

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: P642988

Luminaire Tested: GWS-SA6E-722-U-SL4-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P642988
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-35)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SAGE-722-U-SL4-W
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS
Light Source: (96) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31667.4 lumens
Efficiency: N/A
Efficacy: 97.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

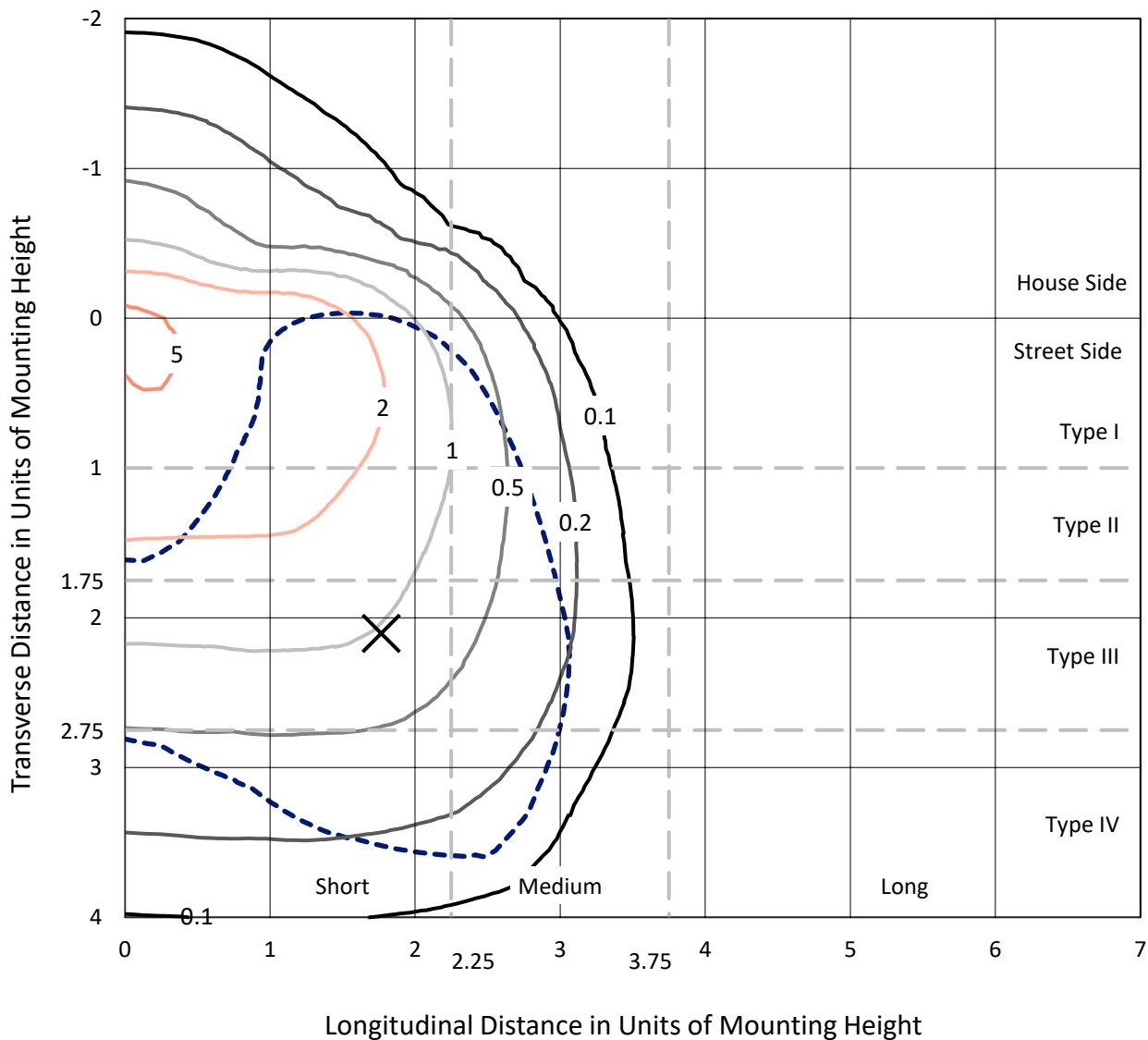
Input Watts (W): 323.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

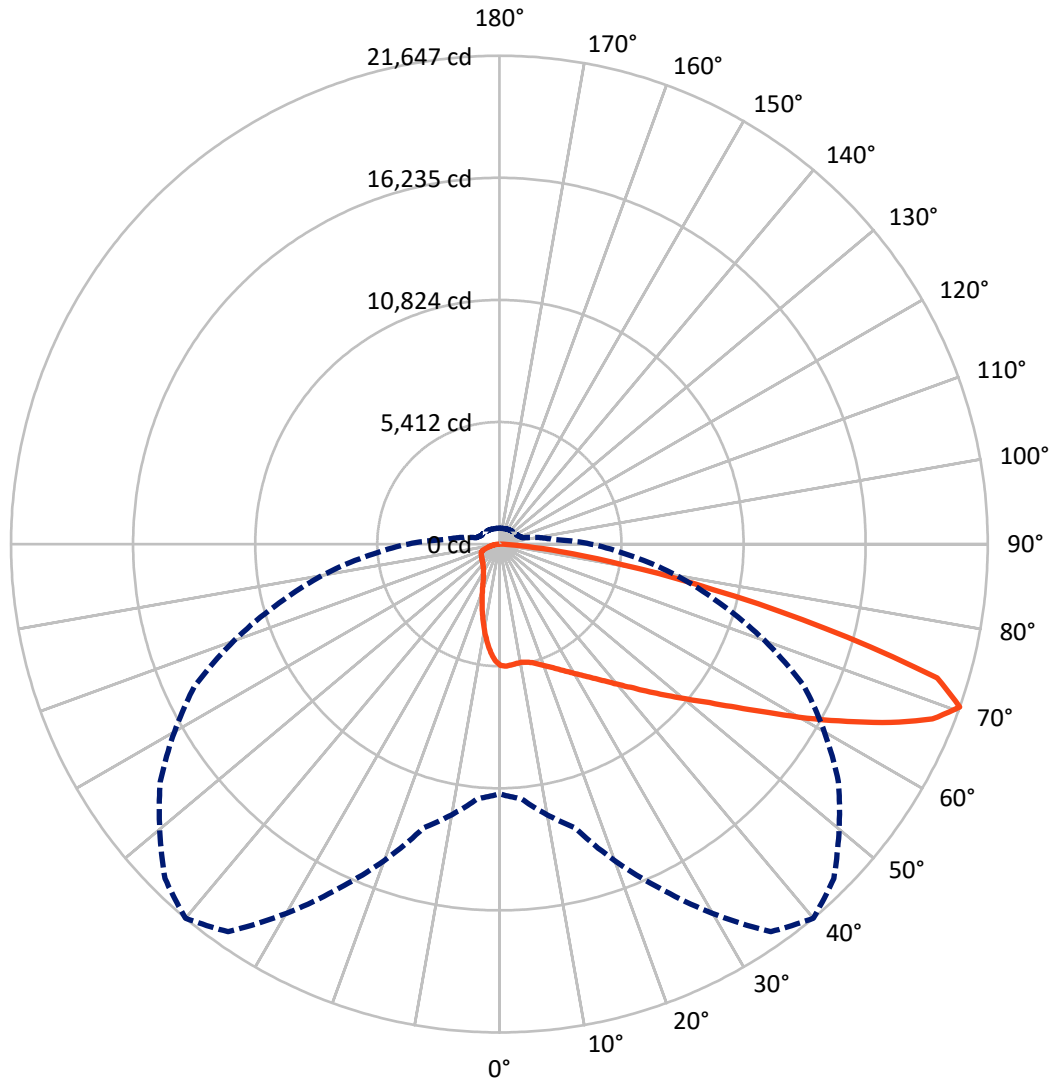
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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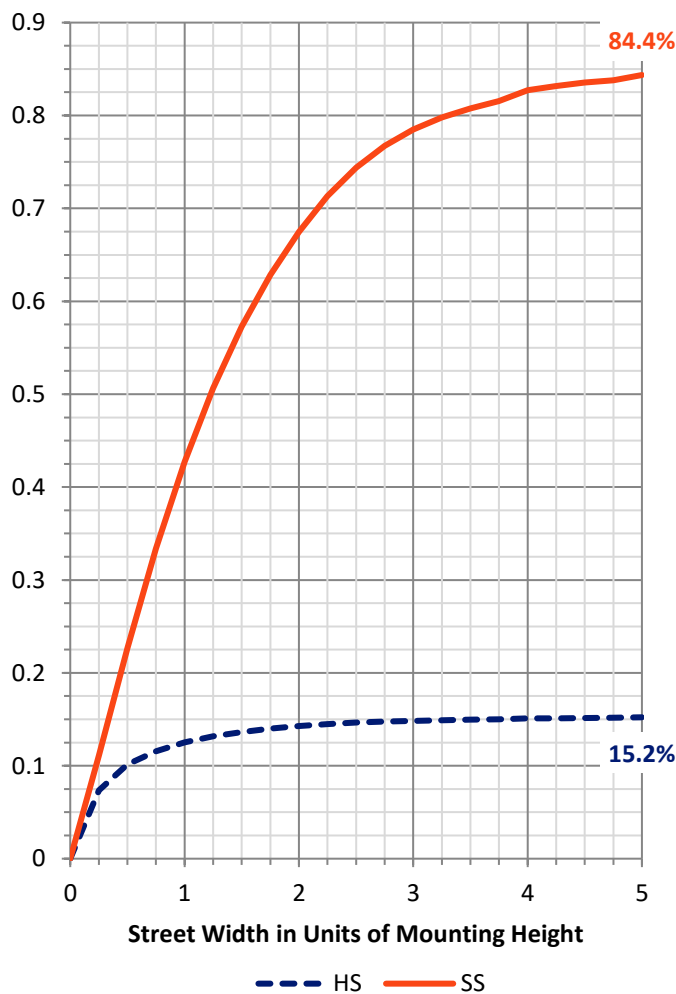
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4877.6	0.0	4877.6
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	26789.8	0.0	26789.8
	% Fixture	84.6	0.0	84.6
Total	Lumens	31667.4	0.0	31667.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	475.1	1.5
10°-20°	1238.3	3.9
20°-30°	1944.3	6.1
30°-40°	2923.3	9.2
40°-50°	4512.2	14.2
50°-60°	6701.0	21.2
60°-70°	8446.5	26.7
70°-80°	4884.6	15.4
80°-90°	542.1	1.7
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°	31667.4	100.0
0°-180°	31667.4	100.0

Coefficient of Utilization



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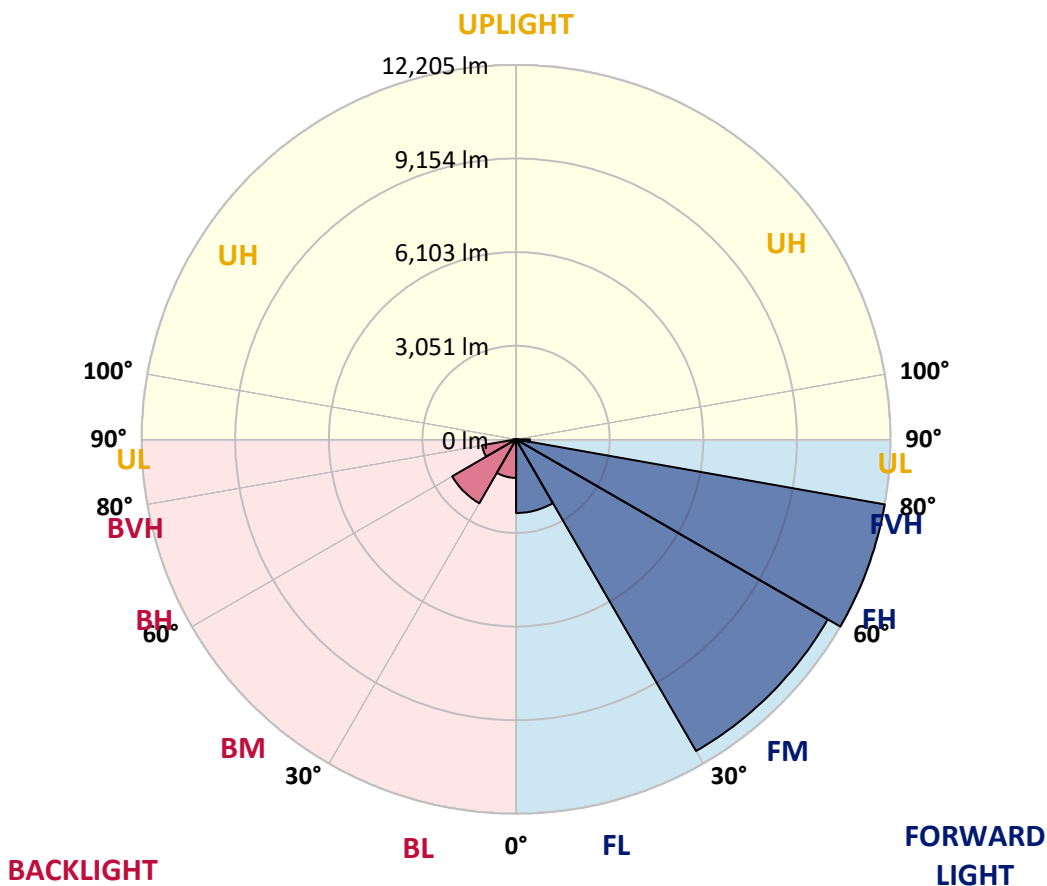
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2400.6	7.6			
FM (30°-60°)	11732.4	37.0			
FH (60°-80°)	12205.3	38.5			G5
FVH (80°-90°)	451.5	1.4			G3/500
BL (0°-30°)	1257.0	4.0	B3/2500		
BM (30°-60°)	2404.2	7.6	B2/2500		
BH (60°-80°)	1125.7	3.6	B3/2500		G3/2500
BVH (80°-90°)	90.6	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	5377.5	5377.5	5377.5	5377.5	5377.5	5377.5	5377.5	5377.5	5377.5	5377.5	5377.5
2.5°	5410.6	5420.0	5427.1	5436.6	5431.9	5417.7	5429.5	5429.5	5403.5	5375.1	5349.1
5°	5417.7	5429.5	5427.1	5424.8	5405.9	5382.2	5382.2	5368.0	5323.1	5278.2	5235.7
7.5°	5403.5	5401.1	5398.8	5391.7	5370.4	5344.4	5339.7	5311.3	5252.2	5190.8	5129.3
10°	5339.7	5337.3	5344.4	5360.9	5356.2	5332.6	5332.6	5306.6	5238.0	5162.4	5082.0
12.5°	5287.7	5287.7	5316.0	5360.9	5377.5	5368.0	5370.4	5351.5	5273.5	5183.7	5089.1
15°	5294.8	5297.1	5358.6	5431.9	5462.6	5455.5	5457.9	5436.6	5349.1	5259.3	5131.7
17.5°	5342.0	5353.9	5460.2	5561.9	5602.0	5592.6	5576.0	5540.6	5441.3	5339.7	5183.7
20°	5441.3	5460.2	5597.3	5725.0	5772.2	5751.0	5722.6	5651.7	5542.9	5431.9	5240.4
22.5°	5637.5	5649.3	5800.6	5925.9	5963.7	5937.7	5881.0	5779.3	5654.0	5538.2	5308.9
25°	5914.1	5928.2	6072.4	6188.2	6178.8	6148.1	6070.1	5944.8	5795.9	5673.0	5408.2
27.5°	6242.6	6266.3	6408.1	6500.3	6438.8	6393.9	6306.4	6155.2	5987.3	5876.2	5559.5
30°	6601.9	6611.4	6731.9	6824.1	6729.5	6668.1	6561.7	6398.6	6247.3	6164.6	5786.4
32.5°	6949.4	6958.8	7062.8	7114.8	7015.6	6970.6	6878.5	6705.9	6599.5	6554.6	6124.4
35°	7315.7	7313.4	7398.5	7443.4	7341.7	7322.8	7228.3	7095.9	7077.0	7136.1	6618.4
37.5°	7682.1	7660.9	7705.8	7764.9	7708.1	7727.0	7665.6	7620.7	7693.9	7847.6	7275.6
40°	7975.2	7975.2	8022.5	8095.8	8114.7	8197.4	8162.0	8221.1	8457.4	8823.8	8088.7
42.5°	8235.2	8237.6	8336.9	8450.3	8587.4	8715.1	8743.4	8897.1	9386.4	9960.8	9109.8
45°	8507.1	8509.4	8644.2	8809.6	9100.4	9343.8	9400.6	9745.7	10445.3	11145.0	10218.4
47.5°	8821.4	8795.4	8982.2	9258.7	9672.4	10022.2	10168.8	10658.1	11542.1	12402.5	11263.2
50°	9176.0	9121.6	9329.6	9807.1	10317.7	10797.5	11043.4	11603.6	12719.2	13563.1	12246.5
52.5°	9575.5	9544.7	9762.2	10343.7	11123.7	11676.8	12010.1	12745.2	13863.3	14719.0	13026.5
55°	10071.9	9998.6	10313.0	11052.8	12069.2	12773.6	13168.3	13875.1	15113.7	15768.4	13622.2
57.5°	10615.5	10535.1	10955.9	11939.2	13298.3	14071.3	14565.3	15146.8	16290.8	16572.1	13972.0
60°	11201.7	11175.7	11674.5	12979.2	14763.9	15662.1	16019.0	16546.1	17314.3	17037.8	13884.6
62.5°	11738.3	11728.8	12454.5	14106.7	16316.8	17304.9	17588.5	17728.0	18051.8	17007.0	13189.6
65°	12303.2	12383.6	13364.5	15413.9	18096.7	19065.9	19184.0	18829.5	18300.0	16201.0	11766.7
67.5°	12374.1	12530.1	13936.6	16638.3	19784.4	20699.2	20604.6	19247.9	17567.2	13957.8	9223.3
70°	11067.0	11338.8	13024.2	16825.0	20973.4	21647.0	20963.9	18347.3	14908.1	10112.0	5800.6
72.5°	9246.9	9480.9	10970.1	14347.8	19439.3	20297.4	19373.1	15529.7	10535.1	5800.6	2954.7
75°	7197.6	7469.4	8842.7	11405.0	14553.5	14896.2	14432.9	10830.6	5791.1	2392.1	1342.6
77.5°	4391.8	4588.0	5656.4	7727.0	10183.0	9670.0	8195.1	6072.4	2541.0	1146.4	829.7
80°	1943.0	2063.5	2786.8	4150.7	5883.3	5561.9	4384.7	2593.0	1389.9	728.0	579.1
82.5°	1042.4	1120.4	1373.3	1642.8	2583.6	2701.7	2191.2	1493.9	746.9	416.0	330.9
85°	458.6	503.5	624.0	595.7	848.6	834.4	841.5	1025.9	356.9	191.5	215.1
87.5°	0.0	0.0	0.0	0.0	2.4	2.4	26.0	137.1	35.5	56.7	49.6
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°	5377.5	5377.5	5377.5	5377.5	5377.5	5377.5	5377.5	5377.5	5377.5	5377.5	5377.5
2.5°	5320.8	5278.2	5266.4	5252.2	5226.2	5181.3	5148.2	5110.4	5093.8	5074.9	5077.3
5°	5188.4	5136.4	5086.7	5022.9	4942.6	4852.7	4791.3	4720.4	4682.6	4647.1	4656.5
7.5°	5074.9	4994.6	4892.9	4758.2	4614.0	4453.3	4323.3	4221.6	4153.1	4105.8	4129.4
10°	5004.0	4909.5	4732.2	4512.4	4268.9	4023.1	3836.3	3661.4	3552.7	3467.6	3462.9
12.5°	4989.8	4866.9	4609.3	4290.2	3938.0	3609.4	3335.2	3098.9	2954.7	2848.3	2888.5
15°	5004.0	4848.0	4502.9	4084.5	3640.1	3195.8	2855.4	2583.6	2411.0	2314.1	2307.0
17.5°	5020.6	4829.1	4382.4	3862.3	3328.1	2819.9	2425.2	2136.8	1959.5	1862.6	1865.0
20°	5034.7	4800.7	4240.5	3618.9	3011.4	2470.1	2061.2	1787.0	1628.6	1557.7	1569.5
22.5°	5058.4	4772.4	4089.3	3358.9	2687.6	2132.1	1772.8	1550.6	1456.1	1408.8	1411.1
25°	5103.3	4755.8	3933.2	3075.2	2368.5	1862.6	1574.2	1425.3	1366.2	1337.9	1335.5
27.5°	5195.5	4770.0	3770.2	2801.0	2080.1	1657.0	1446.6	1349.7	1309.5	1290.6	1288.2
30°	5349.1	4826.7	3628.3	2522.1	1831.9	1496.2	1359.1	1300.1	1276.4	1259.9	1257.5
32.5°	5583.1	4933.1	3474.7	2262.1	1631.0	1378.1	1290.6	1259.9	1243.3	1233.9	1233.9
35°	5937.7	5126.9	3323.4	2035.2	1475.0	1285.9	1236.2	1224.4	1210.2	1205.5	1210.2
37.5°	6448.3	5436.6	3186.3	1836.6	1363.9	1215.0	1177.1	1181.9	1170.0	1177.1	1184.2
40°	7095.9	5850.2	3070.5	1673.5	1281.1	1163.0	1125.1	1141.7	1134.6	1141.7	1153.5
42.5°	7916.1	6363.2	2983.0	1545.9	1222.0	1120.4	1085.0	1101.5	1096.8	1106.2	1118.0
45°	8830.9	7039.2	2942.8	1456.1	1179.5	1089.7	1051.9	1063.7	1059.0	1066.0	1077.9
47.5°	9707.8	7653.8	2978.3	1404.1	1144.0	1063.7	1023.5	1028.2	1025.9	1023.5	1030.6
50°	10464.2	8143.1	3079.9	1387.5	1120.4	1037.7	999.9	1002.2	995.1	980.9	985.7
52.5°	11081.2	8535.4	3141.4	1387.5	1108.6	1009.3	973.9	976.2	962.0	943.1	945.5
55°	11487.7	8693.8	3091.8	1385.1	1103.9	985.7	947.9	950.2	936.0	912.4	914.8
57.5°	11603.6	8540.2	2883.8	1359.1	1099.1	966.8	921.9	926.6	917.1	891.1	891.1
60°	11279.7	7977.6	2503.2	1300.1	1087.3	954.9	902.9	910.0	905.3	879.3	879.3
62.5°	10431.1	6977.7	2049.4	1210.2	1054.2	940.8	886.4	900.6	912.4	898.2	895.9
65°	8842.7	5590.2	1666.4	1111.0	1011.7	917.1	862.8	898.2	924.2	943.1	943.1
67.5°	6635.0	4001.8	1359.1	1006.9	947.9	869.9	832.0	865.1	884.0	895.9	902.9
70°	4044.3	2354.3	1070.8	886.4	855.7	798.9	770.6	737.5	711.5	706.8	709.1
72.5°	1978.4	1347.3	869.9	754.0	730.4	678.4	614.6	600.4	588.6	581.5	579.1
75°	1089.7	938.4	718.6	626.4	583.8	520.0	505.8	482.2	477.5	468.0	470.4
77.5°	770.6	739.8	593.3	508.2	444.4	411.3	418.4	401.8	401.8	394.7	392.4
80°	579.1	581.5	456.2	371.1	328.6	316.7	323.8	323.8	319.1	316.7	314.4
82.5°	366.4	413.7	307.3	238.7	234.0	236.4	234.0	231.6	236.4	229.3	226.9
85°	252.9	297.8	186.7	141.8	141.8	139.5	144.2	141.8	146.6	139.5	139.5
87.5°	56.7	132.4	68.5	42.5	44.9	42.5	44.9	47.3	52.0	54.4	54.4
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)