

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: P640982

Luminaire Tested: GWS-SA5E-830-U-T4W-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640982
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-SA5E-830-U-T4W-W
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: (80) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29566.4 lumens
Efficiency: N/A
Efficacy: 109.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

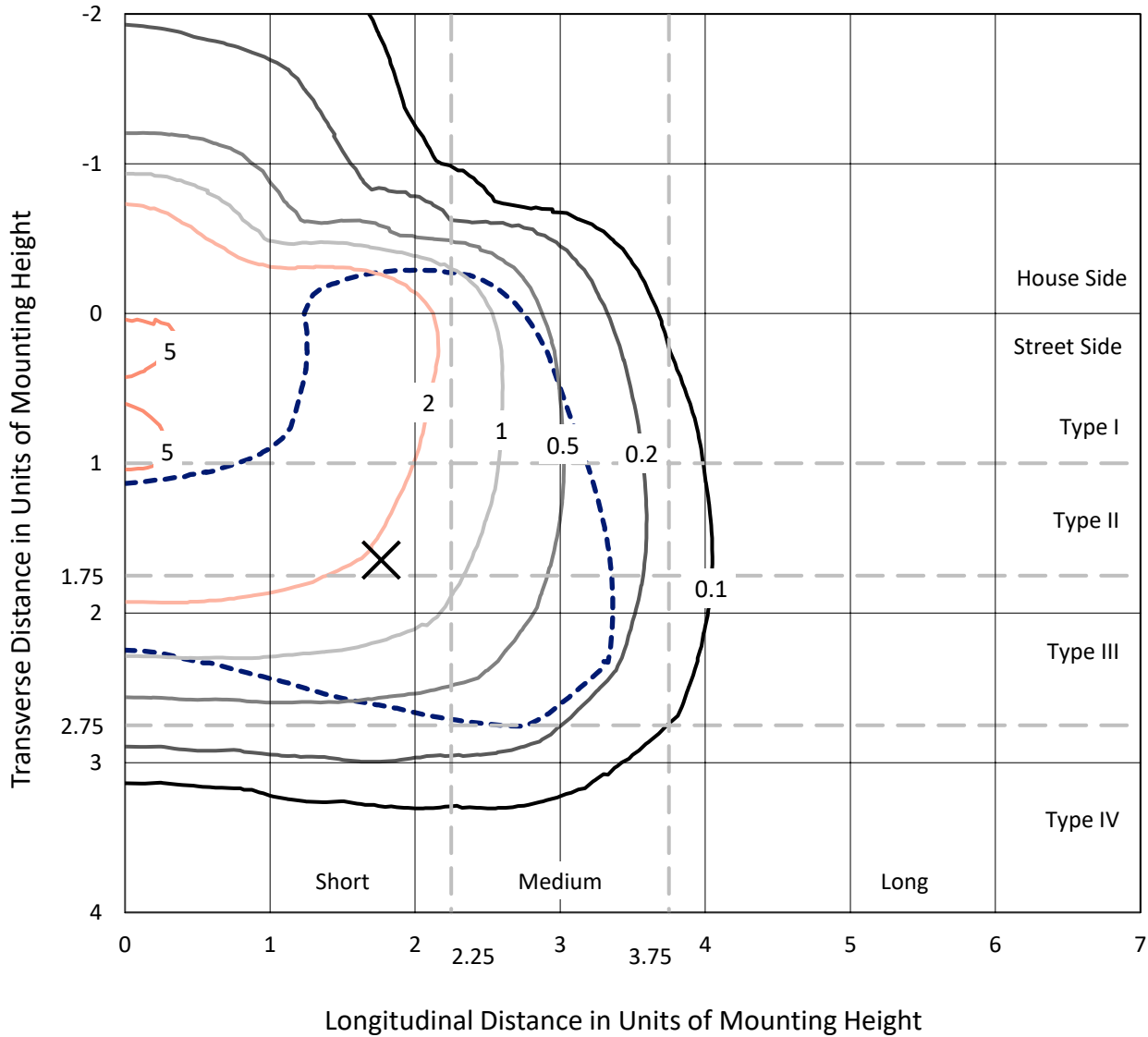
Input Watts (W): 269.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

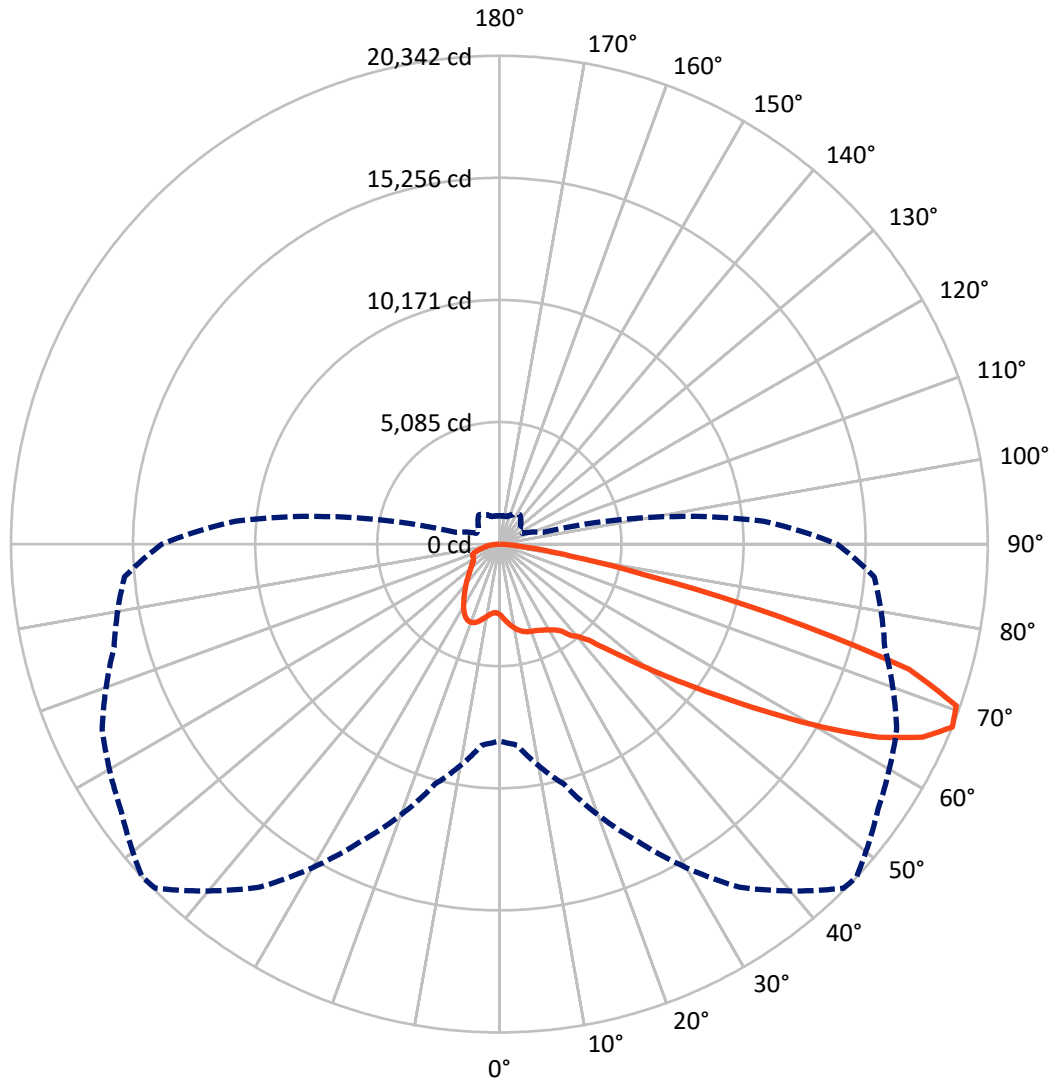
✕ Max cd
 - - - 1/2 Max cd



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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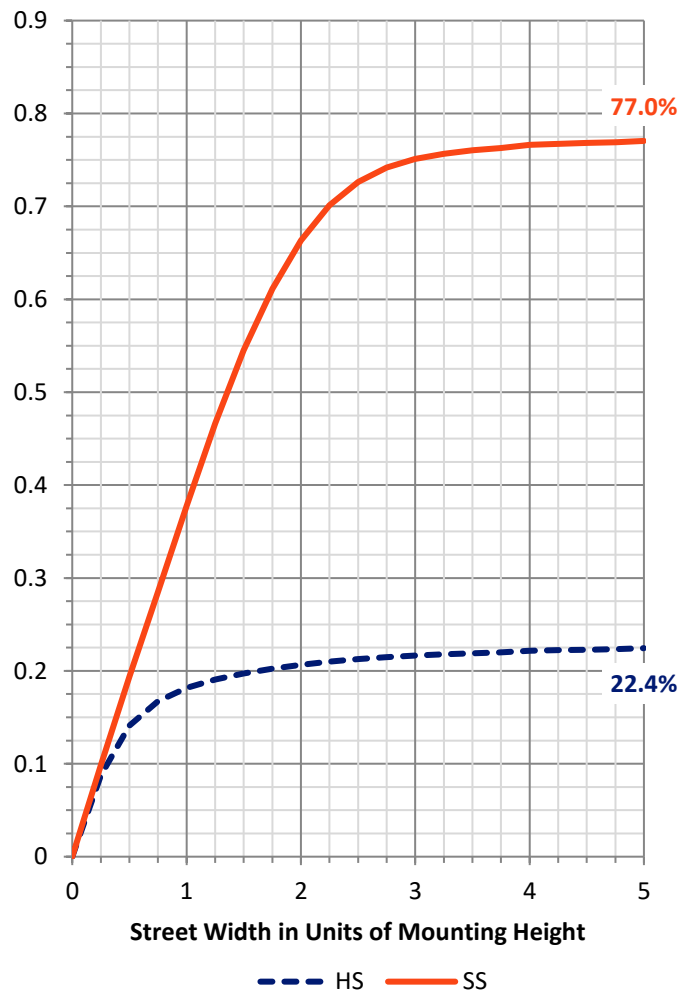
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6738.4	0.0	6738.4
	% Fixture	22.8	0.0	22.8
Street Side	Lumens	22828.0	0.0	22828.0
	% Fixture	77.2	0.0	77.2
Total	Lumens	29566.4	0.0	29566.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	299.6	1.0
10°-20°	998.0	3.4
20°-30°	1696.3	5.7
30°-40°	2484.9	8.4
40°-50°	3786.1	12.8
50°-60°	6774.1	22.9
60°-70°	9039.3	30.6
70°-80°	4087.8	13.8
80°-90°	400.5	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°	29566.4	100.0
0°-180°	29566.4	100.0

Coefficient of Utilization



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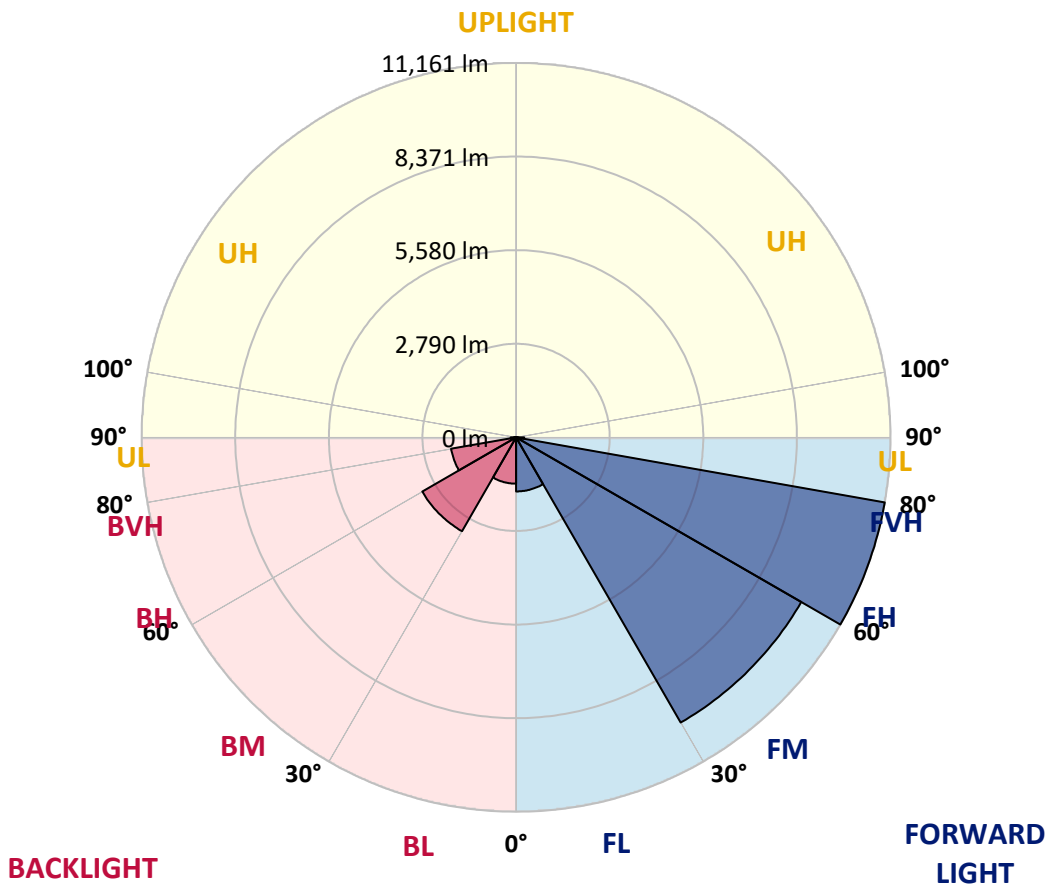
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1612.4	5.5			
FM (30°-60°)	9816.3	33.2			
FH (60°-80°)	11161.0	37.7			G4/12000
FVH (80°-90°)	238.2	0.8			G3/500
BL (0°-30°)	1381.4	4.7	B3/2500		
BM (30°-60°)	3228.7	10.9	B3/5000		
BH (60°-80°)	1966.0	6.6	B3/2500		G3/2500
BVH (80°-90°)	162.3	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°	2931.0	2931.0	2931.0	2931.0	2931.0	2931.0	2931.0	2931.0	2931.0	2931.0	2931.0
2.5°	3125.5	3136.2	3134.1	3117.0	3106.3	3087.0	3089.2	3059.2	3014.3	2984.4	2950.2
5°	3401.3	3418.4	3397.0	3369.2	3326.5	3264.5	3258.1	3189.6	3104.1	3044.3	2982.3
7.5°	3640.7	3651.4	3625.8	3578.7	3516.7	3433.4	3418.4	3337.2	3230.3	3136.2	3046.4
10°	3826.7	3839.5	3805.3	3743.3	3662.1	3578.7	3568.0	3484.7	3371.4	3260.2	3146.9
12.5°	3984.9	3989.2	3952.8	3869.5	3781.8	3696.3	3685.6	3608.7	3503.9	3390.6	3266.6
15°	4076.8	4079.0	4034.1	3942.2	3858.8	3784.0	3777.5	3711.3	3615.1	3508.2	3375.6
17.5°	4070.4	4074.7	4042.6	3961.4	3888.7	3843.8	3837.4	3794.6	3719.8	3623.6	3491.1
20°	3991.3	3995.6	3974.2	3920.8	3882.3	3869.5	3871.6	3858.8	3813.9	3734.8	3600.1
22.5°	3929.3	3935.7	3916.5	3878.0	3873.7	3903.7	3910.1	3916.5	3895.1	3824.6	3694.2
25°	3959.3	3970.0	3940.0	3886.6	3895.1	3961.4	3974.2	3995.6	3978.5	3918.6	3805.3
27.5°	4166.6	4173.0	4096.1	3987.1	3961.4	4031.9	4051.2	4085.4	4072.6	4017.0	3929.3
30°	4647.6	4643.4	4478.8	4211.5	4104.6	4132.4	4147.4	4196.6	4200.8	4164.5	4081.1
32.5°	5325.3	5304.0	5049.6	4624.1	4314.1	4245.7	4262.8	4329.1	4378.3	4339.8	4226.5
35°	6041.5	6022.3	5742.2	5244.1	4701.1	4463.8	4444.6	4495.9	4570.7	4463.8	4301.3
37.5°	6723.5	6693.5	6407.1	5791.4	5177.8	4846.5	4818.7	4767.4	4722.5	4517.2	4393.2
40°	7480.3	7446.1	7195.9	6499.0	5703.7	5139.3	5068.8	4865.7	4825.1	4694.7	4632.7
42.5°	8288.4	8288.4	8081.0	7394.8	6338.7	5558.4	5466.4	5160.7	5203.5	5118.0	5045.3
45°	9096.5	9120.0	8955.4	8296.9	7187.4	6349.4	6201.8	5767.9	5870.5	5832.0	5795.7
47.5°	9784.9	9829.7	9797.7	9218.3	8226.4	7311.4	7086.9	6635.8	6856.0	6947.9	7050.6
50°	10526.7	10575.8	10543.8	10315.0	9442.8	8476.5	8275.5	7809.5	8187.9	8463.7	8799.3
52.5°	11627.7	11698.2	11431.0	11343.3	10920.0	9799.8	9620.2	9090.1	9776.3	10233.8	10982.0
55°	12557.6	12555.5	12461.4	12662.4	12506.3	11418.2	11219.3	10738.3	11614.8	12100.1	13194.7
57.5°	12989.5	13040.8	13363.6	13932.2	14244.4	13395.6	13205.4	12713.7	13588.1	13840.3	15022.5
60°	13211.8	13275.9	13900.2	15024.7	15864.8	15554.9	15480.0	14853.6	15345.3	15315.4	16563.9
62.5°	12899.7	13027.9	14030.6	15524.9	17021.4	17724.8	17701.2	16754.2	16839.7	16546.8	17519.5
65°	11467.3	11606.3	13179.7	15274.8	17682.0	19375.2	19381.6	18475.1	17987.7	17145.4	17359.2
67.5°	8200.7	8399.5	10345.0	13667.2	17449.0	20266.6	20341.5	19255.4	18257.1	16615.2	15674.6
70°	4470.2	4615.6	6139.8	9934.5	15349.6	20052.9	20191.8	18879.2	17068.4	14372.6	12065.9
72.5°	2030.9	2078.0	2856.1	5451.5	10486.1	17260.8	17842.3	16848.2	14017.8	10616.5	7672.7
75°	930.0	951.3	1244.2	2608.2	5479.3	11550.7	11959.0	12549.1	9754.9	6704.2	3999.9
77.5°	583.6	590.0	707.6	1192.9	2732.1	5765.7	6195.4	7471.7	5712.3	3317.9	1671.8
80°	344.2	350.6	440.4	645.6	1282.7	2638.1	3046.4	2954.5	2685.1	1432.3	761.1
82.5°	173.2	179.6	254.4	367.7	699.1	1049.7	1235.7	1242.1	1000.5	776.0	429.7
85°	62.0	64.1	83.4	145.4	297.2	346.3	386.9	472.5	489.6	451.1	207.4
87.5°	0.0	0.0	2.1	4.3	8.6	34.2	36.3	68.4	143.2	160.3	83.4
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°	2931.0	2931.0	2931.0	2931.0	2931.0	2931.0	2931.0	2931.0	2931.0	2931.0	2931.0
2.5°	2939.5	2907.4	2896.8	2886.1	2869.0	2862.6	2849.7	2836.9	2836.9	2824.1	2817.7
5°	2954.5	2911.7	2883.9	2871.1	2860.4	2866.8	2866.8	2871.1	2886.1	2877.5	2881.8
7.5°	3007.9	2958.8	2920.3	2909.6	2909.6	2935.2	2952.3	2973.7	3001.5	3005.8	3005.8
10°	3102.0	3044.3	3003.7	2997.2	3007.9	3044.3	3069.9	3095.6	3129.8	3131.9	3136.2
12.5°	3204.6	3146.9	3106.3	3114.8	3125.5	3172.5	3200.3	3221.7	3255.9	3255.9	3253.8
15°	3311.5	3247.4	3213.2	3230.3	3262.3	3315.8	3320.1	3322.2	3339.3	3335.0	3332.9
17.5°	3422.7	3354.3	3328.6	3354.3	3388.5	3414.1	3392.7	3362.8	3356.4	3347.8	3343.6
20°	3531.7	3461.1	3450.5	3469.7	3480.4	3459.0	3392.7	3337.2	3311.5	3298.7	3294.4
22.5°	3625.8	3565.9	3559.5	3559.5	3506.0	3431.2	3332.9	3258.1	3223.8	3206.7	3202.5
25°	3736.9	3681.3	3670.7	3612.9	3476.1	3339.3	3206.7	3138.3	3110.5	3102.0	3104.1
27.5°	3867.3	3828.9	3794.6	3630.0	3390.6	3176.8	3027.2	2997.2	2986.5	2997.2	3003.7
30°	4027.7	3989.2	3912.2	3608.7	3253.8	2965.2	2821.9	2819.8	2851.9	2879.7	2883.9
32.5°	4158.1	4141.0	4014.8	3540.2	3061.4	2732.1	2610.3	2618.8	2676.6	2715.0	2721.5
35°	4260.7	4288.5	4100.4	3426.9	2832.6	2512.0	2415.7	2420.0	2452.1	2505.5	2507.7
37.5°	4406.1	4500.1	4177.3	3253.8	2569.7	2321.7	2234.0	2202.0	2197.7	2212.7	2216.9
40°	4699.0	4840.0	4232.9	3001.5	2315.3	2150.7	2052.3	1990.3	1936.9	1896.3	1883.4
42.5°	5141.5	5304.0	4265.0	2695.8	2088.7	1981.8	1870.6	1791.5	1697.4	1611.9	1582.0
45°	5953.9	6007.3	4265.0	2370.9	1887.7	1823.6	1712.4	1618.3	1498.6	1398.1	1376.8
47.5°	7253.7	7082.6	4269.2	2056.6	1710.3	1684.6	1588.4	1481.5	1349.0	1265.6	1252.8
50°	9211.9	8611.2	4356.9	1795.8	1562.8	1567.0	1496.5	1378.9	1259.2	1197.2	1186.5
52.5°	11431.0	10494.6	4592.1	1603.4	1438.8	1470.8	1432.3	1319.0	1212.2	1158.7	1148.0
55°	13517.5	12226.3	4793.0	1466.6	1334.0	1389.6	1387.5	1282.7	1186.5	1133.1	1126.6
57.5°	15291.9	13412.7	4763.1	1355.4	1244.2	1314.8	1346.8	1259.2	1169.4	1124.5	1118.1
60°	16395.0	14041.3	4337.7	1252.8	1175.8	1261.3	1323.3	1252.8	1177.9	1167.3	1169.4
62.5°	16873.9	13925.8	3521.0	1175.8	1130.9	1235.7	1349.0	1297.7	1257.0	1282.7	1297.7
65°	16129.9	12933.9	2591.1	1118.1	1088.2	1242.1	1408.8	1368.2	1257.0	1274.1	1280.6
67.5°	14064.8	11009.8	1872.7	1060.4	1034.7	1261.3	1494.3	1357.5	1184.4	1184.4	1171.5
70°	10135.5	7918.5	1359.7	1002.6	981.3	1233.5	1498.6	1284.8	1101.0	1094.6	1062.5
72.5°	6099.2	4671.2	1060.4	938.5	900.0	1094.6	1404.6	1199.3	1019.7	966.3	927.8
75°	3168.3	2340.9	889.3	868.0	771.8	927.8	1284.8	1066.8	872.2	825.2	803.8
77.5°	1357.5	1094.6	763.2	773.9	641.3	780.3	1036.8	923.5	773.9	714.0	694.8
80°	669.1	622.1	602.9	620.0	513.1	602.9	893.6	808.1	656.3	587.9	560.1
82.5°	382.7	363.4	434.0	440.4	365.6	504.5	754.7	684.1	543.0	468.2	423.3
85°	177.4	190.3	263.0	265.1	226.6	346.3	493.8	384.8	288.6	239.4	228.7
87.5°	70.5	83.4	115.4	113.3	66.3	64.1	42.8	23.5	19.2	17.1	15.0
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)