

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: P642697

Luminaire Tested: GWS-SA6D-740-U-AFL-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P642697
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-46)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA6D-740-U-AFL-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE 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: 26978.9 lumens
Efficiency: N/A
Efficacy: 109.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

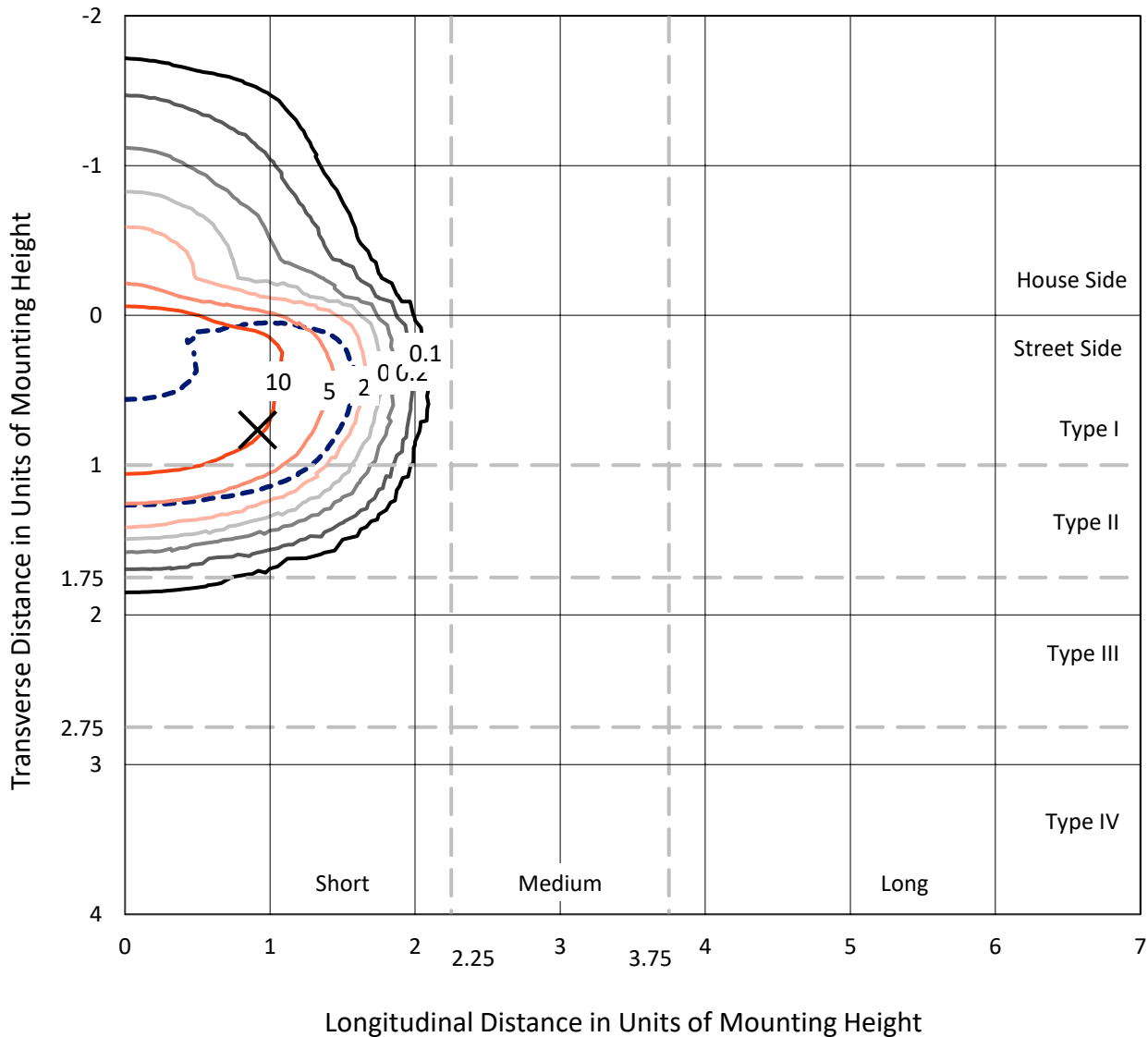
Input Watts (W): 245.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

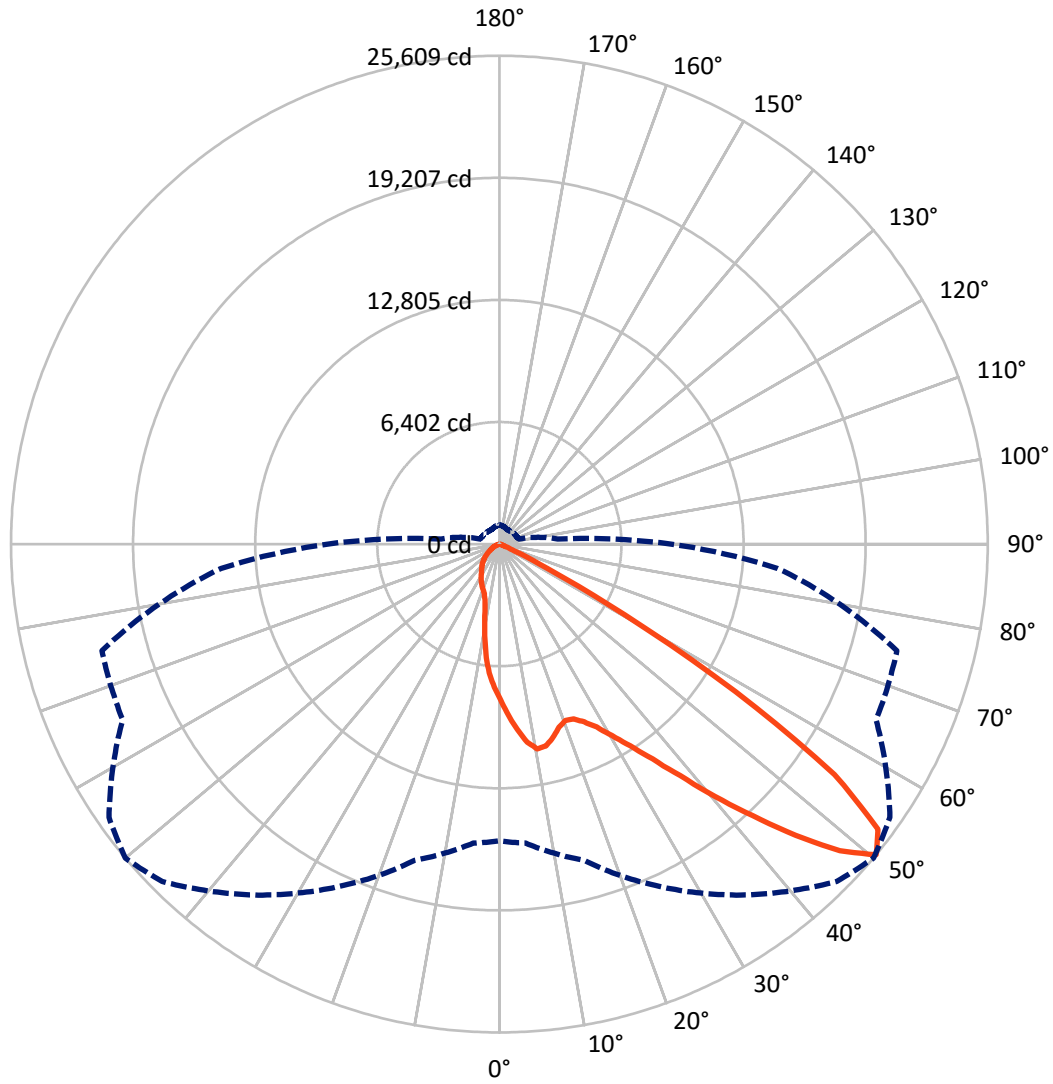
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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

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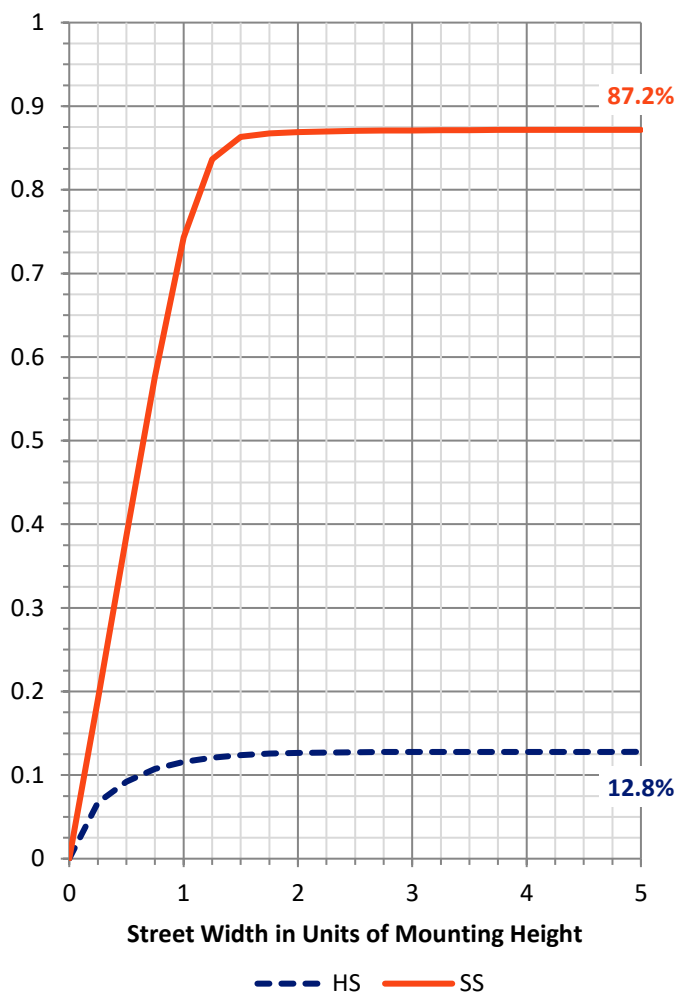
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3466.4	0.0	3466.4
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	23512.5	0.0	23512.5
	% Fixture	87.2	0.0	87.2
Total	Lumens	26978.9	0.0	26978.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	758.2	2.8
10°-20°	1956.3	7.3
20°-30°	3228.5	12.0
30°-40°	5327.8	19.7
40°-50°	8429.8	31.2
50°-60°	6382.3	23.7
60°-70°	798.8	3.0
70°-80°	90.4	0.3
80°-90°	6.9	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°	26978.9	100.0
0°-180°	26978.9	100.0

Coefficient of Utilization



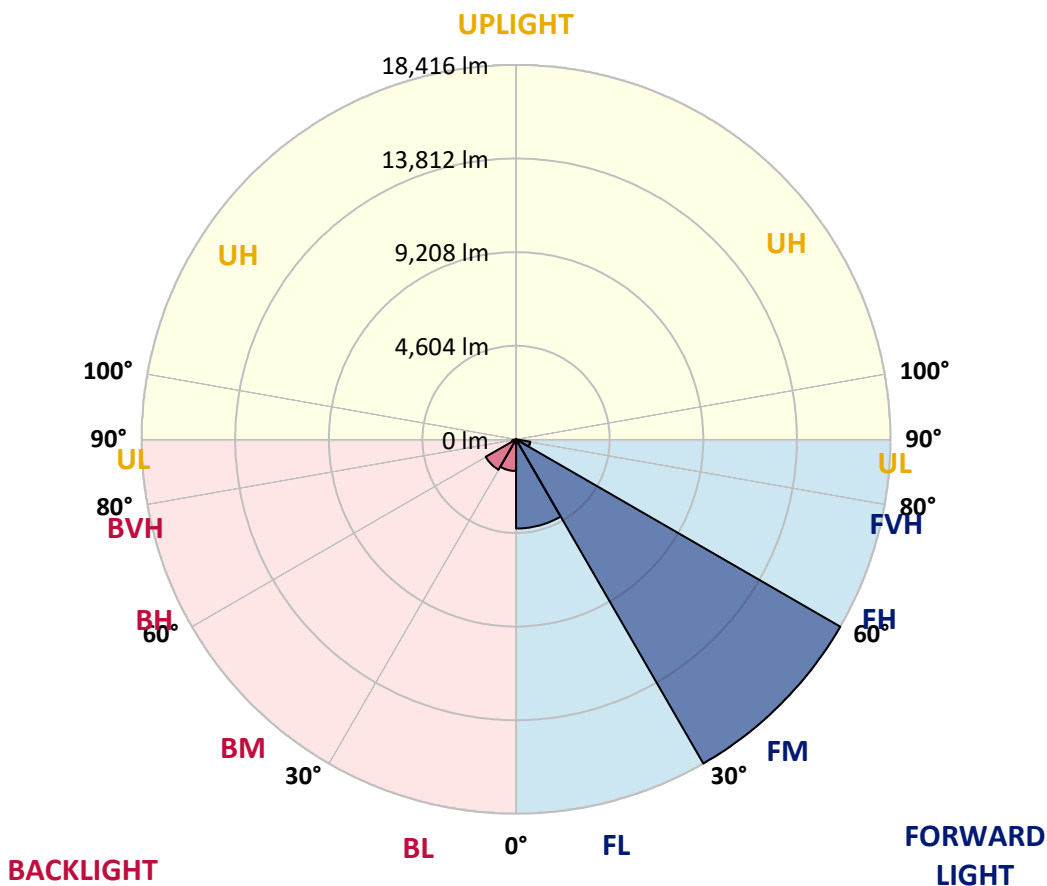
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4387.2	16.3			
FM (30°-60°)	18415.9	68.3			
FH (60°-80°)	706.2	2.6			G1/1800
FVH (80°-90°)	3.2	0.0			G0/10
BL (0°-30°)	1555.9	5.8	B3/2500		
BM (30°-60°)	1723.9	6.4	B2/2500		
BH (60°-80°)	182.9	0.7	B1/500		G1/500
BVH (80°-90°)	3.7	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°	50°	55°	65°	75°	85°
0°	8173.5	8173.5	8173.5	8173.5	8173.5	8173.5	8173.5	8173.5	8173.5	8173.5	8173.5
2.5°	9313.7	9388.1	9367.6	9270.0	9164.7	9090.3	8974.7	8938.8	8676.8	8494.5	8301.9
5°	10438.4	10461.5	10435.8	10317.7	10132.8	9955.6	9765.6	9655.2	9216.1	8820.6	8417.5
7.5°	10708.0	10679.8	10728.6	10787.6	10761.9	10684.9	10484.6	10363.9	9840.1	9195.5	8584.4
10°	9865.8	9801.6	9983.9	10289.5	10610.4	10972.5	10921.2	10931.4	10448.7	9668.0	8802.7
12.5°	8748.7	8723.1	8859.2	9213.5	9842.7	10664.4	10862.1	11193.4	11005.9	10179.0	9051.7
15°	8258.3	8271.1	8353.3	8576.7	9028.6	10050.6	10525.7	11124.0	11504.1	10674.6	9326.5
17.5°	8332.7	8379.0	8376.4	8450.9	8725.6	9544.8	10099.4	10905.7	11889.2	11244.7	9642.4
20°	8838.6	8884.8	8815.5	8759.0	8851.5	9416.4	9876.0	10684.9	12148.6	11819.9	9976.2
22.5°	9596.1	9650.1	9485.7	9323.9	9264.9	9626.9	9960.8	10595.0	12346.3	12346.3	10274.1
25°	10512.9	10587.3	10333.1	10045.5	9881.2	10071.2	10322.8	10797.9	12549.2	12818.8	10476.9
27.5°	11537.4	11540.0	11321.7	10998.2	10690.0	10713.2	10864.7	11255.0	12772.6	13327.3	10636.1
30°	12690.4	12698.1	12408.0	12020.2	11632.5	11527.2	11655.6	11950.9	13237.4	13966.7	10857.0
32.5°	14179.8	14215.7	13799.7	13229.7	12726.4	12528.6	12603.1	12913.8	13976.9	14767.8	11188.2
35°	16193.0	16231.5	15617.8	14865.4	14064.2	13766.4	13840.8	14154.1	15047.7	15905.4	11717.2
37.5°	18180.5	18231.9	17610.5	16909.4	15810.4	15317.4	15394.4	15692.3	16655.2	17476.9	12564.6
40°	19554.3	19623.7	19431.1	18958.6	17939.1	17292.0	17384.5	17492.3	18424.5	19356.6	13663.6
42.5°	20278.5	20376.1	20458.2	20699.6	20162.9	19621.1	19464.5	19472.2	20224.6	21272.2	14806.3
45°	20322.1	20417.1	20838.3	21770.4	22178.7	22065.7	21780.7	21588.1	21598.4	22548.5	15520.2
47.5°	18909.8	19087.0	19875.3	21701.1	23236.7	24173.9	24030.1	23573.1	22176.1	22633.2	15443.2
50°	15563.9	15738.5	17171.4	19798.3	22466.3	25016.2	25609.4	24995.7	21798.7	21577.8	14649.7
52.5°	11303.8	11321.7	12251.3	15319.9	19343.8	23462.6	24859.6	24800.5	21223.5	20299.0	13566.1
55°	5369.4	5305.2	6350.3	8646.0	13378.6	18976.6	21331.3	21999.0	20406.9	19374.6	12726.4
57.5°	1563.8	1594.6	2059.4	3374.2	6691.9	12128.1	14608.6	15851.5	16750.2	15928.5	9870.9
60°	701.0	703.6	783.2	1027.1	2228.9	5641.6	7552.1	9090.3	10014.7	9280.3	4896.9
62.5°	508.4	511.0	541.8	580.3	757.5	1910.5	2832.4	3774.8	3844.1	2516.5	1240.3
65°	423.7	423.7	428.8	428.8	454.5	683.1	860.2	1109.3	934.7	693.3	485.3
67.5°	341.5	344.1	349.2	349.2	341.5	341.5	369.8	405.7	434.0	536.7	446.8
70°	267.1	264.5	264.5	267.1	259.4	220.8	238.8	272.2	297.9	418.6	387.7
72.5°	208.0	210.6	208.0	197.7	179.8	131.0	141.2	177.2	190.0	261.9	261.9
75°	156.6	159.2	148.9	113.0	74.5	41.1	53.9	87.3	110.4	128.4	95.0
77.5°	20.5	20.5	15.4	15.4	12.8	15.4	15.4	20.5	30.8	30.8	23.1
80°	2.6	2.6	2.6	5.1	7.7	10.3	10.3	10.3	10.3	12.8	12.8
82.5°	2.6	2.6	2.6	2.6	7.7	7.7	10.3	10.3	10.3	10.3	10.3
85°	0.0	0.0	0.0	2.6	5.1	7.7	7.7	10.3	10.3	10.3	10.3
87.5°	0.0	0.0	0.0	2.6	5.1	7.7	7.7	7.7	10.3	10.3	10.3
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°	8173.5	8173.5	8173.5	8173.5	8173.5	8173.5	8173.5	8173.5	8173.5	8173.5	8173.5
2.5°	8186.4	8037.4	7857.7	7734.4	7559.8	7444.3	7279.9	7169.5	7074.5	7000.0	7041.1
5°	8188.9	7952.7	7585.5	7272.2	6930.7	6617.4	6281.0	6016.5	5777.7	5669.9	5728.9
7.5°	8240.3	7901.3	7339.0	6781.7	6126.9	5479.8	4873.8	4380.8	4136.8	4021.3	4057.2
10°	8340.4	7878.2	7064.2	6139.8	5076.7	4193.3	3605.3	3271.5	3135.4	3063.5	3076.3
12.5°	8432.9	7862.8	6707.3	5295.0	4005.9	3253.5	2947.9	2901.7	2929.9	2932.5	2929.9
15°	8558.7	7834.6	6265.6	4427.0	3204.7	2811.8	2819.5	2886.3	2953.1	2973.6	2968.5
17.5°	8692.2	7790.9	5695.5	3595.0	2719.4	2683.4	2773.3	2863.2	2929.9	2940.2	2942.8
20°	8830.9	7701.0	5045.9	2935.1	2493.4	2585.8	2686.0	2752.8	2801.5	2817.0	2822.1
22.5°	8895.1	7511.0	4296.0	2462.6	2341.9	2465.2	2539.6	2626.9	2642.3	2585.8	2596.1
25°	8861.7	7190.0	3564.2	2144.2	2190.4	2313.7	2424.1	2380.4	2316.2	2275.1	2288.0
27.5°	8756.4	6763.8	2847.8	1910.5	2028.6	2185.3	2198.1	2149.3	2139.0	2105.7	2115.9
30°	8643.5	6273.3	2290.5	1723.0	1864.3	2028.6	1990.1	2008.1	2010.6	1972.1	1985.0
32.5°	8574.1	5759.7	1823.2	1597.2	1759.0	1789.8	1866.8	1902.8	1905.4	1815.5	1830.9
35°	8597.2	5253.9	1543.3	1494.5	1661.4	1653.7	1761.6	1782.1	1633.2	1509.9	1522.7
37.5°	8784.7	4786.5	1384.1	1414.9	1491.9	1551.0	1633.2	1497.1	1463.7	1407.2	1414.9
40°	9133.9	4388.5	1289.1	1366.1	1376.4	1471.4	1345.6	1363.5	1366.1	1330.2	1337.9
42.5°	9542.2	4057.2	1232.6	1337.9	1312.2	1327.6	1201.8	1237.7	1276.2	1260.8	1263.4
45°	9747.6	3733.7	1183.8	1240.3	1248.0	1101.6	1073.4	1111.9	1160.7	1168.4	1170.9
47.5°	9565.3	3425.5	1132.4	1099.0	1150.4	1004.0	970.7	983.5	1040.0	1070.8	1075.9
50°	9008.1	3071.2	1055.4	973.2	945.0	901.3	870.5	873.1	937.3	991.2	1001.5
52.5°	8224.9	2701.4	929.6	824.3	760.1	793.5	801.2	785.8	844.8	898.8	909.0
55°	7464.8	2239.2	737.0	670.2	611.2	683.1	703.6	683.1	701.0	737.0	739.5
57.5°	5256.4	1266.0	564.9	554.7	505.9	585.5	618.9	588.0	557.2	580.3	585.5
60°	2436.9	662.5	434.0	434.0	421.1	503.3	559.8	516.1	457.1	467.4	475.1
62.5°	762.7	418.6	318.4	300.4	344.1	428.8	475.1	431.4	362.1	362.1	372.3
65°	431.4	359.5	251.7	231.1	279.9	344.1	372.3	326.1	264.5	259.4	259.4
67.5°	400.6	341.5	223.4	187.5	197.7	220.8	231.1	200.3	182.3	179.8	182.3
70°	331.3	285.0	179.8	128.4	120.7	118.1	123.3	115.6	110.4	113.0	120.7
72.5°	205.4	172.0	113.0	77.0	66.8	64.2	64.2	64.2	61.6	61.6	61.6
75°	74.5	64.2	51.4	38.5	33.4	30.8	30.8	33.4	30.8	28.2	25.7
77.5°	23.1	20.5	20.5	20.5	18.0	15.4	12.8	12.8	10.3	7.7	7.7
80°	12.8	12.8	12.8	12.8	10.3	10.3	7.7	5.1	2.6	2.6	0.0
82.5°	12.8	12.8	12.8	10.3	10.3	10.3	7.7	5.1	2.6	0.0	0.0
85°	10.3	10.3	10.3	10.3	10.3	10.3	7.7	5.1	2.6	0.0	0.0
87.5°	10.3	10.3	10.3	10.3	10.3	10.3	7.7	5.1	2.6	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)