

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: P640802

Luminaire Tested: GWS-SA5E-750-U-T2R-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640802
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-12)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5E-750-U-T2R-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (80) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25741.9 lumens
Efficiency: N/A
Efficacy: 95.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

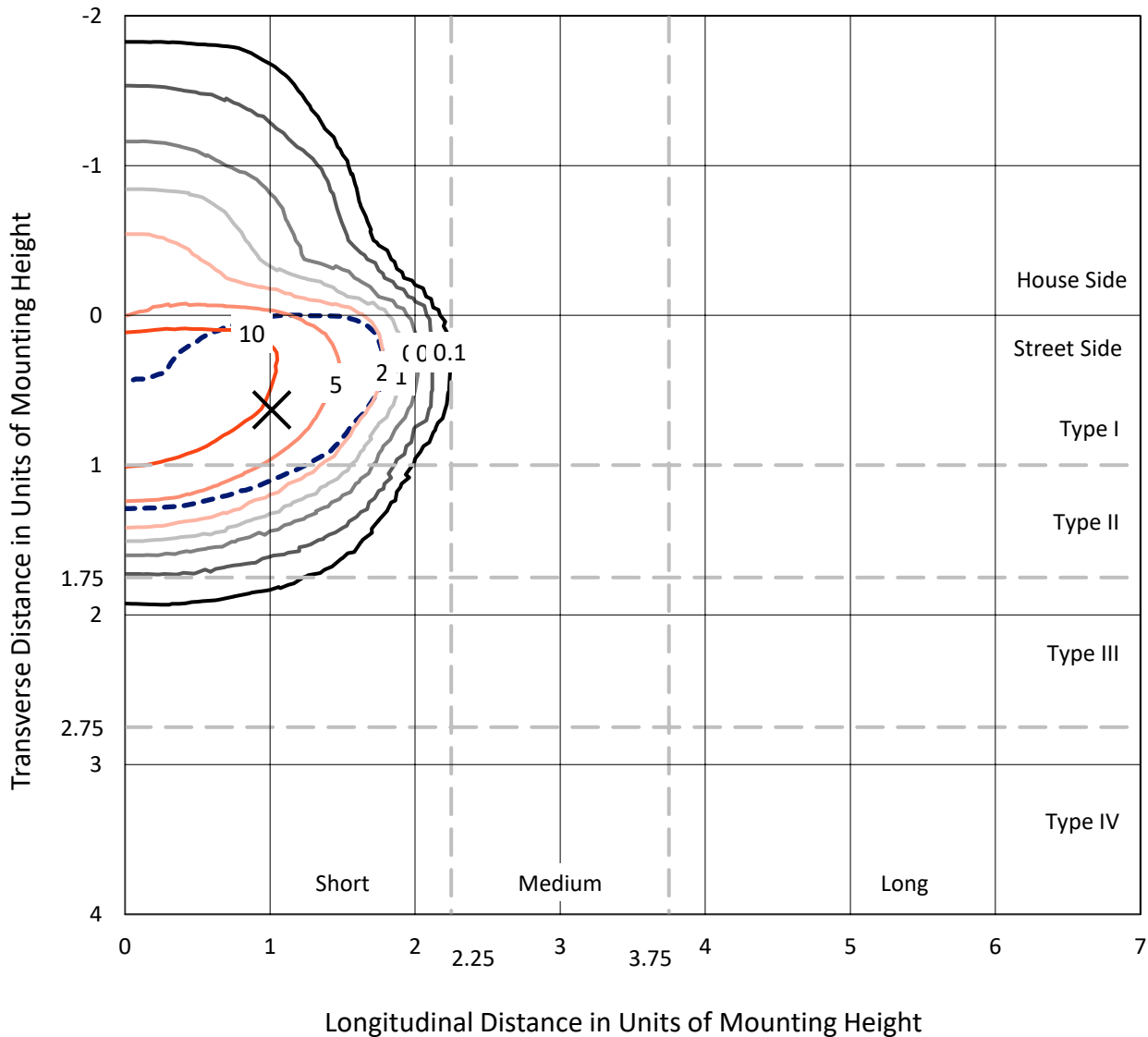
Input Watts (W): 269.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

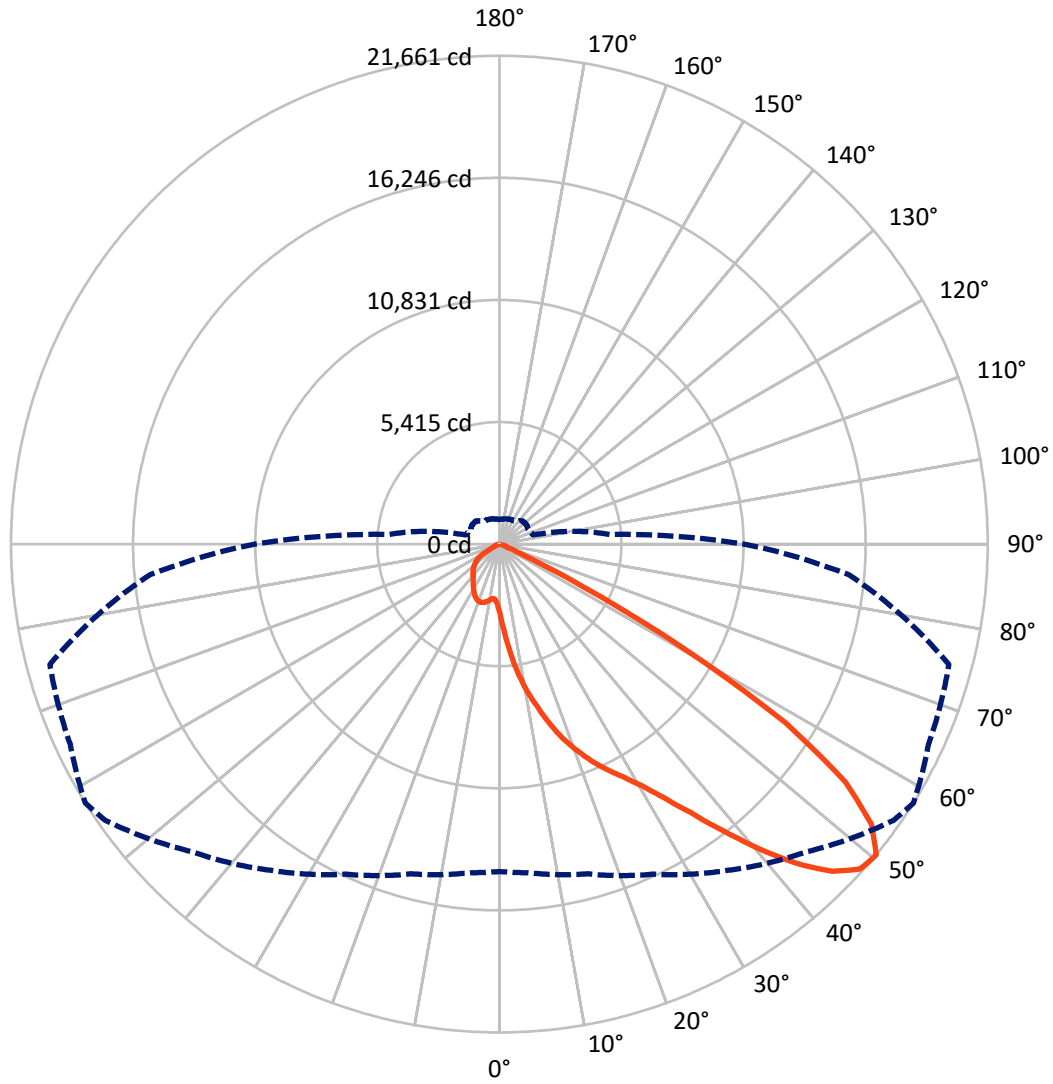
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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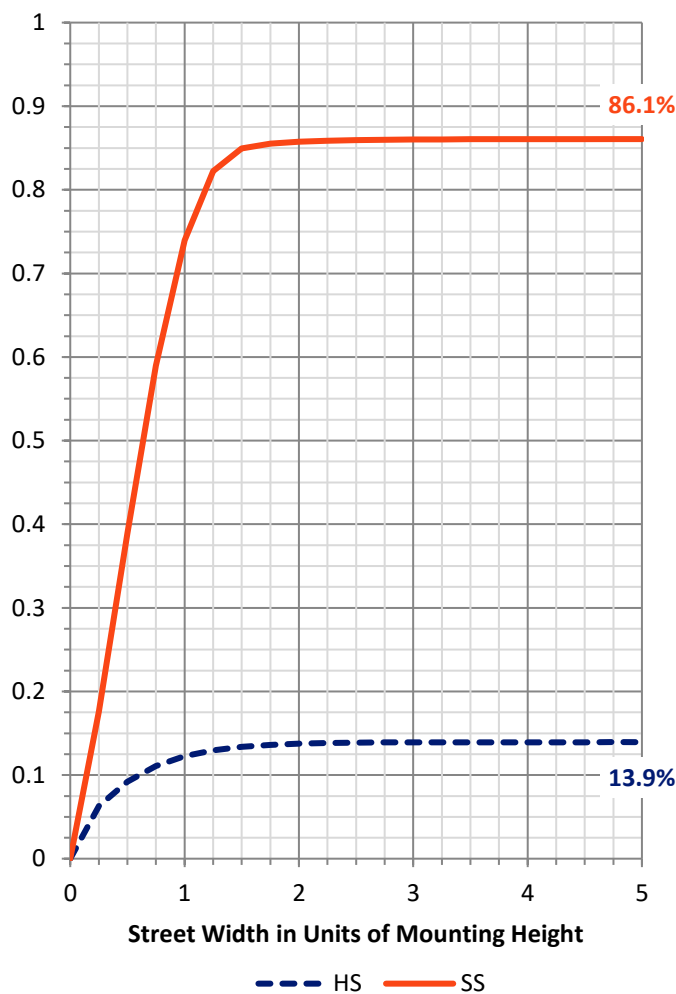
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3605.5	0.0	3605.5
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	22136.4	0.0	22136.4
	% Fixture	86.0	0.0	86.0
Total	Lumens	25741.9	0.0	25741.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	380.9	1.5
10°-20°	1508.0	5.9
20°-30°	3051.4	11.9
30°-40°	5398.3	21.0
40°-50°	7869.6	30.6
50°-60°	6307.7	24.5
60°-70°	1136.4	4.4
70°-80°	89.6	0.3
80°-90°	0.1	0.0
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°	25741.9	100.0
0°-180°	25741.9	100.0

Coefficient of Utilization



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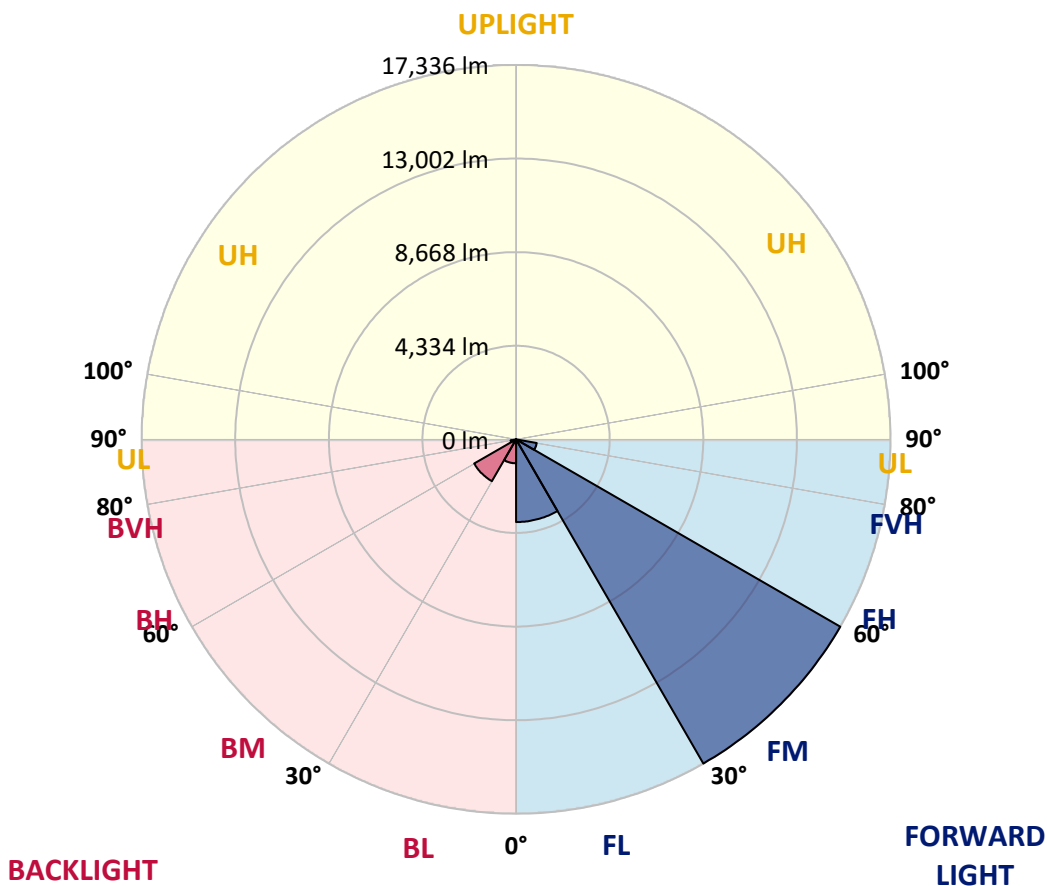
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3830.3	14.9			
FM (30°-60°)	17336.4	67.3			
FH (60°-80°)	969.7	3.8			G1/1800
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	1110.0	4.3	B3/2500		
BM (30°-60°)	2239.2	8.7	B2/2500		
BH (60°-80°)	256.3	1.0	B1/500		G1/500
BVH (80°-90°)	0.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	3074.8	3074.8	3074.8	3074.8	3074.8	3074.8	3074.8	3074.8	3074.8	3074.8	3074.8
2.5°	4550.3	4478.7	4437.4	4404.4	4258.5	4027.3	3875.9	3796.0	3663.9	3440.9	3248.2
5°	5937.7	5885.4	5789.0	5723.0	5535.8	5208.2	4869.6	4734.7	4434.7	3930.9	3479.5
7.5°	6857.1	6818.6	6782.8	6694.7	6518.5	6221.2	5846.8	5706.5	5244.0	4528.3	3787.8
10°	7564.6	7534.3	7493.0	7490.2	7352.6	7085.6	6719.5	6573.6	6072.6	5177.9	4151.2
12.5°	8186.7	8161.9	8153.7	8230.7	8142.6	7944.4	7548.1	7366.4	6835.1	5841.3	4553.1
15°	8613.4	8607.9	8643.6	8795.0	8844.6	8753.8	8420.7	8225.2	7614.1	6507.5	4996.2
17.5°	8808.8	8825.3	8894.1	9155.7	9375.9	9453.0	9196.9	9031.8	8387.6	7181.9	5469.7
20°	9141.9	9136.4	9177.7	9425.4	9695.2	9970.5	9893.4	9753.0	9169.4	7894.9	5995.5
22.5°	10080.6	10000.8	9912.7	9951.2	10047.6	10369.6	10512.8	10441.2	9976.0	8627.1	6537.8
25°	11523.0	11440.4	11156.9	10881.6	10700.0	10845.8	11041.3	11077.1	10777.0	9378.6	7104.9
27.5°	13053.6	12979.2	12659.9	12247.0	11726.7	11473.5	11619.4	11690.9	11564.3	10273.3	7707.7
30°	14487.7	14388.6	14039.0	13527.0	12924.2	12536.0	12370.9	12420.4	12494.7	11333.1	8415.2
32.5°	15732.0	15657.7	15239.2	14699.7	14118.9	13714.2	13328.8	13411.4	13593.1	12629.6	9320.8
35°	16786.3	16747.8	16304.6	15767.8	15153.9	14947.5	14617.1	14633.6	14815.3	14196.0	10424.7
37.5°	17703.0	17636.9	17235.0	16736.7	16249.5	16216.5	16125.6	16133.9	16227.5	16021.0	11693.7
40°	18281.0	18220.5	17934.2	17625.9	17279.0	17284.5	17755.3	17791.0	17683.7	17813.1	13034.3
42.5°	18498.5	18454.5	18300.3	18303.1	18267.3	18429.7	19313.3	19379.4	18994.0	19219.7	14179.4
45°	18121.4	18102.1	18113.1	18509.5	18938.9	19439.9	20587.8	20703.5	20158.4	20152.9	15074.1
47.5°	16904.7	16866.1	17188.2	17862.6	18856.4	19830.8	21358.6	21537.5	20973.2	20686.9	15635.6
50°	14520.8	14630.9	15140.1	16153.2	17664.4	19294.0	21350.4	21661.4	21003.5	20640.1	15542.0
52.5°	10518.3	10496.2	11611.1	13004.0	14842.8	17576.3	20216.2	20670.4	20268.5	20180.4	15332.8
55°	5723.0	5923.9	6675.4	8519.8	10815.6	14325.3	17625.9	18616.9	19082.1	20012.5	15710.0
57.5°	2103.1	2191.2	2661.9	3966.7	5725.7	8907.9	13463.7	14958.5	16395.4	19544.6	15646.7
60°	847.8	864.4	1051.6	1459.0	2405.9	4533.8	8076.6	9403.4	10757.8	14961.2	12007.5
62.5°	616.6	638.6	713.0	853.4	1216.7	1982.0	3482.2	4049.3	4426.4	7410.4	5915.7
65°	498.2	514.8	575.3	638.6	803.8	1065.3	1123.1	1081.8	1076.3	1915.9	1357.1
67.5°	412.9	429.4	473.5	517.5	578.1	531.3	385.4	404.7	330.3	327.6	267.0
70°	302.8	322.1	366.1	412.9	346.8	143.1	223.0	330.3	250.5	209.2	203.7
72.5°	228.5	242.2	283.5	269.8	101.9	55.1	148.6	239.5	192.7	154.2	151.4
75°	170.7	178.9	143.1	44.0	11.0	13.8	55.1	99.1	107.4	88.1	88.1
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	5.5	8.3	11.0	13.8	16.5
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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°	3074.8	3074.8	3074.8	3074.8	3074.8	3074.8	3074.8	3074.8	3074.8	3074.8	3074.8
2.5°	3138.1	3022.5	2857.4	2719.7	2615.1	2513.3	2436.2	2359.1	2356.4	2317.8	2309.6
5°	3270.3	3061.1	2758.3	2540.8	2408.7	2328.8	2273.8	2246.2	2232.5	2218.7	2213.2
7.5°	3460.2	3160.2	2741.7	2510.5	2400.4	2348.1	2309.6	2293.0	2284.8	2273.8	2271.0
10°	3694.2	3303.3	2802.3	2568.3	2472.0	2422.4	2381.1	2356.4	2342.6	2323.3	2317.8
12.5°	3975.0	3479.5	2898.6	2664.7	2562.8	2496.7	2441.7	2405.9	2386.6	2361.9	2356.4
15°	4277.8	3669.4	3006.0	2752.8	2631.6	2546.3	2477.5	2422.4	2386.6	2356.4	2348.1
17.5°	4591.6	3862.1	3102.4	2813.3	2664.7	2562.8	2463.7	2389.4	2345.3	2306.8	2295.8
20°	4943.9	4060.3	3165.7	2824.3	2653.7	2518.8	2403.2	2309.6	2265.5	2213.2	2202.2
22.5°	5312.8	4244.7	3193.2	2799.6	2593.1	2436.2	2312.3	2216.0	2152.7	2097.6	2081.1
25°	5670.7	4409.9	3179.4	2730.7	2502.3	2320.6	2193.9	2094.8	2026.0	1971.0	1957.2
27.5°	6050.6	4547.5	3129.9	2628.9	2378.4	2193.9	2072.8	1987.5	1924.2	1863.6	1849.9
30°	6477.2	4674.2	3050.1	2505.0	2232.5	2064.6	1971.0	1913.2	1844.3	1781.0	1761.8
32.5°	6992.0	4787.0	2934.4	2356.4	2103.1	1951.7	1899.4	1855.4	1775.5	1709.5	1695.7
35°	7581.1	4880.6	2788.5	2202.2	1976.5	1880.1	1869.1	1811.3	1706.7	1629.6	1613.1
37.5°	8263.8	4971.5	2615.1	2050.8	1882.9	1847.1	1849.9	1750.8	1624.1	1530.5	1519.5
40°	8998.8	5062.3	2422.4	1918.7	1797.5	1827.8	1803.1	1662.7	1456.2	1365.4	1354.4
42.5°	9764.0	5161.4	2227.0	1794.8	1726.0	1753.5	1717.7	1486.5	1337.8	1291.0	1285.5
45°	10455.0	5279.8	2015.0	1670.9	1654.4	1646.1	1585.6	1346.1	1282.8	1249.8	1247.0
47.5°	10953.2	5260.5	1789.3	1552.6	1577.3	1549.8	1365.4	1280.0	1227.7	1183.7	1172.7
50°	10862.4	4924.7	1555.3	1420.4	1478.2	1453.5	1227.7	1203.0	1156.2	1109.4	1092.8
52.5°	10631.1	4467.7	1351.6	1280.0	1370.9	1313.1	1134.1	1109.4	1068.1	1007.5	988.2
55°	10755.0	4038.3	1191.9	1167.2	1260.8	1087.3	1029.5	991.0	946.9	880.9	872.6
57.5°	10355.9	3295.0	958.0	974.5	1114.9	927.7	902.9	842.3	768.0	724.0	718.5
60°	7168.2	1770.0	600.1	619.4	806.6	779.0	809.3	754.3	663.4	622.1	613.9
62.5°	3292.3	710.2	327.6	313.8	423.9	528.5	693.7	688.2	575.3	509.3	503.8
65°	798.3	324.8	234.0	220.2	239.5	316.6	451.5	542.3	465.2	388.1	379.9
67.5°	258.8	264.3	214.7	201.0	212.0	236.7	269.8	300.1	297.3	272.5	267.0
70°	206.5	239.5	198.2	181.7	181.7	189.9	181.7	145.9	126.6	137.6	143.1
72.5°	154.2	181.7	156.9	140.4	134.9	132.1	112.9	82.6	57.8	52.3	49.5
75°	90.8	101.9	96.3	82.6	77.1	68.8	55.1	35.8	19.3	13.8	8.3
77.5°	16.5	19.3	22.0	16.5	13.8	11.0	8.3	2.8	0.0	0.0	0.0
80°	0.0	2.8	2.8	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)