

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P638232

Luminaire Tested: GWS-SA4E-735-U-T4W-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638232
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-52)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4E-735-U-T4W-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: (64) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29924.6 lumens
Efficiency: N/A
Efficacy: 147.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

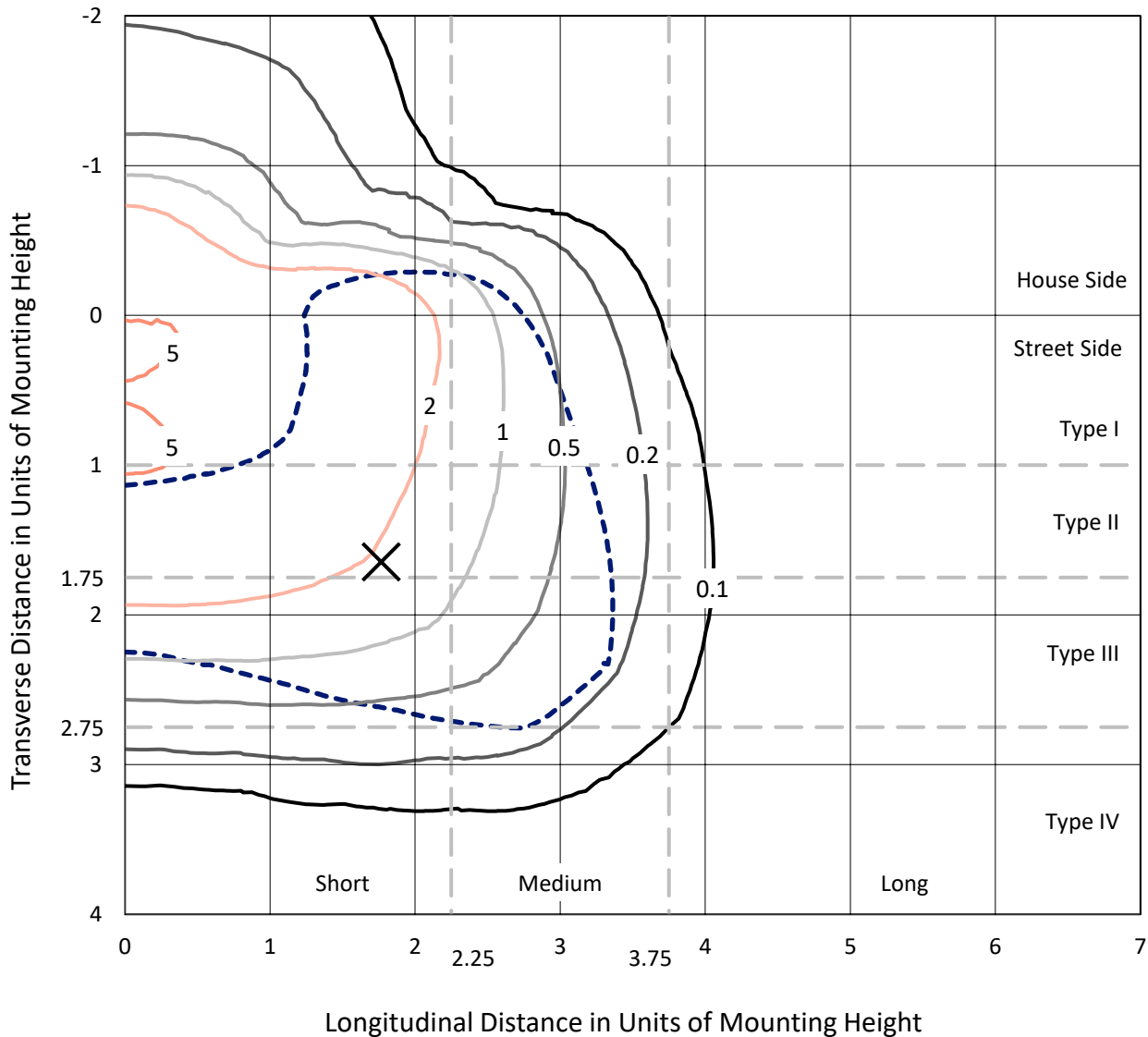
Input Watts (W): 202.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

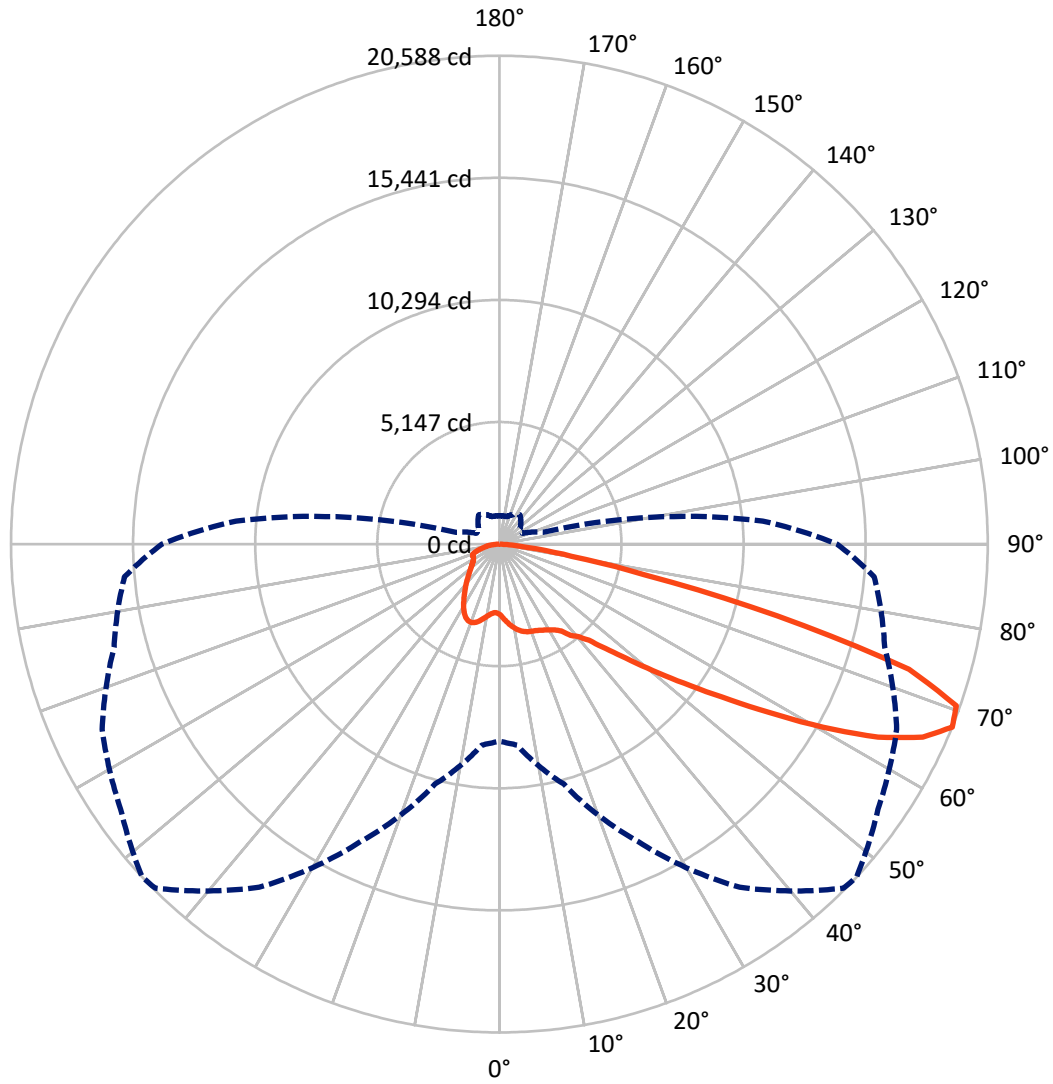
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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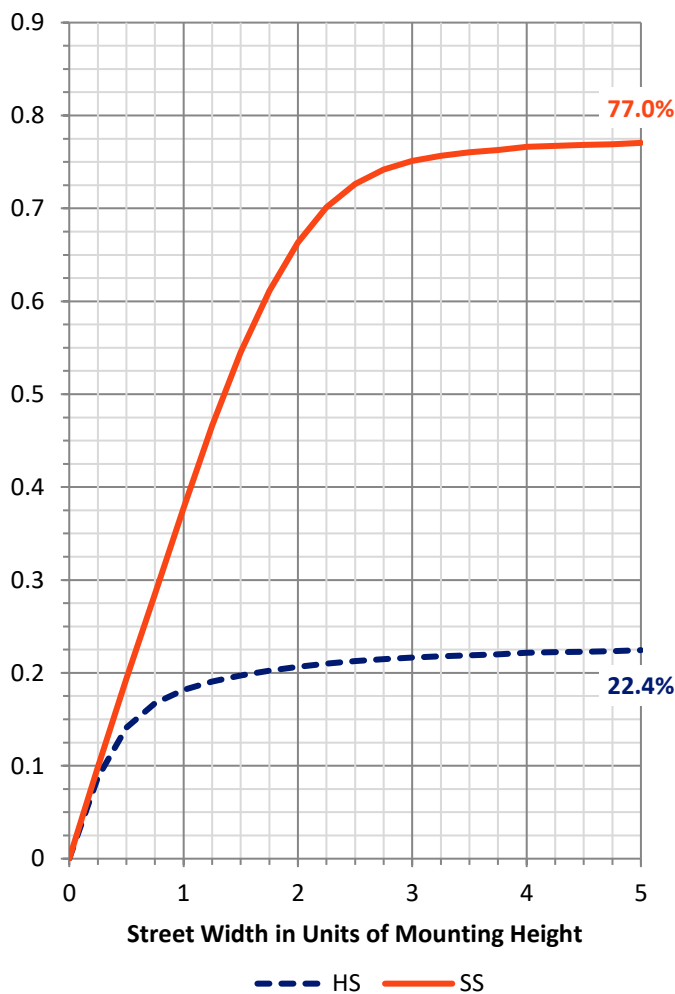
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6820.0	0.0	6820.0
	% Fixture	22.8	0.0	22.8
Street Side	Lumens	23104.6	0.0	23104.6
	% Fixture	77.2	0.0	77.2
Total	Lumens	29924.6	0.0	29924.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	303.2	1.0
10°-20°	1010.1	3.4
20°-30°	1716.9	5.7
30°-40°	2515.0	8.4
40°-50°	3831.9	12.8
50°-60°	6856.1	22.9
60°-70°	9148.8	30.6
70°-80°	4137.3	13.8
80°-90°	405.3	1.4
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°	29924.6	100.0
0°-180°	29924.6	100.0

Coefficient of Utilization



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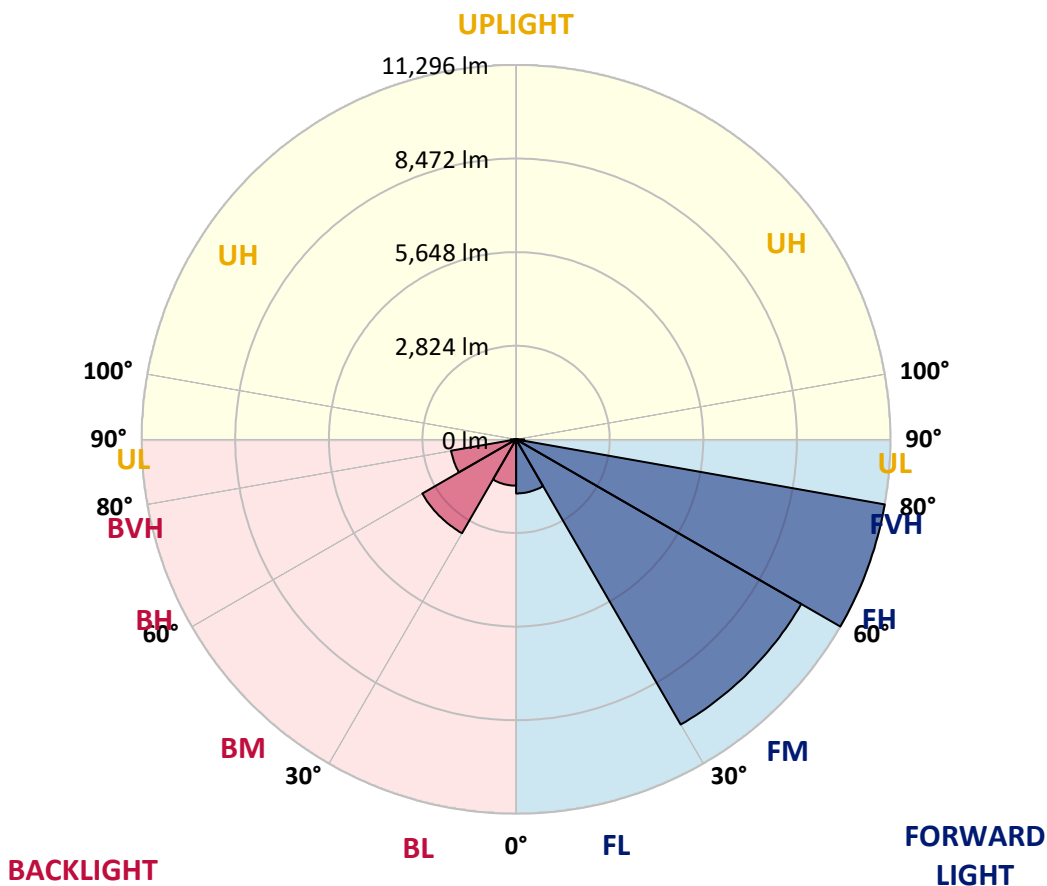
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1632.0	5.5			
FM (30°-60°)	9935.3	33.2			
FH (60°-80°)	11296.2	37.7			G4/12000
FVH (80°-90°)	241.1	0.8			G3/500
BL (0°-30°)	1398.1	4.7	B3/2500		
BM (30°-60°)	3267.8	10.9	B3/5000		
BH (60°-80°)	1989.9	6.6	B3/2500		G3/2500
BVH (80°-90°)	164.2	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	2966.5	2966.5	2966.5	2966.5	2966.5	2966.5	2966.5	2966.5	2966.5	2966.5	2966.5
2.5°	3163.4	3174.2	3172.0	3154.7	3143.9	3124.4	3126.6	3096.3	3050.9	3020.6	2985.9
5°	3442.5	3459.8	3438.2	3410.0	3366.8	3304.0	3297.5	3228.3	3141.7	3081.2	3018.4
7.5°	3684.8	3695.7	3669.7	3622.1	3559.3	3475.0	3459.8	3377.6	3269.4	3174.2	3083.3
10°	3873.1	3886.1	3851.4	3788.7	3706.5	3622.1	3611.3	3526.9	3412.2	3299.7	3185.0
12.5°	4033.2	4037.5	4000.7	3916.4	3827.6	3741.1	3730.3	3652.4	3546.4	3431.7	3306.2
15°	4126.2	4128.4	4083.0	3989.9	3905.5	3829.8	3823.3	3756.2	3658.9	3550.7	3416.5
17.5°	4119.7	4124.1	4091.6	4009.4	3935.8	3890.4	3883.9	3840.6	3764.9	3667.5	3533.4
20°	4039.7	4044.0	4022.4	3968.3	3929.3	3916.4	3918.5	3905.5	3860.1	3780.0	3643.7
22.5°	3976.9	3983.4	3964.0	3925.0	3920.7	3951.0	3957.5	3964.0	3942.3	3870.9	3738.9
25°	4007.2	4018.0	3987.8	3933.7	3942.3	4009.4	4022.4	4044.0	4026.7	3966.1	3851.4
27.5°	4217.1	4223.6	4145.7	4035.4	4009.4	4080.8	4100.3	4134.9	4121.9	4065.7	3976.9
30°	4704.0	4699.6	4533.0	4262.5	4154.4	4182.5	4197.6	4247.4	4251.7	4214.9	4130.6
32.5°	5389.9	5368.2	5110.7	4680.1	4366.4	4297.2	4314.5	4381.6	4431.3	4392.4	4277.7
35°	6114.7	6095.2	5811.8	5307.6	4758.0	4517.9	4498.4	4550.3	4626.1	4517.9	4353.4
37.5°	6804.9	6774.6	6484.7	5861.5	5240.6	4905.2	4877.0	4825.1	4779.7	4572.0	4446.5
40°	7570.9	7536.3	7283.1	6577.7	5772.8	5201.6	5130.2	4924.7	4883.5	4751.6	4688.8
42.5°	8388.8	8388.8	8178.9	7484.3	6415.5	5625.7	5532.7	5223.2	5266.5	5180.0	5106.4
45°	9206.7	9230.5	9063.9	8397.4	7274.5	6426.3	6277.0	5837.7	5941.6	5902.7	5865.9
47.5°	9903.4	9948.8	9916.4	9330.0	8326.0	7400.0	7172.8	6716.2	6939.1	7032.1	7136.0
50°	10654.2	10704.0	10671.5	10440.0	9557.2	8579.2	8375.8	7904.1	8287.1	8566.2	8905.9
52.5°	11768.5	11839.9	11569.5	11480.8	11052.3	9918.5	9736.8	9200.2	9894.7	10357.8	11115.1
55°	12709.8	12707.6	12612.4	12815.8	12657.8	11556.5	11355.3	10868.4	11755.5	12246.7	13354.5
57.5°	13146.8	13198.8	13525.5	14101.0	14416.9	13557.9	13365.4	12867.7	13752.7	14008.0	15204.5
60°	13371.9	13436.8	14068.6	15206.7	16057.0	15743.3	15667.6	15033.6	15531.3	15501.0	16764.6
62.5°	13056.0	13185.8	14200.6	15713.0	17227.6	17939.5	17915.7	16957.2	17043.7	16747.3	17731.8
65°	11606.3	11746.9	13339.4	15459.9	17896.2	19609.9	19616.4	18699.0	18205.6	17353.1	17569.5
67.5°	8300.1	8501.3	10470.3	13832.7	17660.4	20512.2	20587.9	19488.7	18478.3	16816.5	15864.5
70°	4524.4	4671.5	6214.2	10054.9	15535.6	20295.8	20436.4	19107.9	17275.2	14546.8	12212.1
72.5°	2055.5	2103.1	2890.7	5517.5	10613.1	17470.0	18058.5	17052.4	14187.6	10745.1	7765.6
75°	941.2	962.9	1259.3	2639.8	5545.6	11690.6	12103.9	12701.1	9873.1	6785.5	4048.3
77.5°	590.7	597.2	716.2	1207.4	2765.2	5835.6	6270.5	7562.2	5781.5	3358.1	1692.0
80°	348.4	354.9	445.7	653.4	1298.2	2670.0	3083.3	2990.3	2717.6	1449.7	770.3
82.5°	175.3	181.8	257.5	372.2	707.5	1062.4	1250.6	1257.1	1012.6	785.4	434.9
85°	62.7	64.9	84.4	147.1	300.8	350.5	391.6	478.2	495.5	456.5	209.9
87.5°	0.0	0.0	2.2	4.3	8.7	34.6	36.8	69.2	145.0	162.3	84.4
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°	2966.5	2966.5	2966.5	2966.5	2966.5	2966.5	2966.5	2966.5	2966.5	2966.5	2966.5
2.5°	2975.1	2942.7	2931.9	2921.0	2903.7	2897.2	2884.3	2871.3	2871.3	2858.3	2851.8
5°	2990.3	2947.0	2918.9	2905.9	2895.1	2901.6	2901.6	2905.9	2921.0	2912.4	2916.7
7.5°	3044.4	2994.6	2955.7	2944.8	2944.8	2970.8	2988.1	3009.7	3037.9	3042.2	3042.2
10°	3139.6	3081.2	3040.0	3033.6	3044.4	3081.2	3107.1	3133.1	3167.7	3169.9	3174.2
12.5°	3243.4	3185.0	3143.9	3152.6	3163.4	3211.0	3239.1	3260.7	3295.4	3295.4	3293.2
15°	3351.6	3286.7	3252.1	3269.4	3301.9	3355.9	3360.3	3362.4	3379.7	3375.4	3373.3
17.5°	3464.1	3394.9	3368.9	3394.9	3429.5	3455.5	3433.8	3403.5	3397.1	3388.4	3384.1
20°	3574.5	3503.1	3492.3	3511.7	3522.6	3500.9	3433.8	3377.6	3351.6	3338.6	3334.3
22.5°	3669.7	3609.1	3602.6	3602.6	3548.5	3472.8	3373.3	3297.5	3262.9	3245.6	3241.3
25°	3782.2	3725.9	3715.1	3656.7	3518.2	3379.7	3245.6	3176.4	3148.2	3139.6	3141.7
27.5°	3914.2	3875.2	3840.6	3674.0	3431.7	3215.3	3063.8	3033.6	3022.7	3033.6	3040.0
30°	4076.5	4037.5	3959.6	3652.4	3293.2	3001.1	2856.1	2854.0	2886.4	2914.5	2918.9
32.5°	4208.5	4191.1	4063.5	3583.1	3098.5	2765.2	2641.9	2650.6	2709.0	2747.9	2754.4
35°	4312.3	4340.4	4150.0	3468.5	2866.9	2542.4	2445.0	2449.3	2481.8	2535.9	2538.1
37.5°	4459.4	4554.7	4227.9	3293.2	2600.8	2349.8	2261.1	2228.6	2224.3	2239.5	2243.8
40°	4755.9	4898.7	4284.2	3037.9	2343.3	2176.7	2077.2	2014.4	1960.3	1919.2	1906.2
42.5°	5203.8	5368.2	4316.6	2728.5	2114.0	2005.8	1893.3	1813.2	1718.0	1631.5	1601.2
45°	6026.0	6080.1	4316.6	2399.6	1910.6	1845.7	1733.1	1637.9	1516.8	1415.1	1393.4
47.5°	7341.5	7168.4	4321.0	2081.5	1731.0	1705.0	1607.7	1499.5	1365.3	1280.9	1267.9
50°	9323.5	8715.5	4409.7	1817.5	1581.7	1586.0	1514.6	1395.6	1274.4	1211.7	1200.9
52.5°	11569.5	10621.8	4647.7	1622.8	1456.2	1488.6	1449.7	1335.0	1226.8	1172.7	1161.9
55°	13681.3	12374.4	4851.1	1484.3	1350.2	1406.4	1404.3	1298.2	1200.9	1146.8	1140.3
57.5°	15477.2	13575.2	4820.8	1371.8	1259.3	1330.7	1363.2	1274.4	1183.6	1138.1	1131.6
60°	16593.7	14211.4	4390.2	1267.9	1190.1	1276.6	1339.3	1267.9	1192.2	1181.4	1183.6
62.5°	17078.3	14094.5	3563.7	1190.1	1144.6	1250.6	1365.3	1313.4	1272.3	1298.2	1313.4
65°	16325.3	13090.6	2622.4	1131.6	1101.3	1257.1	1425.9	1384.8	1272.3	1289.6	1296.1
67.5°	14235.2	11143.2	1895.4	1073.2	1047.2	1276.6	1512.4	1374.0	1198.7	1198.7	1185.7
70°	10258.2	8014.5	1376.1	1014.8	993.2	1248.5	1516.8	1300.4	1114.3	1107.8	1075.4
72.5°	6173.1	4727.8	1073.2	949.9	910.9	1107.8	1421.6	1213.9	1032.1	978.0	939.1
75°	3206.6	2369.3	900.1	878.5	781.1	939.1	1300.4	1079.7	882.8	835.2	813.6
77.5°	1374.0	1107.8	772.5	783.3	649.1	789.8	1049.4	934.7	783.3	722.7	703.2
80°	677.2	629.6	610.2	627.5	519.3	610.2	904.4	817.9	664.3	595.0	566.9
82.5°	387.3	367.8	439.2	445.7	370.0	510.6	763.8	692.4	549.6	473.9	428.4
85°	179.6	192.6	266.1	268.3	229.4	350.5	499.8	389.5	292.1	242.3	231.5
87.5°	71.4	84.4	116.8	114.7	67.1	64.9	43.3	23.8	19.5	17.3	15.1
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)