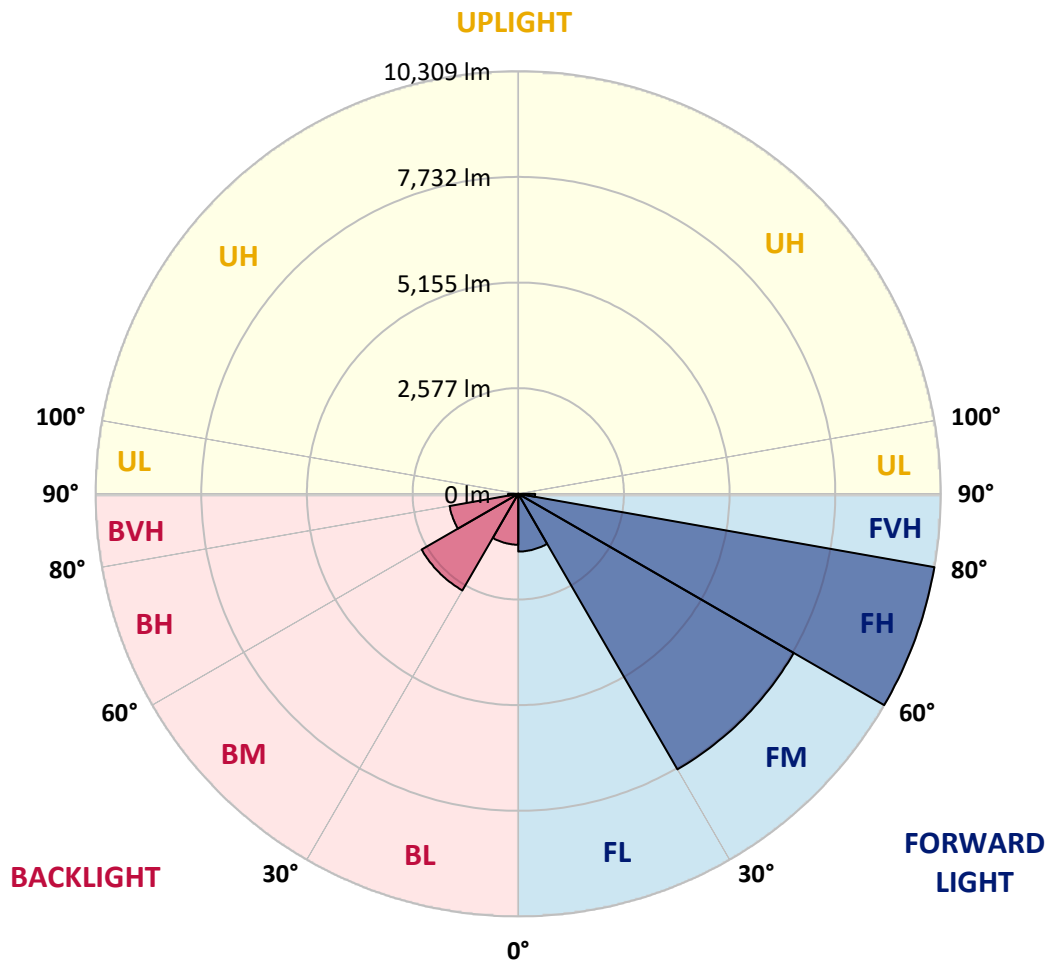
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1408.1	5.5			
FM (30°-60°)	7761.3	30.1			
FH (60°-80°)	10309.3	39.9			G4/12000
FVH (80°-90°)	412.6	1.6			G3/500
BL (0°-30°)	1241.8	4.8	B3/2500		
BM (30°-60°)	2722.7	10.6	B3/5000		
BH (60°-80°)	1700.4	6.6	B3/2500		G3/2500
BVH (80°-90°)	249.8	1.0			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	2629.1	2629.1	2629.1	2629.1	2629.1	2629.1	2629.1	2629.1	2629.1	2629.1	2629.1
2.5°	2760.7	2762.5	2766.0	2757.2	2732.5	2725.4	2722.7	2697.1	2680.3	2655.6	2634.4
5°	2981.5	2983.3	2978.0	2953.2	2898.5	2857.9	2854.3	2796.0	2743.1	2686.5	2644.1
7.5°	3212.0	3214.7	3197.9	3151.1	3074.2	3003.6	2999.2	2919.7	2839.3	2753.6	2690.1
10°	3416.0	3405.4	3378.0	3312.7	3221.7	3135.2	3131.6	3048.6	2955.9	2852.6	2767.8
12.5°	3552.0	3543.2	3507.9	3428.4	3328.6	3249.1	3242.0	3165.2	3075.1	2962.1	2860.5
15°	3627.1	3633.3	3585.6	3495.5	3398.3	3331.2	3325.0	3270.3	3189.9	3076.0	2959.4
17.5°	3636.8	3642.1	3596.2	3507.0	3427.5	3381.6	3378.9	3342.7	3284.4	3174.9	3053.0
20°	3580.3	3583.8	3545.8	3472.5	3420.4	3406.3	3405.4	3389.5	3346.2	3249.1	3130.8
22.5°	3498.1	3500.8	3473.4	3420.4	3402.8	3424.8	3431.0	3424.8	3393.9	3303.0	3191.7
25°	3477.8	3476.1	3447.8	3393.9	3408.9	3455.8	3463.7	3466.3	3445.2	3365.7	3269.4
27.5°	3575.9	3569.7	3515.8	3429.3	3439.0	3495.5	3506.1	3531.7	3518.5	3448.7	3357.7
30°	3859.3	3848.8	3738.4	3563.5	3515.8	3544.9	3558.2	3598.8	3601.5	3543.2	3475.2
32.5°	4338.0	4324.8	4126.9	3814.3	3645.6	3595.3	3607.7	3668.6	3701.3	3656.2	3582.9
35°	4943.0	4928.0	4668.3	4240.9	3862.9	3691.6	3700.4	3749.0	3814.3	3750.7	3653.6
37.5°	5573.5	5537.3	5287.4	4742.5	4208.2	3897.3	3897.3	3903.5	3934.4	3801.9	3736.6
40°	6200.6	6164.4	5938.3	5332.4	4655.1	4221.4	4201.1	4064.2	4039.5	3925.6	3903.5
42.5°	6783.4	6772.8	6639.5	5999.2	5179.7	4540.3	4512.0	4279.7	4285.0	4214.4	4215.3
45°	7403.4	7403.4	7294.8	6672.2	5790.8	5052.5	5024.2	4682.4	4735.4	4702.8	4781.4
47.5°	7909.5	7925.4	7910.3	7373.4	6501.7	5703.4	5652.1	5240.6	5389.0	5501.1	5729.9
50°	8426.1	8450.8	8453.5	8142.6	7361.0	6477.0	6418.7	5981.5	6312.7	6634.2	7083.7
52.5°	9175.9	9231.5	9009.9	8910.1	8413.7	7395.5	7338.1	6934.5	7487.3	7938.6	8713.1
55°	9870.9	9822.4	9664.3	9726.1	9540.6	8441.1	8397.8	8043.7	8796.1	9382.5	10388.4
57.5°	10247.1	10243.6	10402.6	10667.5	10755.8	9730.5	9694.3	9349.9	10271.9	10712.6	11961.3
60°	10688.7	10694.9	11088.8	11690.2	12054.1	11336.1	11320.2	11058.8	11705.2	11954.3	13195.1
62.5°	10750.5	10861.8	11540.1	12575.1	13269.3	13211.9	13247.2	12598.1	12987.5	12945.2	14116.2
65°	10039.6	10186.2	11413.8	12842.7	14477.4	15263.4	15296.1	14146.2	13998.8	13792.1	14445.6
67.5°	8582.4	8799.7	10133.2	12260.7	14875.7	16779.8	16825.7	15346.4	14837.7	14079.1	13652.6
70°	6245.6	6486.7	7829.1	10471.5	14165.7	17264.6	17316.7	15877.2	14869.5	13262.2	11654.9
72.5°	3772.8	3961.8	5068.4	7709.0	11956.0	16381.5	16474.2	15204.2	13575.7	11233.6	8606.3
75°	1656.8	1780.4	2450.7	4442.2	8559.5	13553.6	13669.3	13014.0	11030.5	8163.8	5086.9
77.5°	705.6	741.0	1005.0	1929.7	4838.8	9261.6	9420.5	9508.8	7483.8	4442.2	2149.6
80°	439.8	453.9	568.7	873.4	2264.4	5201.7	5373.1	5594.7	3716.3	1632.9	750.7
82.5°	267.6	283.5	378.0	528.1	1179.0	2358.0	2440.1	2596.4	1442.2	705.6	388.6
85°	160.7	172.2	231.4	333.8	671.2	927.3	926.4	1024.4	679.1	453.9	204.9
87.5°	76.8	85.7	123.6	173.1	338.2	348.0	325.9	369.2	412.4	297.6	103.3
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°	2629.1	2629.1	2629.1	2629.1	2629.1	2629.1	2629.1	2629.1	2629.1	2629.1	2629.1
2.5°	2627.4	2623.8	2612.3	2603.5	2601.7	2596.4	2592.0	2594.7	2598.2	2599.1	2599.1
5°	2626.5	2616.8	2601.7	2595.6	2603.5	2614.1	2627.4	2645.0	2655.6	2663.6	2668.9
7.5°	2668.9	2650.3	2633.5	2630.0	2645.9	2674.2	2704.2	2741.3	2766.9	2784.6	2788.1
10°	2739.5	2716.6	2699.8	2703.3	2731.6	2772.2	2814.6	2862.3	2901.1	2925.0	2926.7
12.5°	2820.8	2798.7	2782.8	2797.8	2844.6	2894.1	2938.2	2979.7	3015.1	3038.9	3038.9
15°	2914.4	2898.5	2879.9	2914.4	2978.0	3022.1	3040.7	3061.0	3080.4	3098.1	3094.5
17.5°	3004.5	2989.4	2979.7	3020.4	3086.6	3106.9	3094.5	3079.5	3079.5	3089.2	3091.0
20°	3082.2	3068.9	3075.1	3114.9	3149.3	3128.1	3082.2	3034.5	3015.1	3020.4	3025.7
22.5°	3150.2	3144.0	3162.5	3181.1	3156.4	3082.2	2997.4	2932.9	2909.1	2907.3	2909.1
25°	3229.7	3228.8	3251.7	3218.2	3108.7	2971.8	2857.9	2795.2	2781.9	2792.5	2810.2
27.5°	3328.6	3338.3	3349.8	3227.0	3011.5	2804.9	2689.2	2645.9	2659.2	2684.8	2701.5
30°	3454.9	3481.4	3456.6	3204.9	2872.0	2614.1	2503.7	2491.4	2527.6	2563.8	2581.4
32.5°	3577.6	3619.1	3559.1	3147.5	2691.8	2411.9	2326.2	2322.7	2366.8	2402.2	2426.9
35°	3676.5	3758.7	3635.9	3033.6	2483.4	2225.5	2162.8	2139.0	2154.9	2196.4	2224.6
37.5°	3805.5	3942.4	3688.9	2859.6	2257.3	2071.9	1998.6	1943.8	1929.7	1946.5	1960.6
40°	4041.3	4222.3	3713.6	2616.8	2036.5	1918.2	1844.0	1763.6	1708.0	1667.4	1668.3
42.5°	4426.3	4587.1	3697.7	2321.8	1832.5	1768.1	1684.2	1591.4	1501.3	1409.5	1402.4
45°	5051.6	5129.3	3650.0	2009.2	1653.2	1610.9	1532.3	1439.5	1319.4	1215.2	1205.5
47.5°	6052.2	5880.0	3575.9	1736.3	1495.2	1477.5	1405.1	1298.2	1171.1	1087.2	1080.1
50°	7416.7	6963.6	3539.7	1519.0	1355.6	1360.9	1301.8	1188.7	1068.6	1006.8	999.7
52.5°	9048.7	8225.6	3609.4	1351.2	1243.5	1262.0	1217.9	1111.9	1011.2	962.6	955.6
55°	10741.7	9532.7	3684.5	1229.3	1137.5	1173.7	1158.7	1071.3	980.3	935.3	929.1
57.5°	12191.0	10508.6	3534.4	1130.4	1043.0	1099.5	1112.8	1045.6	964.4	923.8	916.7
60°	13103.2	10901.6	3140.5	1037.7	967.9	1040.3	1086.3	1038.6	970.6	967.0	961.7
62.5°	13536.0	10867.1	2549.6	964.4	921.1	1014.7	1105.7	1078.3	1041.2	1073.0	1075.7
65°	13341.7	10347.8	1898.8	915.8	887.6	1024.4	1164.0	1153.4	1061.5	1093.3	1097.8
67.5°	12062.9	9108.8	1406.0	873.4	850.5	1051.8	1270.0	1178.1	1021.8	1044.8	1030.6
70°	9749.9	7221.5	1084.5	825.7	812.5	1048.3	1317.7	1163.1	978.5	983.8	945.8
72.5°	6723.4	4924.4	882.3	781.6	757.7	955.6	1284.1	1126.0	942.3	901.7	851.4
75°	3656.2	2643.3	749.8	735.7	661.5	839.0	1222.3	1099.5	909.6	855.8	827.5
77.5°	1438.6	1096.9	650.9	673.0	578.5	741.0	1153.4	1049.2	864.6	793.9	779.8
80°	587.3	559.9	539.6	582.0	497.2	648.2	1070.4	990.0	810.7	736.5	708.3
82.5°	332.9	348.0	419.5	459.2	403.6	597.0	1030.6	942.3	746.3	659.7	626.2
85°	170.4	204.0	292.3	329.4	296.7	507.8	949.4	824.9	598.8	505.2	507.8
87.5°	82.1	113.9	184.6	206.7	192.5	367.4	709.2	597.9	466.3	369.2	357.7
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)