

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: P643497

Luminaire Tested: GWS-SA6F-722-U-T2R-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P643497
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-SA6F-722-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) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24575.2 lumens
Efficiency: N/A
Efficacy: 66.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

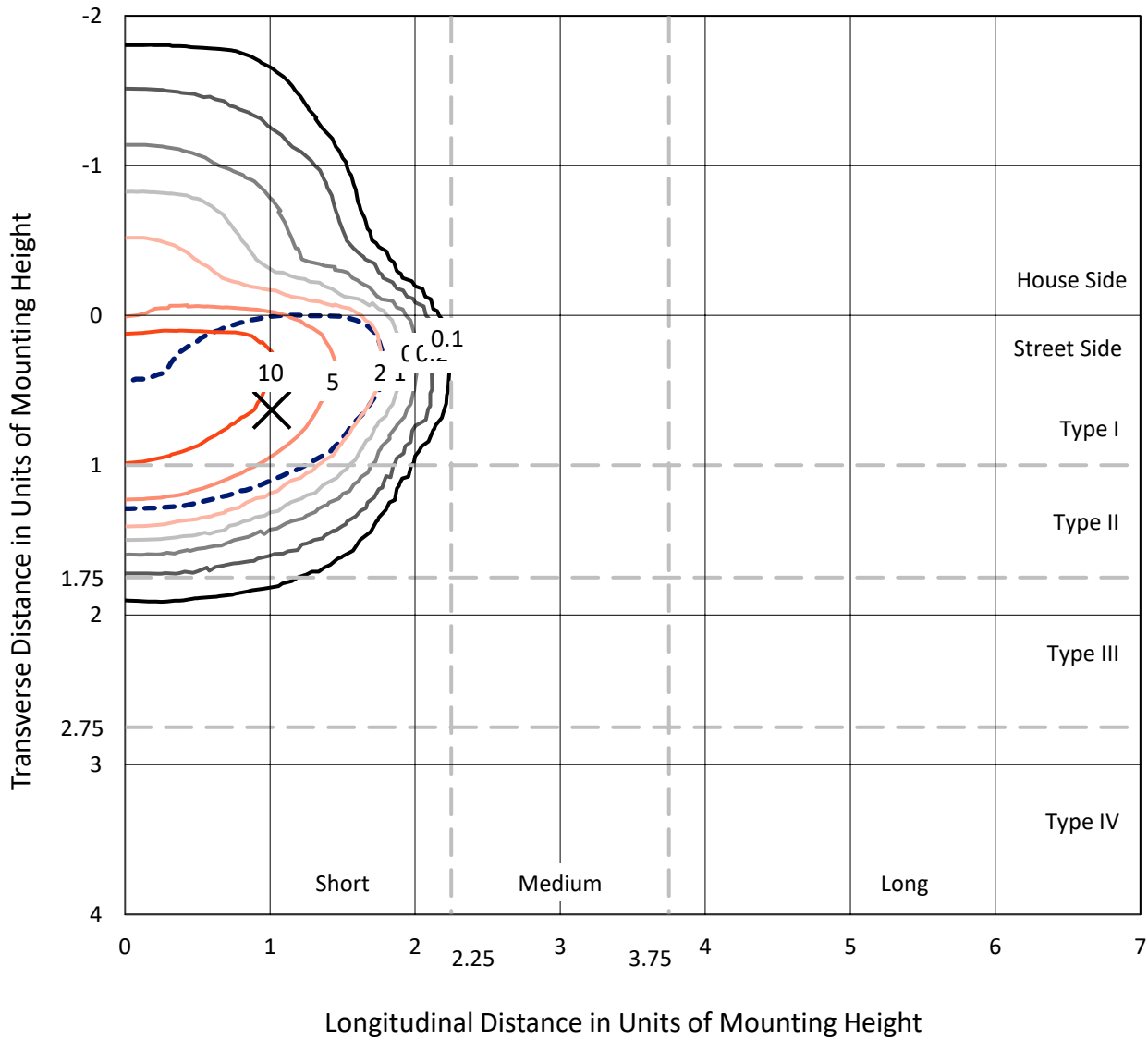
Input Watts (W): 372.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

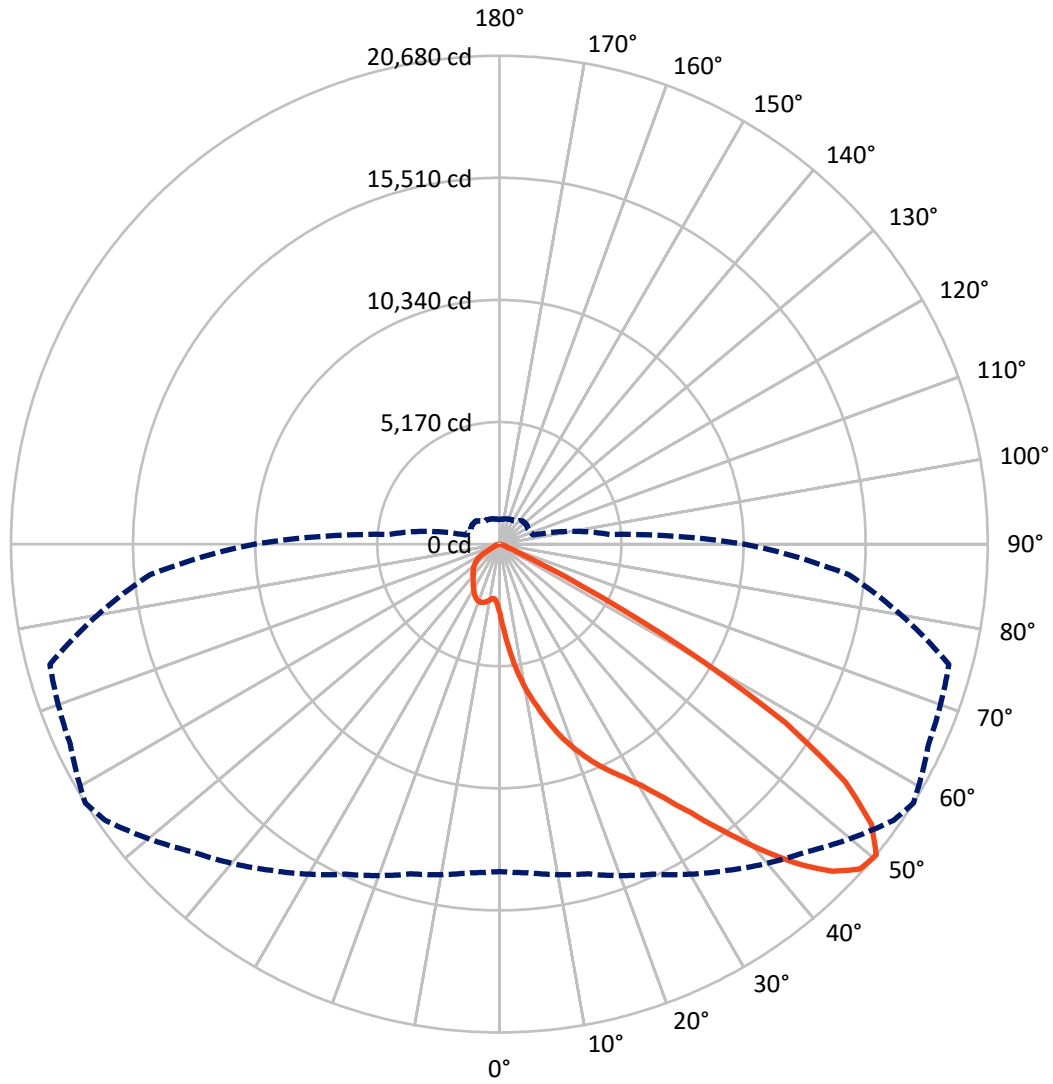
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.4 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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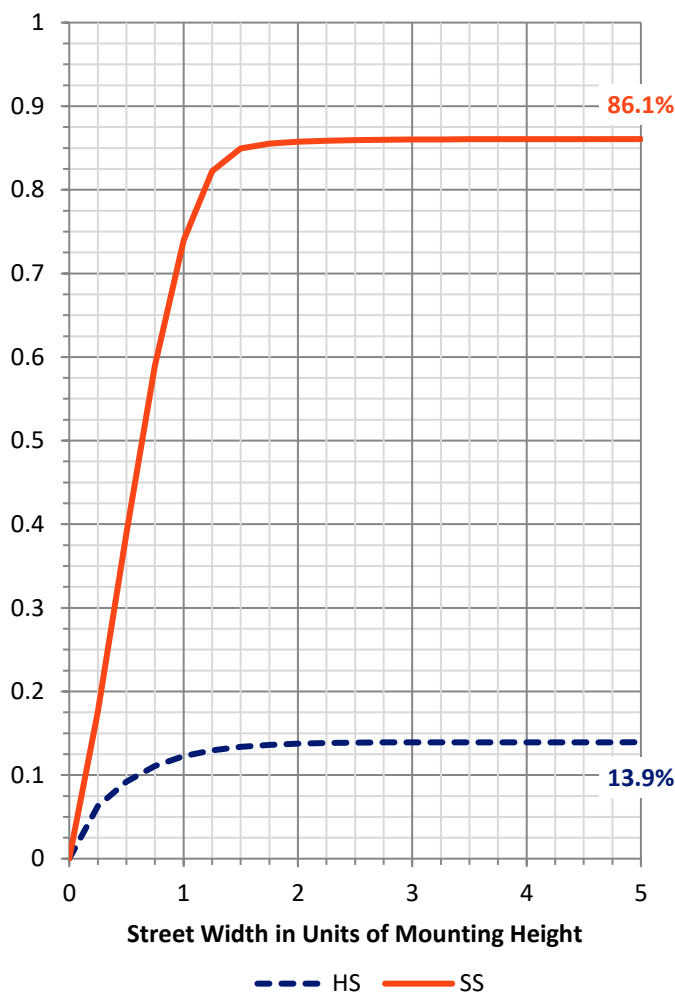
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3442.1	0.0	3442.1
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	21133.1	0.0	21133.1
	% Fixture	86.0	0.0	86.0
Total	Lumens	24575.2	0.0	24575.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	363.7	1.5
10°-20°	1439.6	5.9
20°-30°	2913.1	11.9
30°-40°	5153.7	21.0
40°-50°	7512.9	30.6
50°-60°	6021.8	24.5
60°-70°	1084.9	4.4
70°-80°	85.5	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°	24575.2	100.0
0°-180°	24575.2	100.0

Coefficient of Utilization



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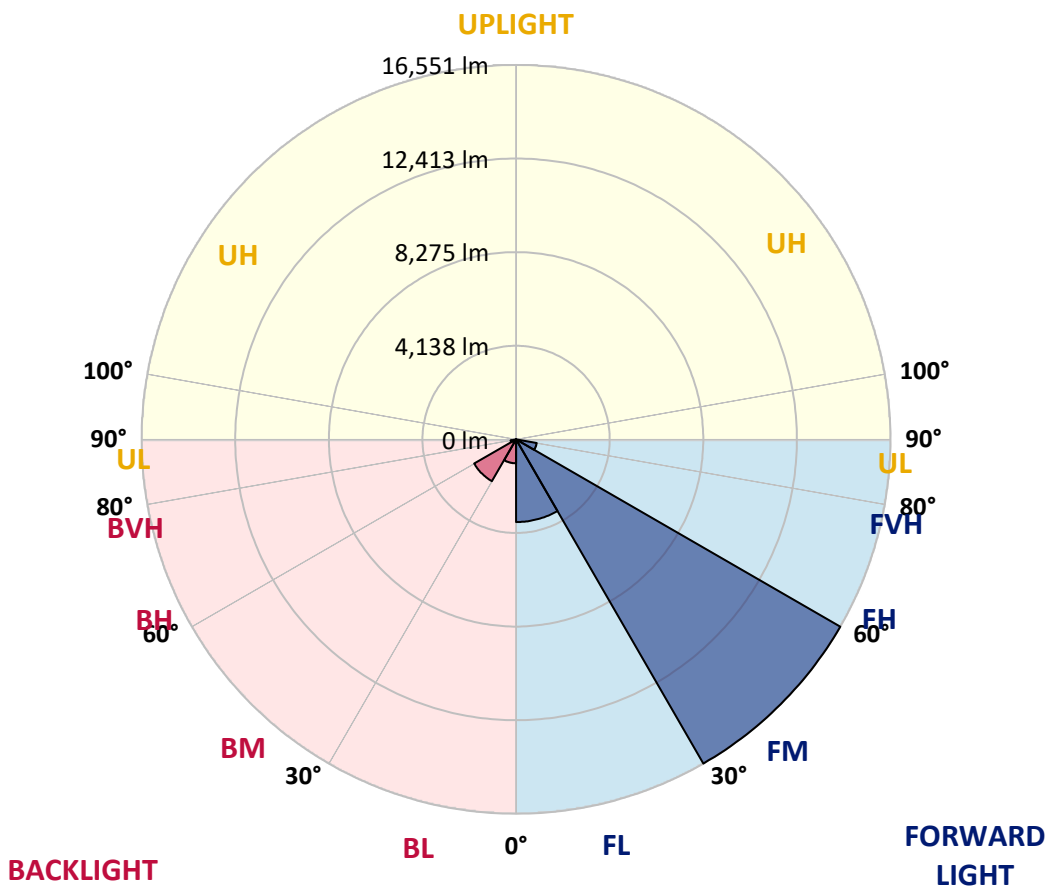
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3656.7	14.9			
FM (30°-60°)	16550.7	67.3			
FH (60°-80°)	925.7	3.8			G1/1800
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	1059.7	4.3	B3/2500		
BM (30°-60°)	2137.7	8.7	B2/2500		
BH (60°-80°)	244.6	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°	2935.5	2935.5	2935.5	2935.5	2935.5	2935.5	2935.5	2935.5	2935.5	2935.5	2935.5
2.5°	4344.1	4275.7	4236.3	4204.8	4065.5	3844.8	3700.2	3624.0	3497.9	3285.0	3101.0
5°	5668.6	5618.6	5526.7	5463.6	5284.9	4972.2	4648.9	4520.1	4233.7	3752.8	3321.8
7.5°	6546.3	6509.5	6475.4	6391.3	6223.1	5939.3	5581.9	5447.8	5006.3	4323.0	3616.1
10°	7221.7	7192.8	7153.4	7150.8	7019.4	6764.4	6414.9	6275.6	5797.3	4943.3	3963.0
12.5°	7815.6	7792.0	7784.1	7857.7	7773.6	7584.4	7206.0	7032.5	6525.3	5576.6	4346.7
15°	8223.0	8217.7	8251.9	8396.4	8443.7	8357.0	8039.0	7852.4	7269.0	6212.6	4769.8
17.5°	8409.6	8425.3	8491.0	8740.7	8950.9	9024.5	8780.1	8622.4	8007.5	6856.4	5221.8
20°	8727.6	8722.3	8761.7	8998.2	9255.8	9518.6	9445.0	9311.0	8753.8	7537.1	5723.8
22.5°	9623.7	9547.5	9463.4	9500.2	9592.2	9899.6	10036.3	9968.0	9523.8	8236.1	6241.5
25°	11000.8	10921.9	10651.2	10388.4	10215.0	10354.3	10540.9	10575.0	10288.6	8953.6	6782.8
27.5°	12461.9	12391.0	12086.1	11691.9	11195.2	10953.5	11092.7	11161.1	11040.2	9807.7	7358.4
30°	13831.1	13736.5	13402.8	12913.9	12338.4	11967.9	11810.2	11857.5	11928.4	10819.4	8033.8
32.5°	15019.0	14948.0	14548.6	14033.5	13479.0	13092.6	12724.7	12803.6	12977.0	12057.2	8898.4
35°	16025.5	15988.7	15565.6	15053.1	14467.1	14270.0	13954.6	13970.4	14143.8	13552.5	9952.2
37.5°	16900.6	16837.5	16453.8	15978.2	15513.0	15481.5	15394.8	15402.7	15492.0	15294.9	11163.7
40°	17452.5	17394.7	17121.4	16827.0	16495.9	16501.2	16950.5	16984.7	16882.2	17005.7	12443.5
42.5°	17660.1	17618.0	17470.9	17473.5	17439.3	17594.4	18438.0	18501.1	18133.1	18348.6	13536.8
45°	17300.1	17281.7	17292.2	17670.6	18080.6	18558.9	19654.7	19765.1	19244.8	19239.5	14390.9
47.5°	16138.5	16101.7	16409.2	17053.0	18001.7	18932.0	20390.6	20561.4	20022.7	19749.3	14927.0
50°	13862.7	13967.8	14453.9	15421.0	16863.8	18419.6	20382.7	20679.7	20051.6	19704.7	14837.6
52.5°	10041.6	10020.5	11084.9	12414.6	14170.1	16779.7	19300.0	19733.6	19349.9	19265.8	14637.9
55°	5463.6	5655.4	6372.9	8133.6	10325.4	13676.1	16827.0	17773.1	18217.2	19105.5	14997.9
57.5°	2007.8	2091.9	2541.3	3786.9	5466.2	8504.2	12853.5	14280.5	15652.3	18658.7	14937.5
60°	809.4	825.2	1003.9	1392.8	2296.9	4328.3	7710.5	8977.2	10270.2	14283.1	11463.3
62.5°	588.7	609.7	680.6	814.7	1161.6	1892.2	3324.4	3865.8	4225.8	7074.6	5647.6
65°	475.7	491.4	549.3	609.7	767.4	1017.0	1072.2	1032.8	1027.5	1829.1	1295.6
67.5°	394.2	410.0	452.0	494.1	551.9	507.2	367.9	386.3	315.4	312.7	254.9
70°	289.1	307.5	349.5	394.2	331.1	136.7	212.9	315.4	239.1	199.7	194.5
72.5°	218.1	231.3	270.7	257.5	97.2	52.6	141.9	228.6	184.0	147.2	144.5
75°	162.9	170.8	136.7	42.0	10.5	13.1	52.6	94.6	102.5	84.1	84.1
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	5.3	7.9	10.5	13.1	15.8
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°	2935.5	2935.5	2935.5	2935.5	2935.5	2935.5	2935.5	2935.5	2935.5	2935.5	2935.5
2.5°	2995.9	2885.5	2727.9	2596.5	2496.6	2399.4	2325.8	2252.2	2249.6	2212.8	2204.9
5°	3122.1	2922.3	2633.2	2425.6	2299.5	2223.3	2170.7	2144.4	2131.3	2118.2	2112.9
7.5°	3303.4	3016.9	2617.5	2396.7	2291.6	2241.7	2204.9	2189.1	2181.2	2170.7	2168.1
10°	3526.8	3153.6	2675.3	2451.9	2359.9	2312.6	2273.2	2249.6	2236.4	2218.0	2212.8
12.5°	3794.8	3321.8	2767.3	2543.9	2446.7	2383.6	2331.0	2296.9	2278.5	2254.8	2249.6
15°	4083.9	3503.1	2869.8	2628.0	2512.4	2430.9	2365.2	2312.6	2278.5	2249.6	2241.7
17.5°	4383.5	3687.1	2961.7	2685.8	2543.9	2446.7	2352.1	2281.1	2239.0	2202.3	2191.7
20°	4719.9	3876.3	3022.2	2696.3	2533.4	2404.6	2294.2	2204.9	2162.8	2112.9	2102.4
22.5°	5072.0	4052.4	3048.5	2672.7	2475.6	2325.8	2207.5	2115.5	2055.1	2002.5	1986.8
25°	5413.7	4210.0	3035.3	2607.0	2388.8	2215.4	2094.5	1999.9	1934.2	1881.6	1868.5
27.5°	5776.3	4341.4	2988.0	2509.7	2270.6	2094.5	1978.9	1897.4	1837.0	1779.1	1766.0
30°	6183.7	4462.3	2911.8	2391.5	2131.3	1971.0	1881.6	1826.5	1760.8	1700.3	1681.9
32.5°	6675.1	4570.1	2801.4	2249.6	2007.8	1863.2	1813.3	1771.3	1695.1	1632.0	1618.8
35°	7237.5	4659.4	2662.2	2102.4	1886.9	1794.9	1784.4	1729.2	1629.4	1555.8	1540.0
37.5°	7889.2	4746.2	2496.6	1957.9	1797.5	1763.4	1766.0	1671.4	1550.5	1461.2	1450.7
40°	8590.9	4832.9	2312.6	1831.7	1716.1	1745.0	1721.3	1587.3	1390.2	1303.5	1293.0
42.5°	9321.5	4927.5	2126.0	1713.4	1647.8	1674.0	1639.9	1419.1	1277.2	1232.5	1227.3
45°	9981.1	5040.5	1923.7	1595.2	1579.4	1571.5	1513.7	1285.1	1224.6	1193.1	1190.5
47.5°	10456.8	5022.1	1708.2	1482.2	1505.8	1479.6	1303.5	1222.0	1172.1	1130.0	1119.5
50°	10370.1	4701.5	1484.8	1356.0	1411.2	1387.6	1172.1	1148.4	1103.8	1059.1	1043.3
52.5°	10149.3	4265.2	1290.3	1222.0	1308.7	1253.6	1082.7	1059.1	1019.7	961.8	943.4
55°	10267.6	3855.3	1137.9	1114.3	1203.6	1038.1	982.9	946.1	904.0	841.0	833.1
57.5°	9886.5	3145.7	914.5	930.3	1064.3	885.6	862.0	804.2	733.2	691.2	685.9
60°	6843.3	1689.8	572.9	591.3	770.0	743.7	772.6	720.1	633.3	593.9	586.0
62.5°	3143.1	678.0	312.7	299.6	404.7	504.6	662.3	657.0	549.3	486.2	480.9
65°	762.1	310.1	223.4	210.2	228.6	302.2	431.0	517.7	444.1	370.5	362.7
67.5°	247.0	252.3	205.0	191.8	202.4	226.0	257.5	286.5	283.8	260.2	254.9
70°	197.1	228.6	189.2	173.4	173.4	181.3	173.4	139.3	120.9	131.4	136.7
72.5°	147.2	173.4	149.8	134.0	128.8	126.1	107.7	78.8	55.2	49.9	47.3
75°	86.7	97.2	92.0	78.8	73.6	65.7	52.6	34.2	18.4	13.1	7.9
77.5°	15.8	18.4	21.0	15.8	13.1	10.5	7.9	2.6	0.0	0.0	0.0
80°	0.0	2.6	2.6	2.6	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)