

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: P643222

Luminaire Tested: GWS-SA6E-740-U-T2R-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P643222
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-740-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) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30007.7 lumens
Efficiency: N/A
Efficacy: 92.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

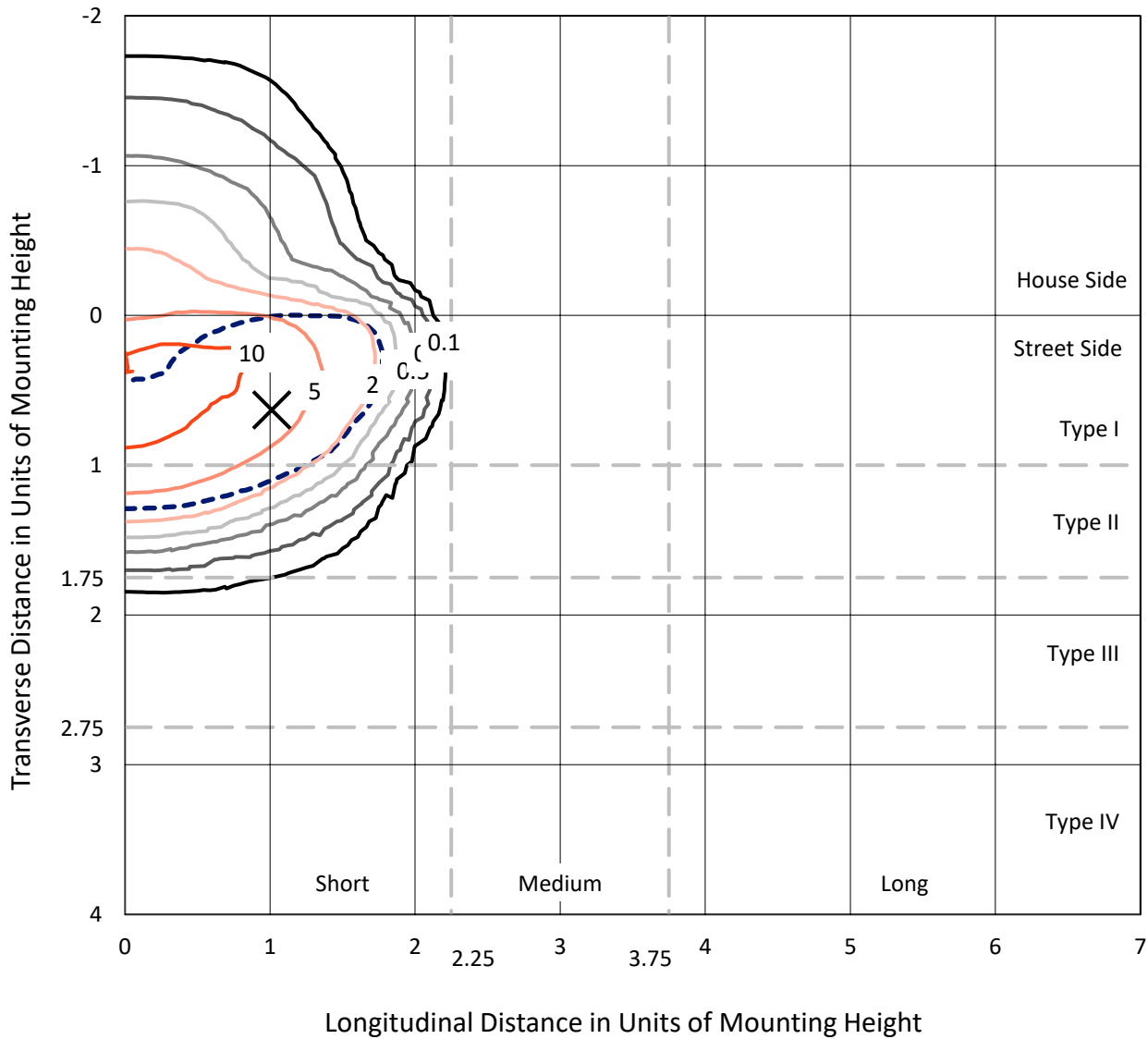
Input Watts (W): 323.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

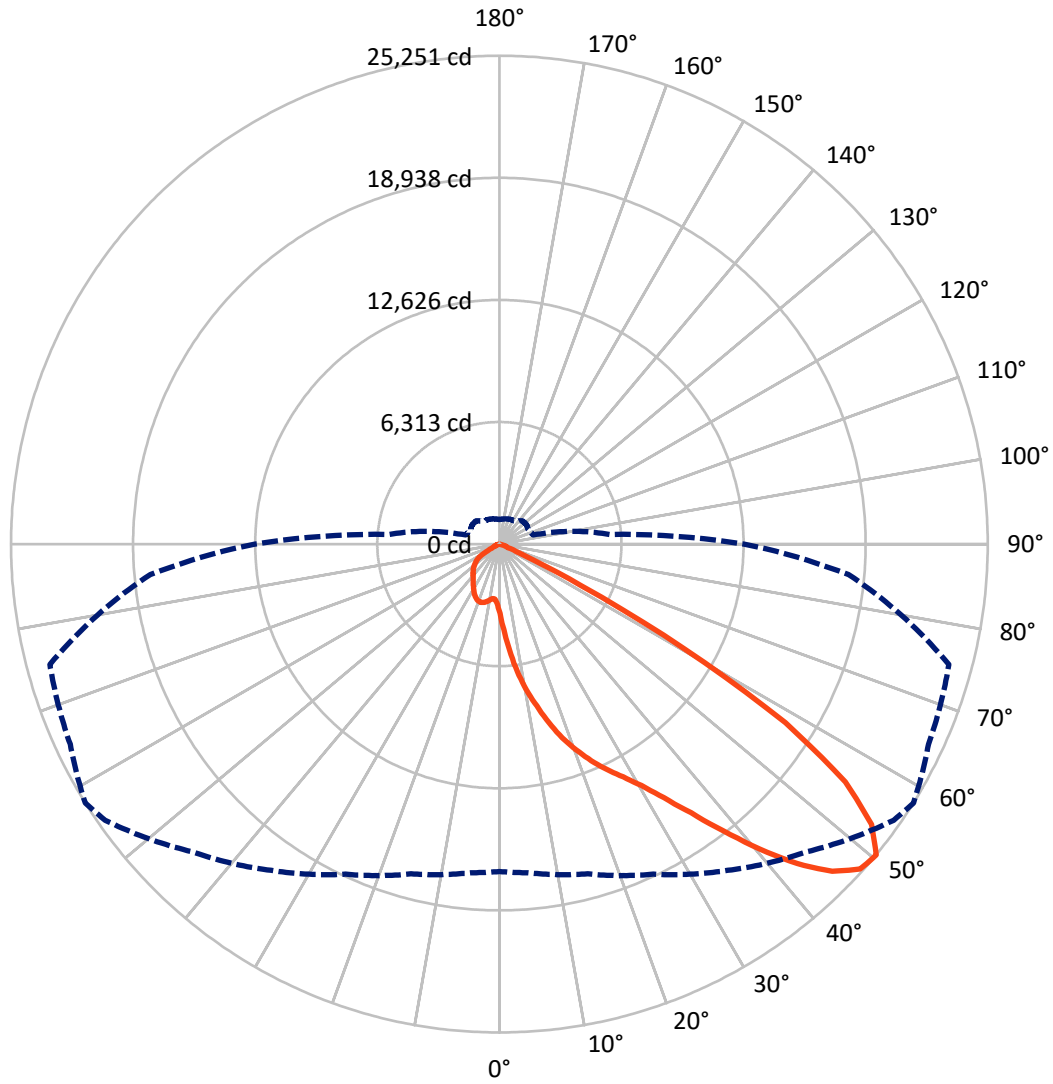
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 12.2 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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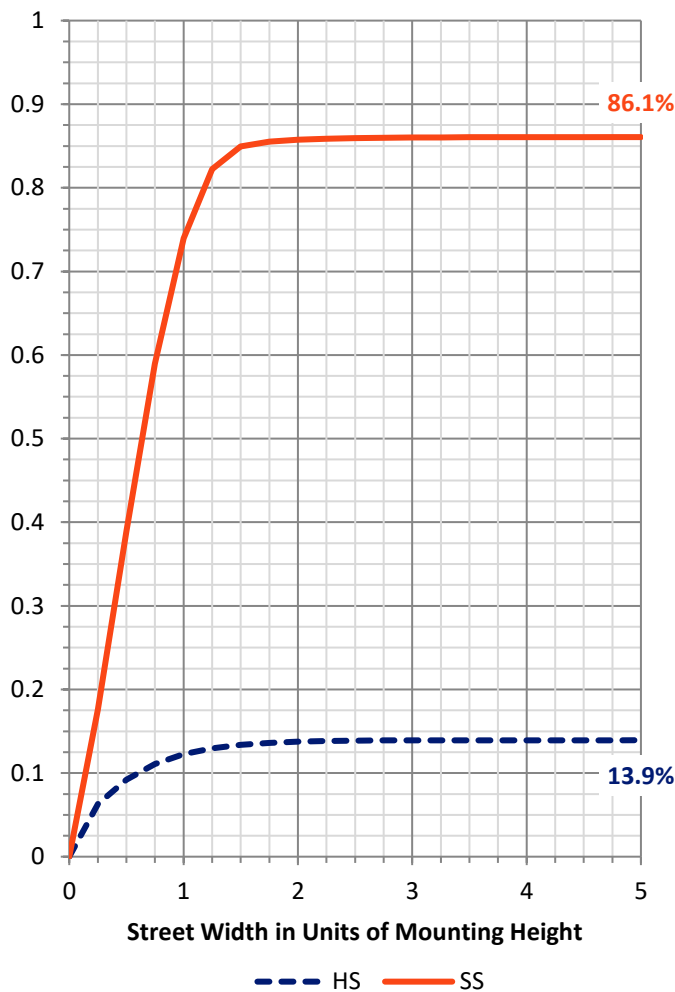
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4203.0	0.0	4203.0
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	25804.7	0.0	25804.7
	% Fixture	86.0	0.0	86.0
Total	Lumens	30007.7	0.0	30007.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	444.0	1.5
10°-20°	1757.9	5.9
20°-30°	3557.1	11.9
30°-40°	6292.9	21.0
40°-50°	9173.7	30.6
50°-60°	7353.0	24.5
60°-70°	1324.7	4.4
70°-80°	104.4	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°	30007.7	100.0
0°-180°	30007.7	100.0

Coefficient of Utilization



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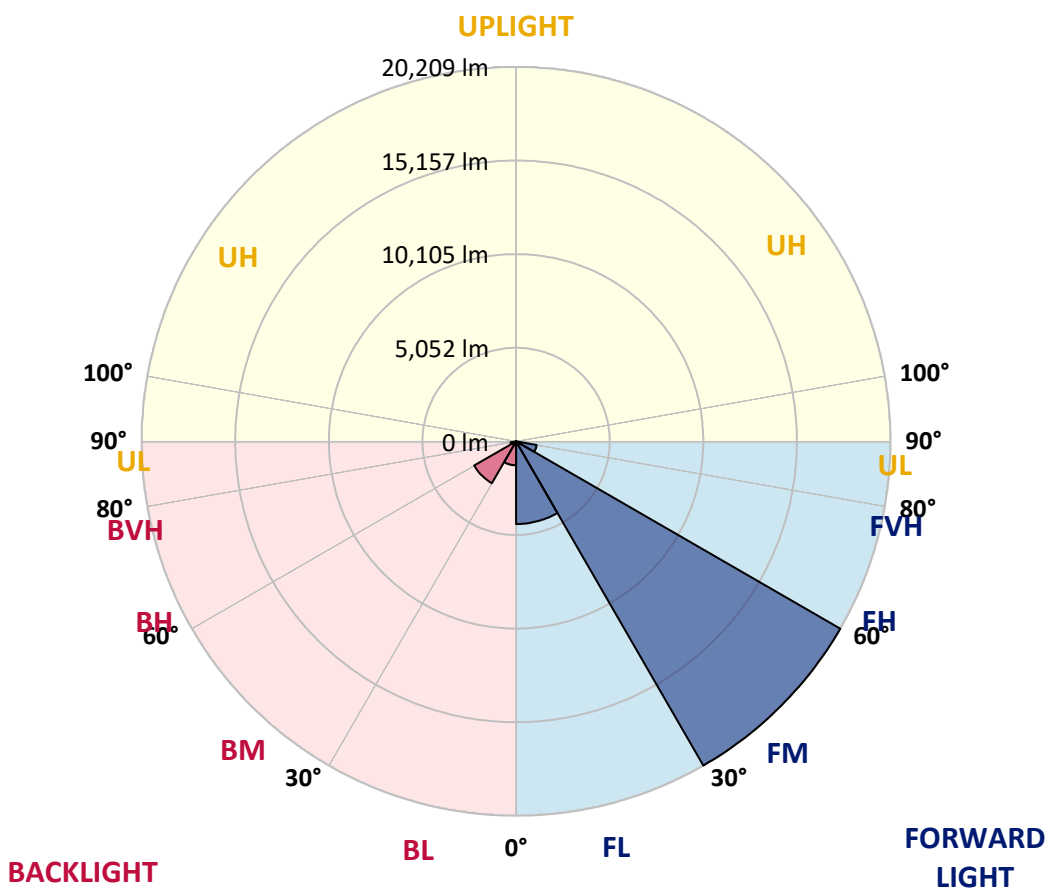
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4465.1	14.9			
FM (30°-60°)	20209.3	67.3			
FH (60°-80°)	1130.4	3.8			G1/1800
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	1293.9	4.3	B3/2500		
BM (30°-60°)	2610.3	8.7	B3/5000		
BH (60°-80°)	298.7	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°	3584.4	3584.4	3584.4	3584.4	3584.4	3584.4	3584.4	3584.4	3584.4	3584.4	3584.4
2.5°	5304.4	5220.9	5172.8	5134.3	4964.2	4694.7	4518.2	4425.1	4271.1	4011.2	3786.5
5°	6921.6	6860.7	6748.4	6671.4	6453.1	6071.3	5676.6	5519.3	5169.6	4582.3	4056.1
7.5°	7993.4	7948.5	7906.8	7804.1	7598.7	7252.2	6815.8	6652.1	6113.0	5278.7	4415.5
10°	8818.1	8782.8	8734.7	8731.5	8571.0	8259.8	7833.0	7662.9	7078.9	6036.0	4839.1
12.5°	9543.3	9514.5	9504.8	9594.7	9492.0	9261.0	8798.9	8587.1	7967.8	6809.3	5307.6
15°	10040.7	10034.3	10076.0	10252.5	10310.3	10204.4	9816.1	9588.3	8875.9	7585.9	5824.2
17.5°	10268.6	10287.8	10368.0	10672.9	10929.6	11019.4	10721.0	10528.5	9777.6	8372.1	6376.1
20°	10656.8	10650.4	10698.6	10987.4	11301.8	11622.7	11532.9	11369.2	10688.9	9203.2	6989.0
22.5°	11751.1	11658.0	11555.3	11600.3	11712.6	12088.0	12254.9	12171.4	11629.1	10056.8	7621.2
25°	13432.6	13336.3	13005.8	12684.9	12473.1	12643.2	12871.0	12912.7	12562.9	10932.8	8282.2
27.5°	15216.7	15130.1	14757.8	14276.5	13670.0	13374.8	13544.9	13628.3	13480.7	11975.7	8985.0
30°	16888.6	16773.0	16365.5	15768.7	15065.9	14613.4	14420.9	14478.7	14565.3	13211.1	9809.7
32.5°	18339.0	18252.4	17764.6	17135.7	16458.6	15986.9	15537.6	15633.9	15845.7	14722.5	10865.4
35°	19568.0	19523.1	19006.5	18380.7	17665.1	17424.5	17039.4	17058.6	17270.4	16548.4	12152.2
37.5°	20636.6	20559.6	20091.1	19510.3	18942.3	18903.8	18797.9	18807.5	18916.6	18675.9	13631.5
40°	21310.5	21239.9	20906.1	20546.7	20142.4	20148.8	20697.6	20739.3	20614.1	20764.9	15194.3
42.5°	21564.0	21512.6	21332.9	21336.1	21294.4	21483.7	22513.8	22590.8	22141.6	22404.7	16529.2
45°	21124.3	21101.9	21114.7	21576.8	22077.4	22661.4	23999.5	24134.3	23499.0	23492.5	17572.1
47.5°	19706.0	19661.1	20036.5	20822.7	21981.1	23117.1	24898.0	25106.6	24448.8	24115.1	18226.7
50°	16927.1	17055.4	17649.1	18830.0	20591.7	22491.3	24888.4	25251.0	24484.1	24060.5	18117.6
52.5°	12261.3	12235.6	13535.2	15159.0	17302.5	20489.0	23566.3	24095.8	23627.3	23524.6	17873.7
55°	6671.4	6905.6	7781.6	9931.6	12607.9	16699.2	20546.7	21702.0	22244.3	23328.9	18313.3
57.5°	2451.6	2554.3	3103.0	4624.1	6674.6	10384.1	15694.8	17437.3	19112.4	22783.4	18239.5
60°	988.3	1007.6	1225.8	1700.7	2804.6	5285.1	9415.0	10961.7	12540.5	17440.5	13997.3
62.5°	718.8	744.5	831.1	994.8	1418.3	2310.4	4059.3	4720.3	5159.9	8638.4	6896.0
65°	580.8	600.1	670.7	744.5	937.0	1241.9	1309.2	1261.1	1254.7	2233.4	1582.0
67.5°	481.3	500.6	551.9	603.3	673.9	619.3	449.2	471.7	385.1	381.9	311.3
70°	353.0	375.4	426.8	481.3	404.3	166.9	259.9	385.1	292.0	243.9	237.5
72.5°	266.3	282.4	330.5	314.5	118.7	64.2	173.3	279.2	224.6	179.7	176.5
75°	199.0	208.6	166.9	51.3	12.8	16.0	64.2	115.5	125.1	102.7	102.7
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	6.4	9.6	12.8	16.0	19.3
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°	3584.4	3584.4	3584.4	3584.4	3584.4	3584.4	3584.4	3584.4	3584.4	3584.4	3584.4
2.5°	3658.2	3523.4	3330.9	3170.4	3048.5	2929.7	2839.9	2750.0	2746.8	2701.9	2692.3
5°	3812.2	3568.3	3215.3	2961.8	2807.8	2714.7	2650.6	2618.5	2602.4	2586.4	2580.0
7.5°	4033.6	3683.8	3196.1	2926.5	2798.2	2737.2	2692.3	2673.0	2663.4	2650.6	2647.4
10°	4306.4	3850.7	3266.7	2993.9	2881.6	2823.9	2775.7	2746.8	2730.8	2708.3	2701.9
12.5°	4633.7	4056.1	3379.0	3106.2	2987.5	2910.5	2846.3	2804.6	2782.1	2753.3	2746.8
15°	4986.7	4277.5	3504.1	3208.9	3067.7	2968.3	2888.0	2823.9	2782.1	2746.8	2737.2
17.5°	5352.5	4502.1	3616.5	3279.5	3106.2	2987.5	2872.0	2785.3	2734.0	2689.1	2676.2
20°	5763.2	4733.2	3690.3	3292.4	3093.4	2936.2	2801.4	2692.3	2640.9	2580.0	2567.1
22.5°	6193.2	4948.2	3722.4	3263.5	3022.8	2839.9	2695.5	2583.2	2509.4	2445.2	2425.9
25°	6610.4	5140.7	3706.3	3183.3	2916.9	2705.1	2557.5	2442.0	2361.8	2297.6	2281.5
27.5°	7053.2	5301.1	3648.5	3064.5	2772.5	2557.5	2416.3	2316.8	2243.0	2172.4	2156.4
30°	7550.6	5448.8	3555.5	2920.1	2602.4	2406.7	2297.6	2230.2	2150.0	2076.2	2053.7
32.5°	8150.7	5580.3	3420.7	2746.8	2451.6	2275.1	2214.2	2162.8	2069.8	1992.7	1976.7
35°	8837.4	5689.4	3250.6	2567.1	2304.0	2191.7	2178.9	2111.5	1989.5	1899.7	1880.4
37.5°	9633.2	5795.3	3048.5	2390.6	2194.9	2153.2	2156.4	2040.9	1893.3	1784.2	1771.3
40°	10490.0	5901.2	2823.9	2236.6	2095.4	2130.7	2101.8	1938.2	1697.5	1591.6	1578.8
42.5°	11382.1	6016.7	2596.0	2092.2	2012.0	2044.1	2002.4	1732.8	1559.5	1505.0	1498.6
45°	12187.5	6154.7	2348.9	1947.8	1928.6	1918.9	1848.3	1569.2	1495.4	1456.9	1453.6
47.5°	12768.3	6132.3	2085.8	1809.8	1838.7	1806.6	1591.6	1492.1	1431.2	1379.8	1367.0
50°	12662.4	5740.8	1813.0	1655.8	1723.2	1694.3	1431.2	1402.3	1347.7	1293.2	1273.9
52.5°	12392.9	5208.1	1575.6	1492.1	1598.0	1530.7	1322.1	1293.2	1245.1	1174.5	1152.0
55°	12537.3	4707.5	1389.5	1360.6	1469.7	1267.5	1200.1	1155.2	1103.9	1026.9	1017.2
57.5°	12072.0	3841.1	1116.7	1136.0	1299.6	1081.4	1052.5	981.9	895.3	843.9	837.5
60°	8356.0	2063.3	699.5	722.0	940.2	908.1	943.4	879.2	773.4	725.2	715.6
62.5°	3837.9	827.9	381.9	365.8	494.2	616.1	808.6	802.2	670.7	593.7	587.2
65°	930.6	378.7	272.8	256.7	279.2	369.0	526.3	632.2	542.3	452.5	442.8
67.5°	301.6	308.1	250.3	234.3	247.1	276.0	314.5	349.8	346.6	317.7	311.3
70°	240.7	279.2	231.0	211.8	211.8	221.4	211.8	170.1	147.6	160.4	166.9
72.5°	179.7	211.8	182.9	163.7	157.2	154.0	131.6	96.3	67.4	61.0	57.8
75°	105.9	118.7	112.3	96.3	89.8	80.2	64.2	41.7	22.5	16.0	9.6
77.5°	19.3	22.5	25.7	19.3	16.0	12.8	9.6	3.2	0.0	0.0	0.0
80°	0.0	3.2	3.2	3.2	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)