

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: P643442

Luminaire Tested: GWS-SA6E-830-U-T2R-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P643442
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-SAGE-830-U-T2R-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (96) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23837.8 lumens
Efficiency: N/A
Efficacy: 73.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

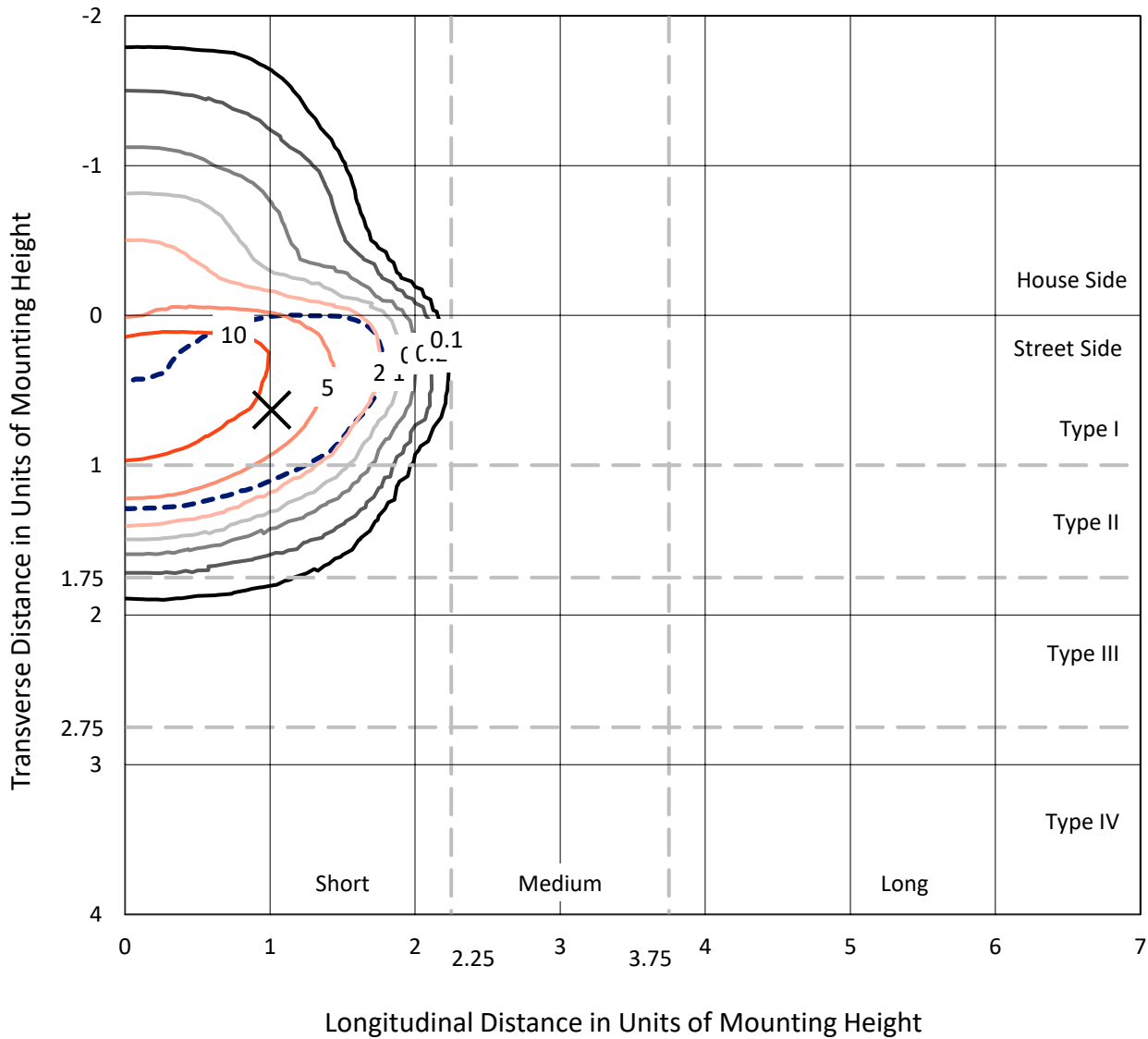
Input Watts (W): 323.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

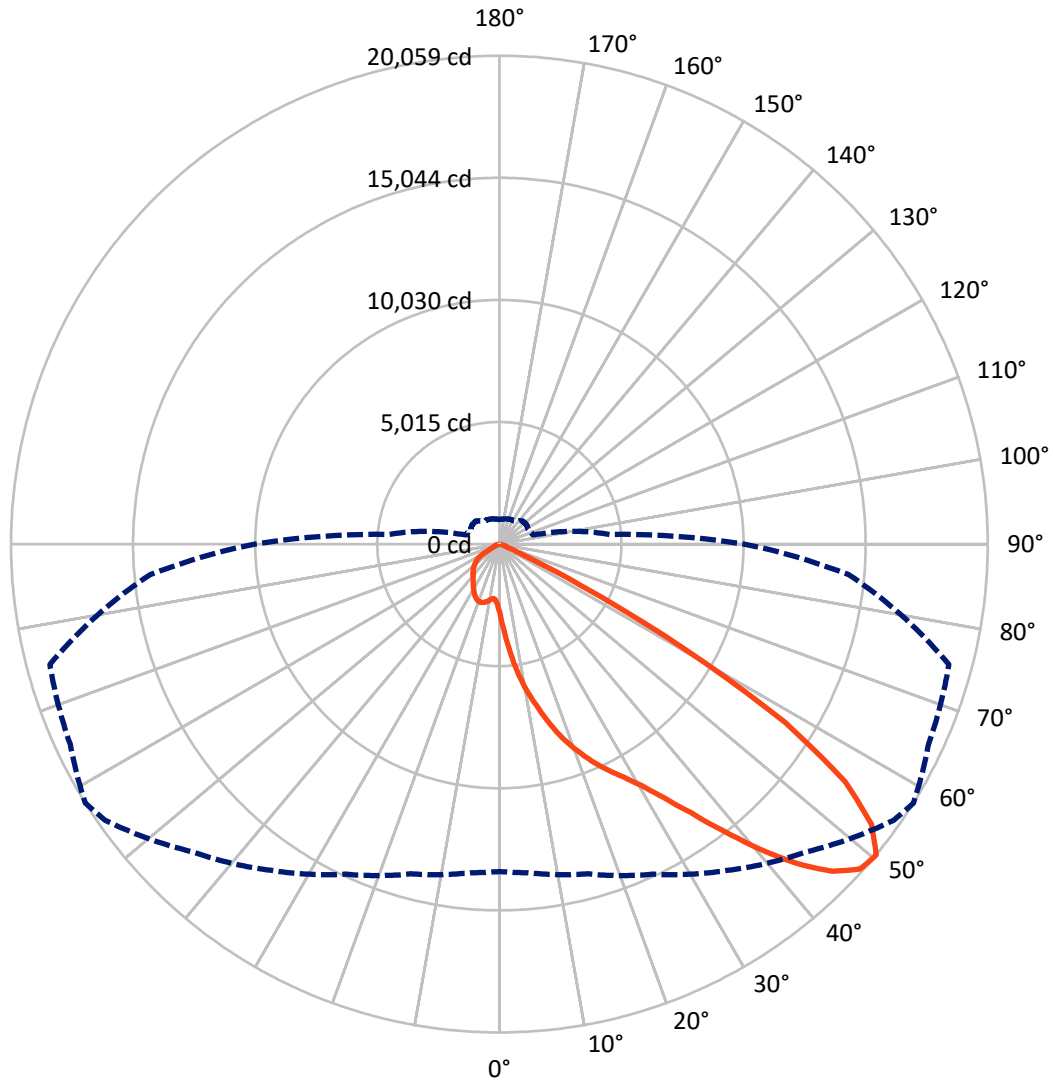
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14 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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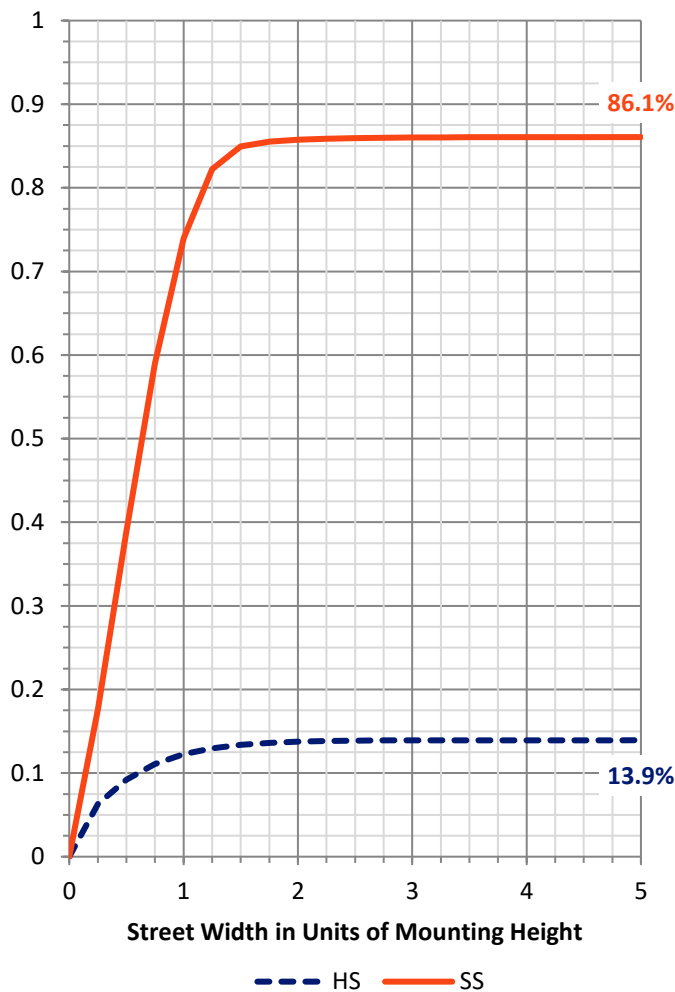
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3338.8	0.0	3338.8
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	20499.0	0.0	20499.0
	% Fixture	86.0	0.0	86.0
Total	Lumens	23837.8	0.0	23837.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	352.7	1.5
10°-20°	1396.4	5.9
20°-30°	2825.7	11.9
30°-40°	4999.0	21.0
40°-50°	7287.5	30.6
50°-60°	5841.1	24.5
60°-70°	1052.3	4.4
70°-80°	82.9	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°	23837.8	100.0
0°-180°	23837.8	100.0

Coefficient of Utilization



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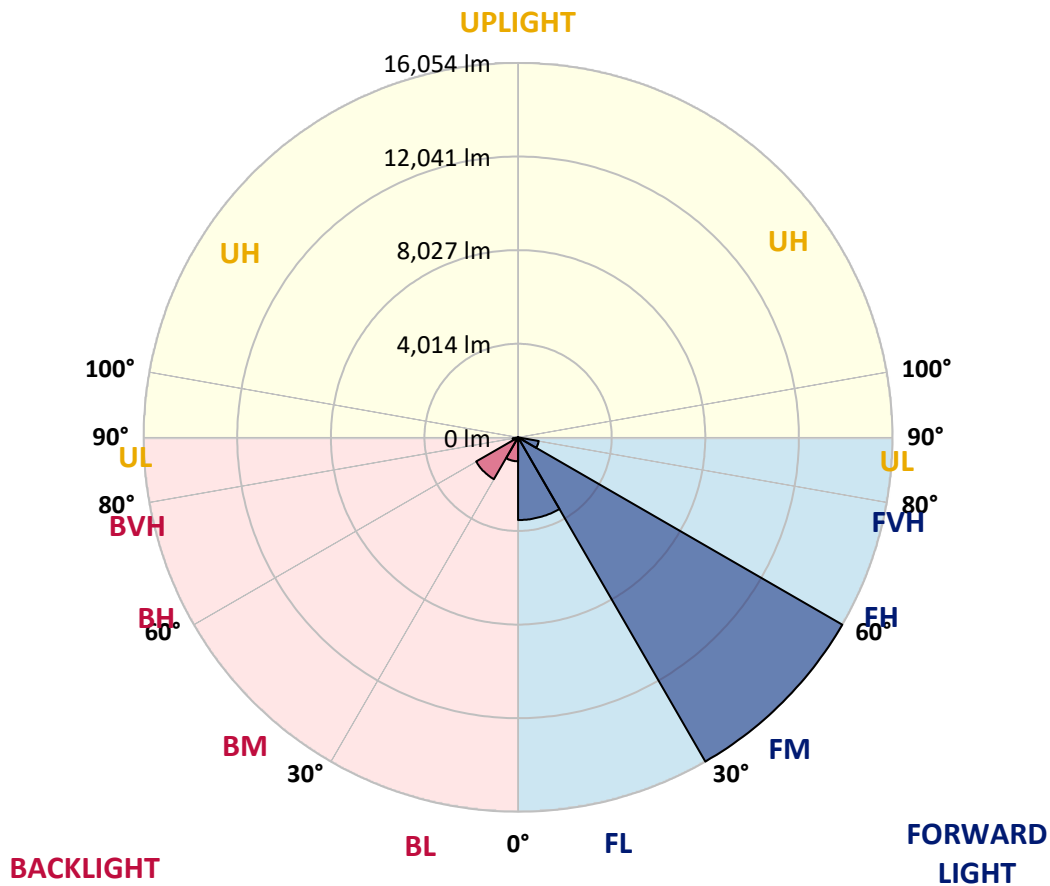
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3547.0	14.9			
FM (30°-60°)	16054.0	67.3			
FH (60°-80°)	898.0	3.8			G1/1800
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	1027.9	4.3	B3/2500		
BM (30°-60°)	2073.6	8.7	B2/2500		
BH (60°-80°)	237.3	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°	2847.4	2847.4	2847.4	2847.4	2847.4	2847.4	2847.4	2847.4	2847.4	2847.4	2847.4
2.5°	4213.7	4147.4	4109.2	4078.6	3943.5	3729.4	3589.2	3515.3	3392.9	3186.4	3008.0
5°	5498.5	5450.1	5360.8	5299.7	5126.3	4823.0	4509.4	4384.5	4106.7	3640.2	3222.1
7.5°	6349.9	6314.2	6281.1	6199.5	6036.4	5761.0	5414.4	5284.4	4856.1	4193.3	3507.6
10°	7005.0	6977.0	6938.7	6936.2	6808.7	6561.5	6222.4	6087.3	5623.4	4794.9	3844.1
12.5°	7581.1	7558.2	7550.5	7621.9	7540.3	7356.8	6989.7	6821.5	6329.5	5409.3	4216.3
15°	7976.2	7971.1	8004.3	8144.5	8190.4	8106.3	7797.8	7616.8	7050.9	6026.2	4626.7
17.5°	8157.2	8172.5	8236.3	8478.4	8682.4	8753.7	8516.7	8363.7	7767.2	6650.7	5065.1
20°	8465.7	8460.6	8498.8	8728.2	8978.1	9233.0	9161.6	9031.6	8491.2	7310.9	5552.0
22.5°	9334.9	9261.0	9179.4	9215.1	9304.3	9602.6	9735.1	9668.9	9238.1	7989.0	6054.2
25°	10670.7	10594.2	10331.6	10076.7	9908.5	10043.6	10224.6	10257.7	9979.9	8684.9	6579.3
27.5°	12088.0	12019.2	11723.5	11341.1	10859.3	10624.8	10759.9	10826.2	10708.9	9513.4	7137.6
30°	13416.1	13324.3	13000.6	12526.5	11968.2	11608.8	11455.8	11501.7	11570.5	10494.8	7792.7
32.5°	14568.3	14499.5	14112.0	13612.4	13074.5	12699.8	12342.9	12419.4	12587.6	11695.4	8631.4
35°	15544.6	15508.9	15098.5	14601.4	14033.0	13841.8	13535.9	13551.2	13719.4	13145.9	9653.6
37.5°	16393.5	16332.3	15960.1	15498.7	15047.5	15017.0	14932.8	14940.5	15027.2	14836.0	10828.7
40°	16928.8	16872.7	16607.6	16322.1	16000.9	16006.0	16441.9	16475.1	16375.6	16495.5	12070.2
42.5°	17130.2	17089.4	16946.7	16949.2	16916.1	17066.5	17884.7	17945.9	17589.0	17798.1	13130.6
45°	16781.0	16763.1	16773.3	17140.4	17538.1	18002.0	19065.0	19172.0	18667.3	18662.2	13959.1
47.5°	15654.2	15618.6	15916.8	16541.3	17461.6	18364.0	19778.7	19944.4	19421.9	19156.8	14479.1
50°	13446.7	13548.7	14020.2	14958.3	16357.8	17866.9	19771.1	20059.1	19449.9	19113.4	14392.4
52.5°	9740.2	9719.9	10752.3	12042.1	13744.9	16276.2	18720.9	19141.5	18769.3	18687.7	14198.7
55°	5299.7	5485.7	6181.7	7889.6	10015.6	13265.7	16322.1	17239.8	17670.6	18532.2	14547.9
57.5°	1947.5	2029.1	2465.0	3673.3	5302.2	8249.0	12467.8	13852.0	15182.7	18098.9	14489.3
60°	785.1	800.4	973.8	1351.0	2227.9	4198.4	7479.2	8707.8	9962.0	13854.6	11119.3
62.5°	571.0	591.4	660.2	790.2	1126.7	1835.4	3224.7	3749.8	4099.0	6862.3	5478.1
65°	461.4	476.7	532.8	591.4	744.3	986.5	1040.0	1001.8	996.7	1774.2	1256.7
67.5°	382.4	397.7	438.5	479.2	535.3	492.0	356.9	374.7	305.9	303.3	247.3
70°	280.4	298.2	339.0	382.4	321.2	132.6	206.5	305.9	232.0	193.7	188.6
72.5°	211.6	224.3	262.6	249.8	94.3	51.0	137.7	221.8	178.4	142.8	140.2
75°	158.0	165.7	132.6	40.8	10.2	12.7	51.0	91.8	99.4	81.6	81.6
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	5.1	7.6	10.2	12.7	15.3
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°	2847.4	2847.4	2847.4	2847.4	2847.4	2847.4	2847.4	2847.4	2847.4	2847.4	2847.4
2.5°	2906.0	2799.0	2646.0	2518.5	2421.7	2327.4	2256.0	2184.6	2182.1	2146.4	2138.7
5°	3028.4	2834.6	2554.2	2352.9	2230.5	2156.6	2105.6	2080.1	2067.3	2054.6	2049.5
7.5°	3204.3	2926.4	2538.9	2324.8	2222.8	2174.4	2138.7	2123.4	2115.8	2105.6	2103.0
10°	3420.9	3059.0	2595.0	2378.3	2289.1	2243.2	2205.0	2182.1	2169.3	2151.5	2146.4
12.5°	3681.0	3222.1	2684.2	2467.6	2373.2	2312.1	2261.1	2227.9	2210.1	2187.2	2182.1
15°	3961.4	3398.0	2783.7	2549.1	2437.0	2358.0	2294.2	2243.2	2210.1	2182.1	2174.4
17.5°	4252.0	3576.4	2872.9	2605.2	2467.6	2373.2	2281.5	2212.6	2171.9	2136.2	2126.0
20°	4578.2	3760.0	2931.5	2615.4	2457.4	2332.5	2225.4	2138.7	2097.9	2049.5	2039.3
22.5°	4919.8	3930.8	2957.0	2592.5	2401.3	2256.0	2141.3	2052.1	1993.4	1942.4	1927.1
25°	5251.2	4083.7	2944.3	2528.7	2317.2	2148.9	2031.7	1939.9	1876.2	1825.2	1812.4
27.5°	5603.0	4211.2	2898.4	2434.4	2202.5	2031.7	1919.5	1840.5	1781.8	1725.8	1713.0
30°	5998.1	4328.4	2824.4	2319.7	2067.3	1911.9	1825.2	1771.6	1707.9	1649.3	1631.4
32.5°	6474.8	4432.9	2717.4	2182.1	1947.5	1807.3	1758.9	1718.1	1644.2	1583.0	1570.3
35°	7020.3	4519.6	2582.3	2039.3	1830.3	1741.1	1730.9	1677.3	1580.5	1509.1	1493.8
37.5°	7652.5	4603.7	2421.7	1899.1	1743.6	1710.5	1713.0	1621.3	1504.0	1417.3	1407.1
40°	8333.1	4687.9	2243.2	1776.7	1664.6	1692.6	1669.7	1539.7	1348.5	1264.4	1254.2
42.5°	9041.8	4779.6	2062.3	1662.0	1598.3	1623.8	1590.7	1376.5	1238.9	1195.5	1190.4
45°	9681.6	4889.2	1866.0	1547.3	1532.0	1524.4	1468.3	1246.5	1187.9	1157.3	1154.8
47.5°	10143.0	4871.4	1656.9	1437.7	1460.7	1435.2	1264.4	1185.3	1136.9	1096.1	1085.9
50°	10058.9	4560.4	1440.3	1315.4	1368.9	1345.9	1136.9	1114.0	1070.6	1027.3	1012.0
52.5°	9844.8	4137.2	1251.6	1185.3	1269.5	1215.9	1050.2	1027.3	989.1	933.0	915.1
55°	9959.5	3739.6	1103.8	1080.8	1167.5	1006.9	953.4	917.7	876.9	815.7	808.1
57.5°	9589.8	3051.3	887.1	902.4	1032.4	859.1	836.1	780.0	711.2	670.4	665.3
60°	6637.9	1639.1	555.7	573.6	746.9	721.4	749.4	698.5	614.3	576.1	568.5
62.5°	3048.8	657.7	303.3	290.6	392.6	489.4	642.4	637.3	532.8	471.6	466.5
65°	739.2	300.8	216.7	203.9	221.8	293.2	418.1	502.2	430.8	359.4	351.8
67.5°	239.6	244.7	198.8	186.1	196.3	219.2	249.8	277.9	275.3	252.4	247.3
70°	191.2	221.8	183.5	168.2	168.2	175.9	168.2	135.1	117.3	127.5	132.6
72.5°	142.8	168.2	145.3	130.0	124.9	122.4	104.5	76.5	53.5	48.4	45.9
75°	84.1	94.3	89.2	76.5	71.4	63.7	51.0	33.1	17.8	12.7	7.6
77.5°	15.3	17.8	20.4	15.3	12.7	10.2	7.6	2.5	0.0	0.0	0.0
80°	0.0	2.5	2.5	2.5	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)