

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: P640267

Luminaire Tested: GWS-SA5D-740-U-T4W-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640267
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-SA5D-740-U-T4W-W
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: (80) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29783.6 lumens
Efficiency: N/A
Efficacy: 145.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

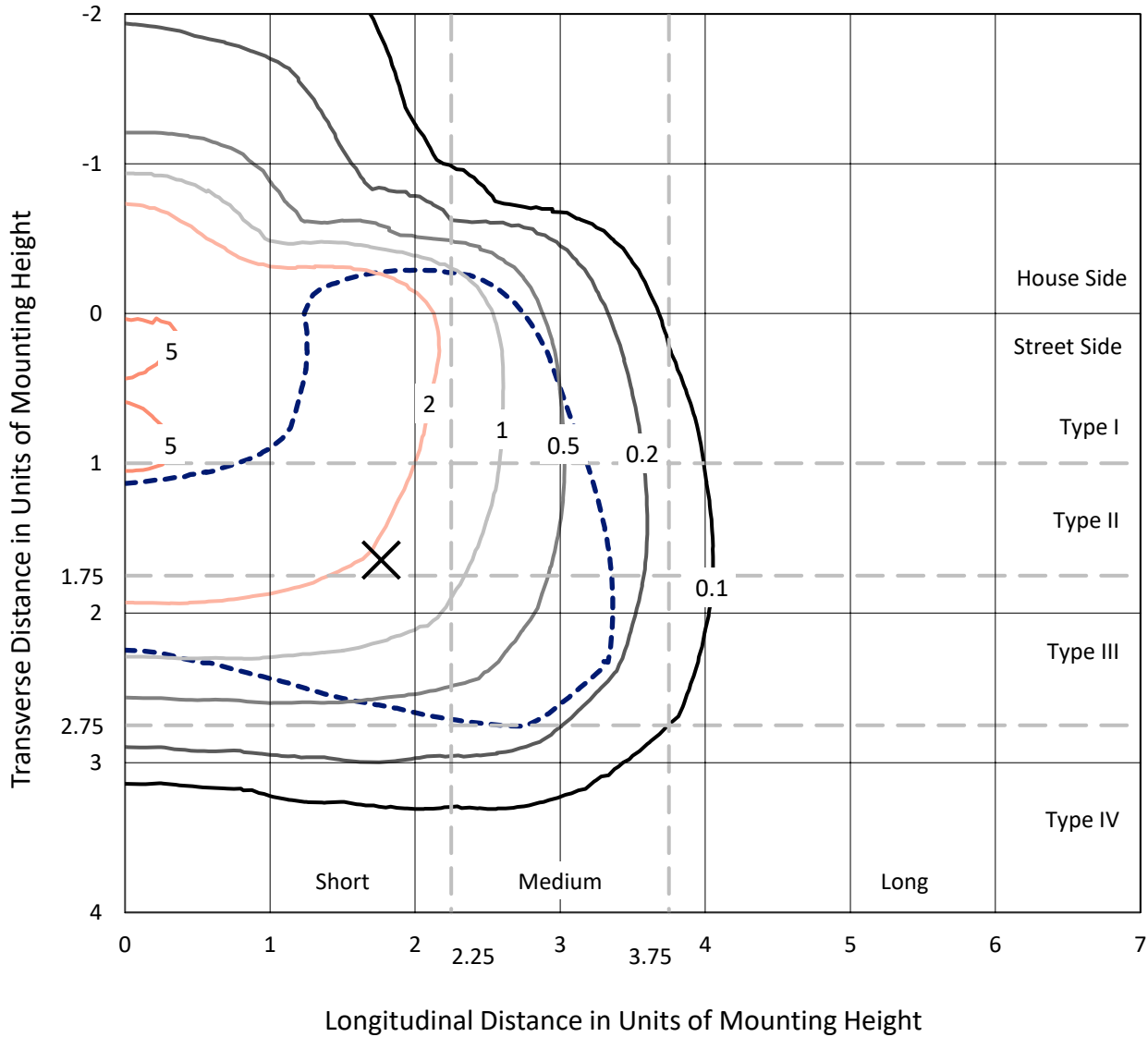
Input Watts (W): 204.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

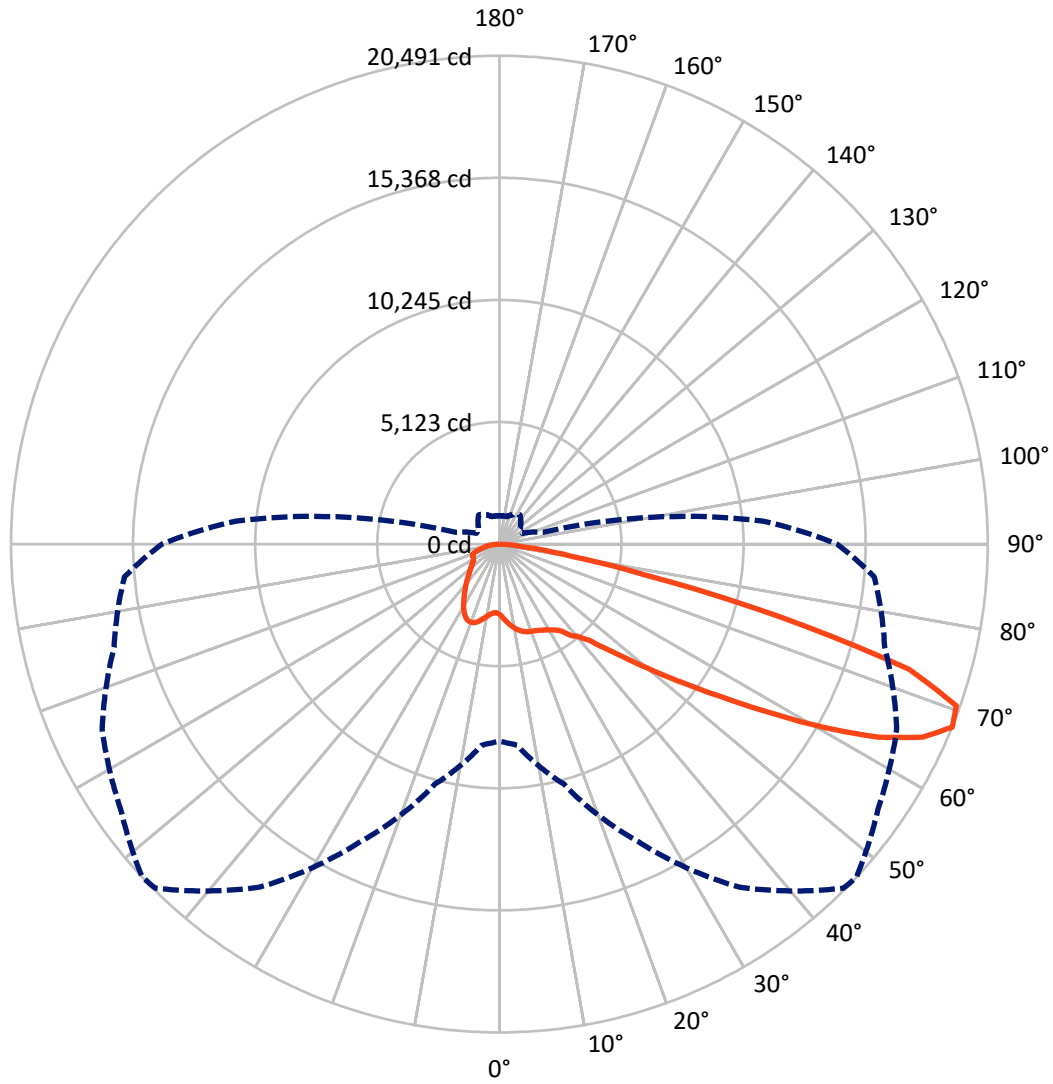
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 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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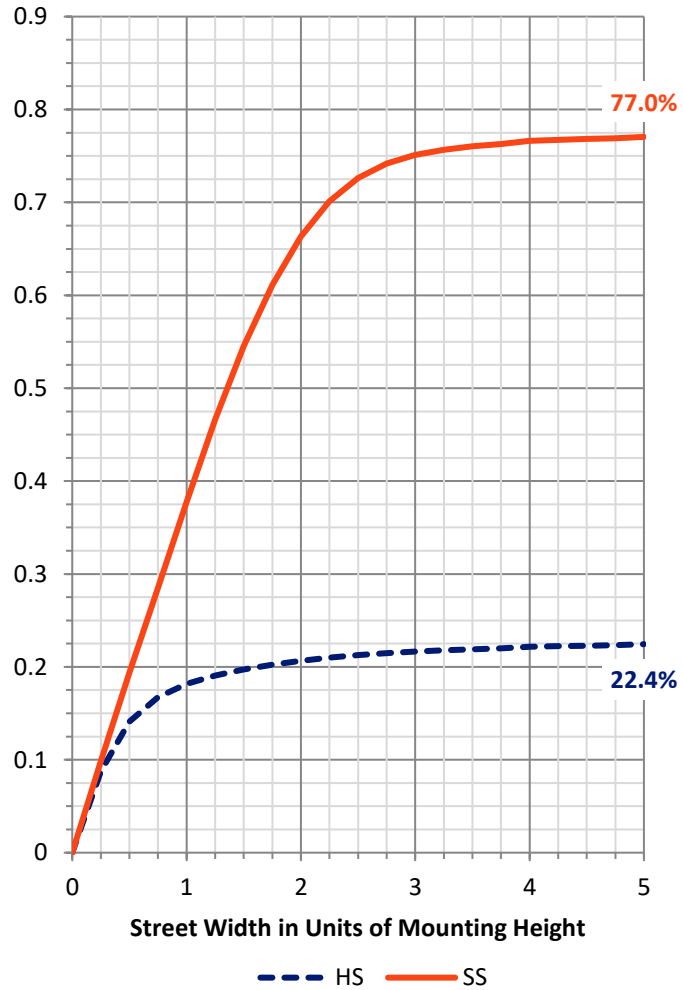
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6787.9	0.0	6787.9
	% Fixture	22.8	0.0	22.8
Street Side	Lumens	22995.7	0.0	22995.7
	% Fixture	77.2	0.0	77.2
Total	Lumens	29783.6	0.0	29783.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	301.8	1.0
10°-20°	1005.3	3.4
20°-30°	1708.8	5.7
30°-40°	2503.2	8.4
40°-50°	3813.9	12.8
50°-60°	6823.8	22.9
60°-70°	9105.7	30.6
70°-80°	4117.8	13.8
80°-90°	403.4	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°	29783.6	100.0
0°-180°	29783.6	100.0

Coefficient of Utilization



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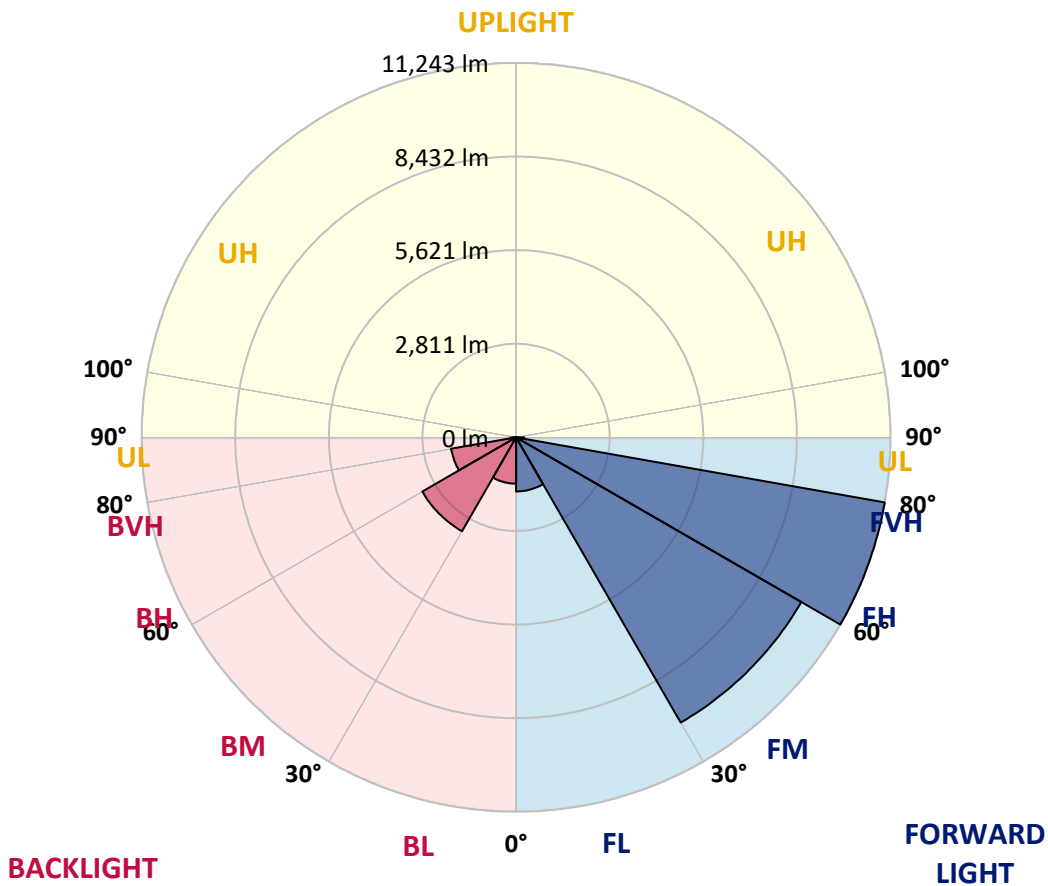
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1624.3	5.5			
FM (30°-60°)	9888.5	33.2			
FH (60°-80°)	11243.0	37.7			G4/12000
FVH (80°-90°)	240.0	0.8			G3/500
BL (0°-30°)	1391.5	4.7	B3/2500		
BM (30°-60°)	3252.4	10.9	B3/5000		
BH (60°-80°)	1980.5	6.6	B3/2500		G3/2500
BVH (80°-90°)	163.5	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°	2952.5	2952.5	2952.5	2952.5	2952.5	2952.5	2952.5	2952.5	2952.5	2952.5	2952.5
2.5°	3148.5	3159.2	3157.1	3139.9	3129.1	3109.7	3111.9	3081.7	3036.5	3006.3	2971.9
5°	3426.3	3443.5	3422.0	3394.0	3350.9	3288.4	3282.0	3213.1	3126.9	3066.6	3004.2
7.5°	3667.5	3678.2	3652.4	3605.0	3542.6	3458.6	3443.5	3361.7	3254.0	3159.2	3068.8
10°	3854.8	3867.7	3833.3	3770.8	3689.0	3605.0	3594.3	3510.3	3396.1	3284.1	3170.0
12.5°	4014.2	4018.5	3981.9	3897.9	3809.6	3723.5	3712.7	3635.2	3529.6	3415.5	3290.6
15°	4106.8	4108.9	4063.7	3971.1	3887.1	3811.8	3805.3	3738.5	3641.6	3534.0	3400.4
17.5°	4100.3	4104.6	4072.3	3990.5	3917.3	3872.1	3865.6	3822.5	3747.2	3650.2	3516.7
20°	4020.7	4025.0	4003.4	3949.6	3910.8	3897.9	3900.1	3887.1	3841.9	3762.2	3626.6
22.5°	3958.2	3964.7	3945.3	3906.5	3902.2	3932.4	3938.8	3945.3	3923.7	3852.7	3721.3
25°	3988.3	3999.1	3969.0	3915.1	3923.7	3990.5	4003.4	4025.0	4007.7	3947.4	3833.3
27.5°	4197.2	4203.7	4126.2	4016.3	3990.5	4061.6	4080.9	4115.4	4102.5	4046.5	3958.2
30°	4681.8	4677.5	4511.7	4242.5	4134.8	4162.8	4177.9	4227.4	4231.7	4195.1	4111.1
32.5°	5364.5	5342.9	5086.7	4658.1	4345.8	4276.9	4294.1	4360.9	4410.4	4371.7	4257.5
35°	6085.9	6066.5	5784.4	5282.6	4735.6	4496.6	4477.2	4528.9	4604.3	4496.6	4332.9
37.5°	6772.9	6742.7	6454.1	5833.9	5215.9	4882.1	4854.1	4802.4	4757.2	4550.4	4425.5
40°	7535.2	7500.8	7248.8	6546.7	5745.6	5177.1	5106.0	4901.4	4860.5	4729.2	4666.7
42.5°	8349.3	8349.3	8140.4	7449.1	6385.2	5599.2	5506.6	5198.6	5241.7	5155.6	5082.3
45°	9163.3	9187.0	9021.2	8357.9	7240.2	6396.0	6247.4	5810.2	5913.6	5874.8	5838.2
47.5°	9856.7	9902.0	9869.7	9286.0	8286.8	7365.1	7139.0	6684.6	6906.4	6999.0	7102.4
50°	10604.0	10653.5	10621.2	10390.8	9512.2	8538.8	8336.3	7866.9	8248.0	8525.8	8864.0
52.5°	11713.1	11784.1	11515.0	11426.7	11000.3	9871.8	9690.9	9156.8	9848.1	10309.0	11062.7
55°	12649.9	12647.7	12553.0	12755.4	12598.2	11502.0	11301.8	10817.2	11700.2	12189.0	13291.6
57.5°	13084.9	13136.6	13461.8	14034.6	14349.0	13494.1	13302.4	12807.1	13687.9	13942.0	15132.9
60°	13308.9	13373.5	14002.3	15135.0	15981.4	15669.1	15593.8	14962.8	15458.1	15427.9	16685.6
62.5°	12994.4	13123.6	14133.7	15639.0	17146.5	17855.0	17831.3	16877.3	16963.4	16668.4	17648.2
65°	11551.6	11691.5	13276.5	15387.0	17811.9	19517.5	19524.0	18610.9	18119.8	17271.4	17486.7
67.5°	8261.0	8461.2	10421.0	13767.6	17577.2	20415.5	20490.9	19396.9	18391.2	16737.3	15789.7
70°	4503.0	4649.5	6185.0	10007.5	15462.4	20200.2	20340.1	19017.9	17193.8	14478.2	12154.6
72.5°	2045.9	2093.2	2877.1	5491.5	10563.1	17387.6	17973.4	16972.0	14120.7	10694.5	7729.0
75°	936.8	958.3	1253.4	2627.3	5519.5	11635.6	12046.9	12641.3	9826.6	6753.5	4029.3
77.5°	587.9	594.4	712.8	1201.7	2752.2	5808.1	6240.9	7526.6	5754.2	3342.3	1684.1
80°	346.7	353.2	443.6	650.4	1292.1	2657.5	3068.8	2976.2	2704.8	1442.9	766.7
82.5°	174.4	180.9	256.3	370.4	704.2	1057.4	1244.7	1251.2	1007.9	781.7	432.9
85°	62.5	64.6	84.0	146.4	299.3	348.9	389.8	475.9	493.2	454.4	208.9
87.5°	0.0	0.0	2.2	4.3	8.6	34.5	36.6	68.9	144.3	161.5	84.0
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°	2952.5	2952.5	2952.5	2952.5	2952.5	2952.5	2952.5	2952.5	2952.5	2952.5	2952.5
2.5°	2961.1	2928.8	2918.0	2907.3	2890.0	2883.6	2870.7	2857.7	2857.7	2844.8	2838.4
5°	2976.2	2933.1	2905.1	2892.2	2881.4	2887.9	2887.9	2892.2	2907.3	2898.7	2903.0
7.5°	3030.0	2980.5	2941.7	2931.0	2931.0	2956.8	2974.0	2995.6	3023.6	3027.9	3027.9
10°	3124.8	3066.6	3025.7	3019.3	3030.0	3066.6	3092.5	3118.3	3152.8	3154.9	3159.2
12.5°	3228.1	3170.0	3129.1	3137.7	3148.5	3195.8	3223.8	3245.4	3279.8	3279.8	3277.7
15°	3335.8	3271.2	3236.8	3254.0	3286.3	3340.1	3344.4	3346.6	3363.8	3359.5	3357.4
17.5°	3447.8	3378.9	3353.1	3378.9	3413.4	3439.2	3417.7	3387.5	3381.1	3372.4	3368.1
20°	3557.6	3486.6	3475.8	3495.2	3506.0	3484.4	3417.7	3361.7	3335.8	3322.9	3318.6
22.5°	3652.4	3592.1	3585.6	3585.6	3531.8	3456.4	3357.4	3282.0	3247.5	3230.3	3226.0
25°	3764.4	3708.4	3697.6	3639.5	3501.6	3363.8	3230.3	3161.4	3133.4	3124.8	3126.9
27.5°	3895.7	3857.0	3822.5	3656.7	3415.5	3200.2	3049.4	3019.3	3008.5	3019.3	3025.7
30°	4057.3	4018.5	3941.0	3635.2	3277.7	2987.0	2842.7	2840.5	2872.8	2900.8	2905.1
32.5°	4188.6	4171.4	4044.3	3566.3	3083.9	2752.2	2629.5	2638.1	2696.2	2735.0	2741.5
35°	4292.0	4320.0	4130.5	3452.1	2853.4	2530.4	2433.5	2437.8	2470.1	2523.9	2526.1
37.5°	4438.4	4533.2	4208.0	3277.7	2588.5	2338.7	2250.4	2218.1	2213.8	2228.9	2233.2
40°	4733.5	4875.6	4264.0	3023.6	2332.3	2166.5	2067.4	2004.9	1951.1	1910.2	1897.3
42.5°	5179.3	5342.9	4296.3	2715.6	2104.0	1996.3	1884.3	1804.7	1709.9	1623.8	1593.6
45°	5997.6	6051.4	4296.3	2388.3	1901.6	1837.0	1725.0	1630.2	1509.6	1408.4	1386.9
47.5°	7306.9	7134.7	4300.6	2071.7	1722.8	1697.0	1600.1	1492.4	1358.9	1274.9	1262.0
50°	9279.6	8674.4	4388.9	1809.0	1574.2	1578.5	1507.5	1389.0	1268.4	1206.0	1195.2
52.5°	11515.0	10571.7	4625.8	1615.2	1449.3	1481.6	1442.9	1328.7	1221.1	1167.2	1156.4
55°	13616.8	12316.1	4828.2	1477.3	1343.8	1399.8	1397.6	1292.1	1195.2	1141.4	1134.9
57.5°	15404.2	13511.3	4798.1	1365.3	1253.4	1324.4	1356.7	1268.4	1178.0	1132.8	1126.3
60°	16515.5	14144.4	4369.5	1262.0	1184.4	1270.6	1333.0	1262.0	1186.6	1175.8	1178.0
62.5°	16997.9	14028.1	3546.9	1184.4	1139.2	1244.7	1358.9	1307.2	1266.3	1292.1	1307.2
65°	16248.4	13028.9	2610.1	1126.3	1096.1	1251.2	1419.2	1378.3	1266.3	1283.5	1290.0
67.5°	14168.1	11090.7	1886.5	1068.2	1042.3	1270.6	1505.3	1367.5	1193.1	1193.1	1180.1
70°	10209.9	7976.7	1369.6	1010.0	988.5	1242.6	1509.6	1294.3	1109.1	1102.6	1070.3
72.5°	6144.0	4705.5	1068.2	945.4	906.6	1102.6	1414.9	1208.1	1027.2	973.4	934.6
75°	3191.5	2358.1	895.9	874.3	777.4	934.6	1294.3	1074.6	878.6	831.3	809.7
77.5°	1367.5	1102.6	768.8	779.6	646.1	786.0	1044.5	930.3	779.6	719.3	699.9
80°	674.1	626.7	607.3	624.5	516.8	607.3	900.2	814.0	661.1	592.2	564.2
82.5°	385.5	366.1	437.2	443.6	368.3	508.2	760.2	689.1	547.0	471.6	426.4
85°	178.7	191.7	264.9	267.0	228.3	348.9	497.5	387.6	290.7	241.2	230.4
87.5°	71.1	84.0	116.3	114.1	66.8	64.6	43.1	23.7	19.4	17.2	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)