

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: P643694

Luminaire Tested: GWS-SA6F-740-U-SL2-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P643694
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-28)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SAGF-740-U-SL2-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR 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: 29224.4 lumens
Efficiency: N/A
Efficacy: 78.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

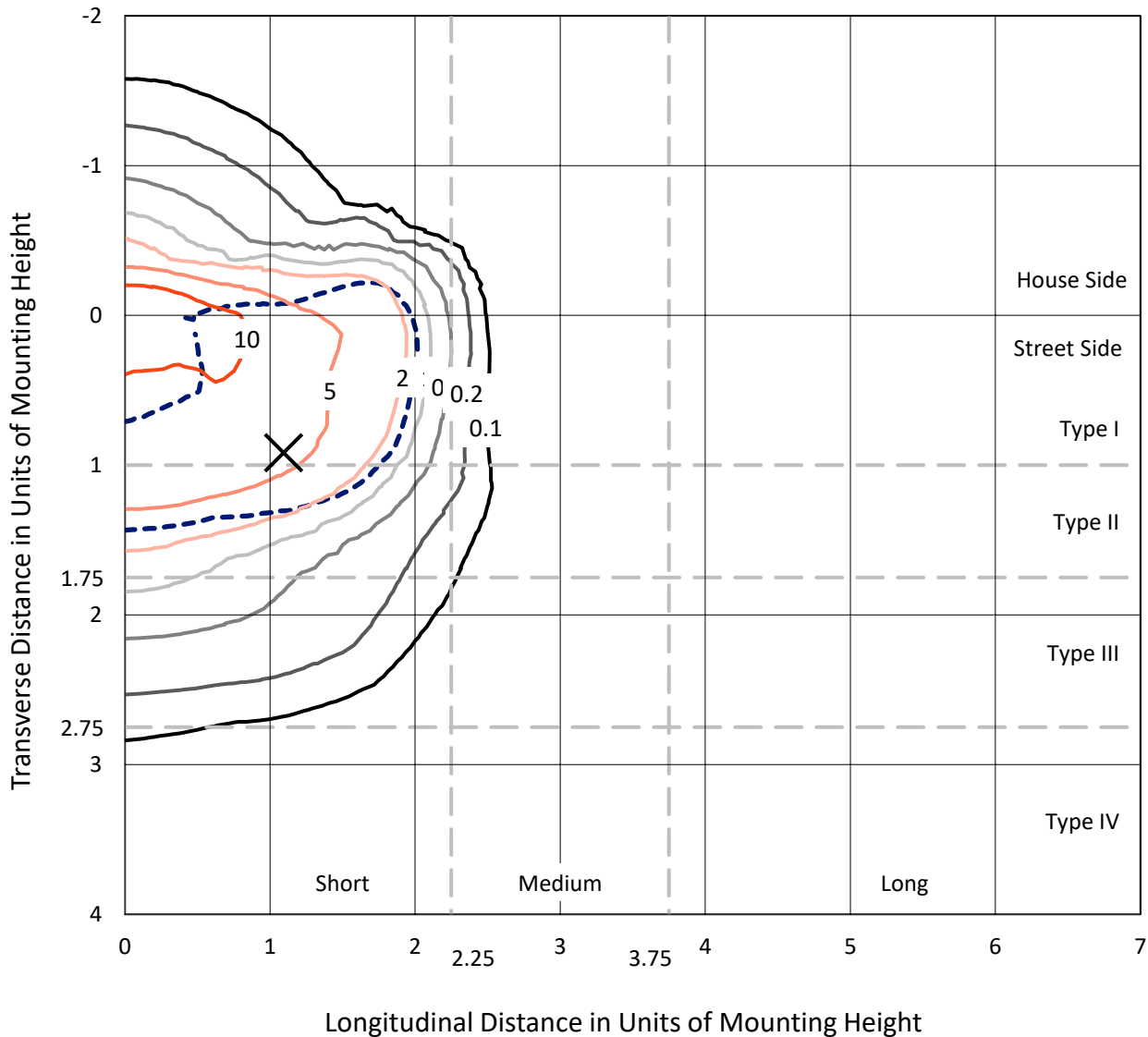
Input Watts (W): 372.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

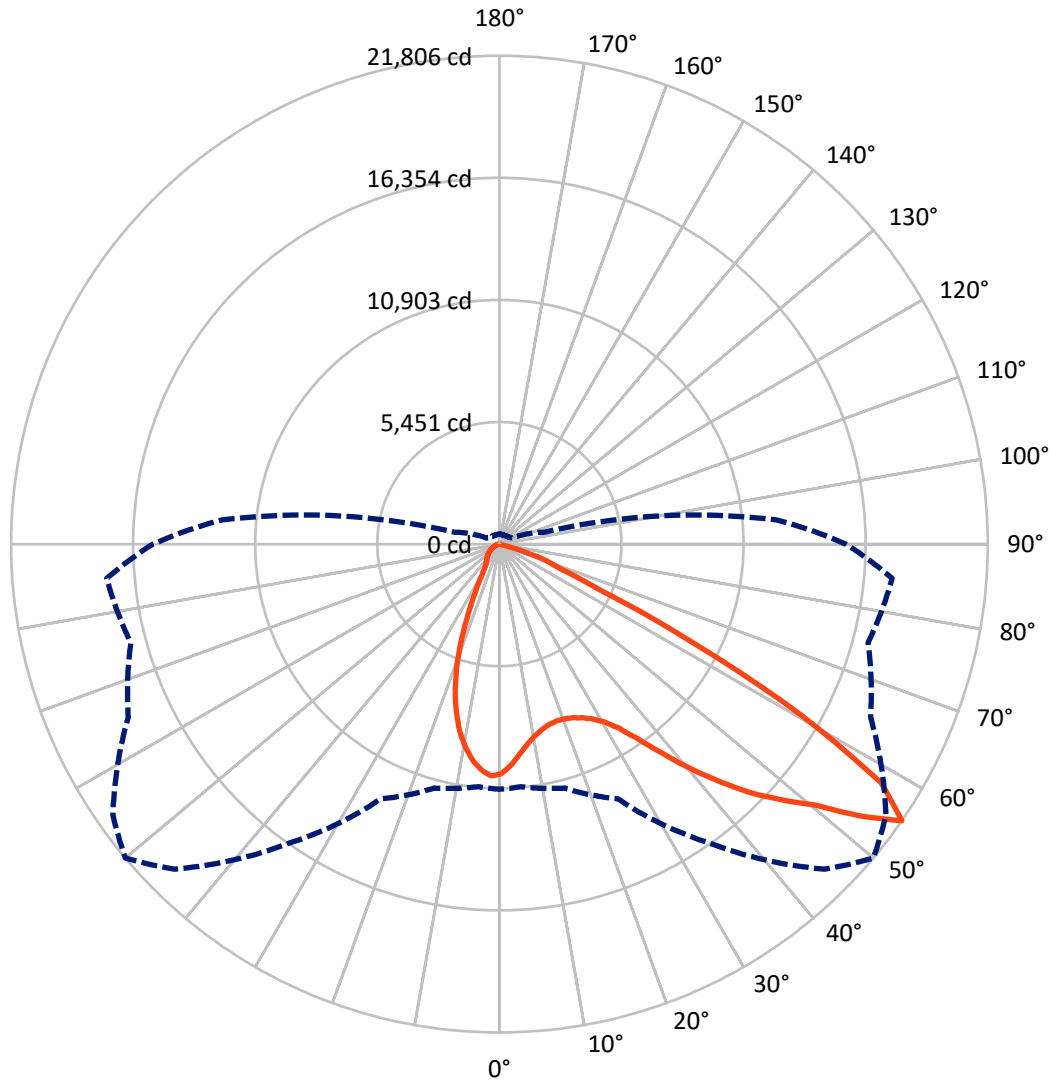
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 50-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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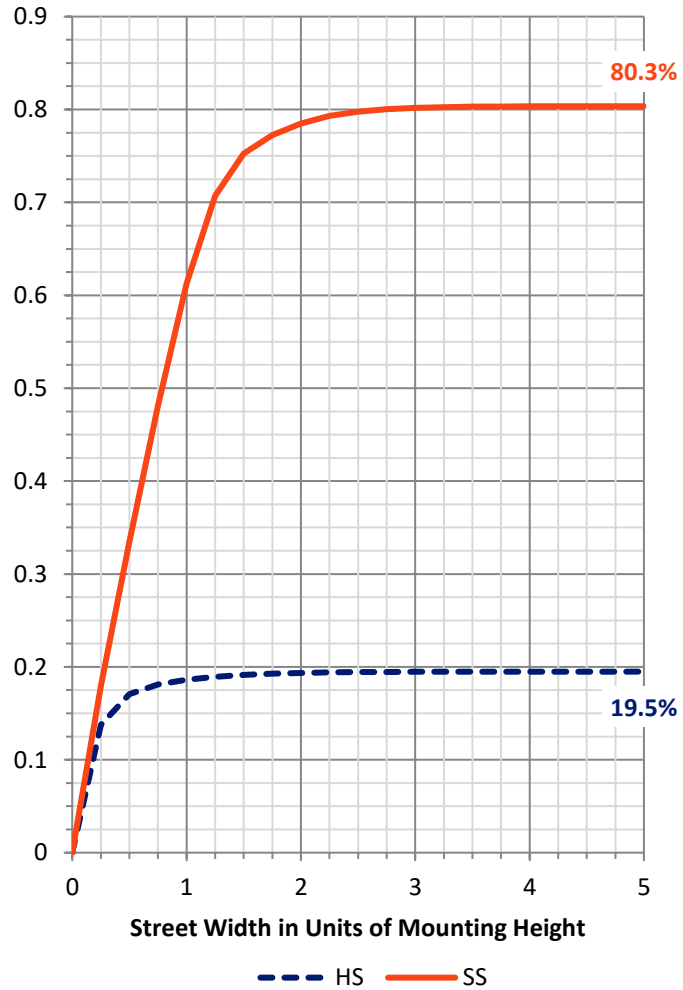
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5758.6	0.0	5758.6
	% Fixture	19.7	0.0	19.7
Street Side	Lumens	23465.8	0.0	23465.8
	% Fixture	80.3	0.0	80.3
Total	Lumens	29224.4	0.0	29224.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	900.5	3.1
10°-20°	2215.9	7.6
20°-30°	3125.6	10.7
30°-40°	4625.3	15.8
40°-50°	6672.8	22.8
50°-60°	7871.1	26.9
60°-70°	3511.2	12.0
70°-80°	301.9	1.0
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°	29224.4	100.0
0°-180°	29224.4	100.0

Coefficient of Utilization



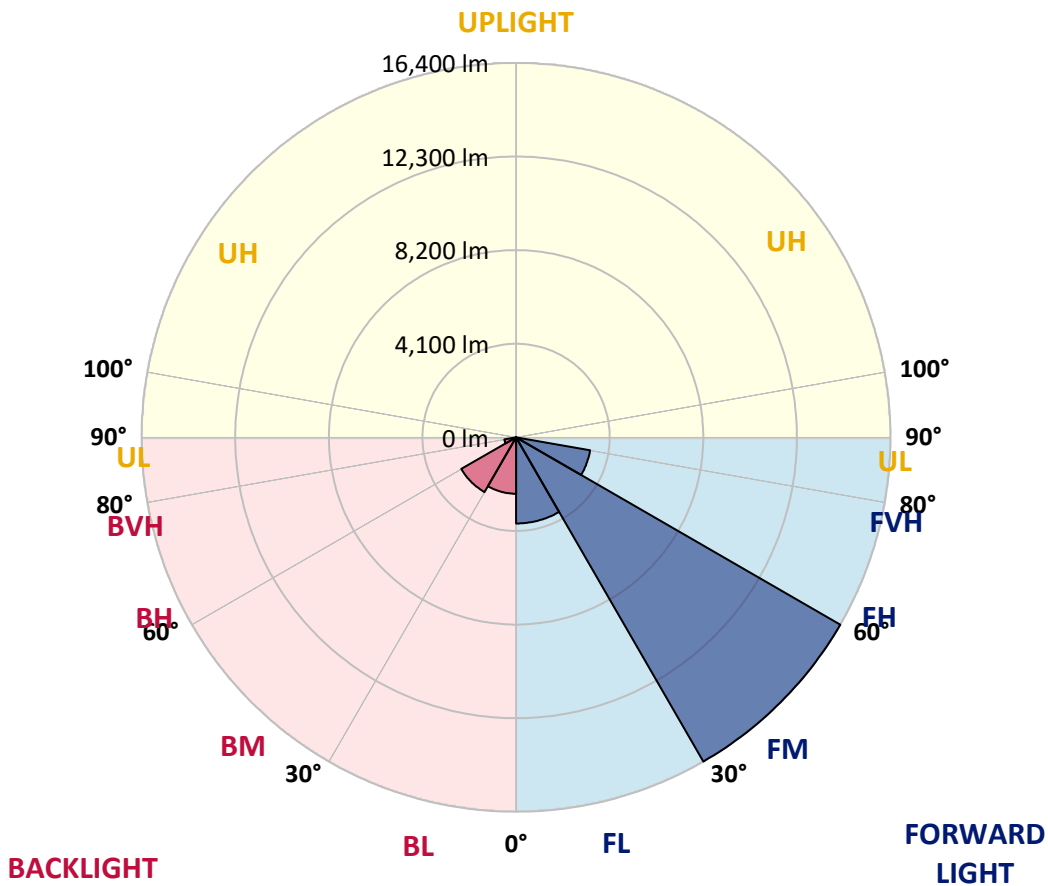
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3773.0	12.9			
FM (30°-60°)	16399.8	56.1			
FH (60°-80°)	3293.1	11.3			G2/5000
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	2469.1	8.4	B3/2500		
BM (30°-60°)	2769.5	9.5	B3/5000		
BH (60°-80°)	520.0	1.8	B2/1000		G2/1000
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-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
0°	10253.5	10253.5	10253.5	10253.5	10253.5	10253.5	10253.5	10253.5	10253.5	10253.5	10253.5
2.5°	9525.7	9532.9	9536.4	9632.8	9668.4	9811.2	9886.1	9925.3	10028.8	10150.1	10250.0
5°	8887.1	8876.4	8894.3	9015.6	9094.0	9304.5	9418.7	9497.2	9725.5	10010.9	10250.0
7.5°	8330.6	8352.0	8373.4	8505.4	8623.1	8851.4	9015.6	9133.3	9450.8	9875.4	10278.5
10°	7938.1	7938.1	7970.2	8120.1	8259.2	8541.1	8705.2	8855.0	9233.2	9754.1	10310.6
12.5°	7649.1	7652.7	7691.9	7863.2	8023.7	8316.3	8487.5	8633.8	9051.2	9632.8	10317.8
15°	7513.6	7502.9	7535.0	7716.9	7895.3	8170.0	8348.4	8491.1	8922.8	9565.0	10353.4
17.5°	7477.9	7470.7	7495.7	7674.1	7856.1	8123.6	8298.4	8441.2	8905.0	9586.4	10460.5
20°	7581.3	7567.1	7556.4	7709.8	7881.0	8145.0	8327.0	8487.5	8990.6	9704.1	10624.6
22.5°	7827.5	7827.5	7802.5	7877.5	7991.6	8230.7	8419.8	8630.2	9215.3	9939.6	10867.2
25°	8280.6	8244.9	8198.6	8230.7	8216.4	8366.2	8591.0	8883.6	9639.9	10328.5	11163.3
27.5°	8797.9	8830.0	8751.5	8755.1	8630.2	8576.7	8837.2	9279.6	10271.4	10877.9	11602.1
30°	9500.8	9475.8	9479.4	9468.7	9179.7	8926.4	9208.2	9796.9	11067.0	11716.3	12173.0
32.5°	10050.2	10085.9	10203.6	10271.4	9893.2	9486.5	9786.2	10499.7	11973.2	12672.4	12872.2
35°	10631.7	10695.9	10935.0	11156.2	10838.6	10371.3	10692.4	11430.9	12825.8	13617.9	13675.0
37.5°	11245.4	11373.8	11659.2	12048.1	11998.1	11584.3	11876.8	12526.2	13496.6	14188.7	14338.6
40°	11948.2	12073.1	12540.4	13100.6	13218.3	13125.5	13221.9	13600.0	13939.0	14213.7	14624.0
42.5°	12718.8	12890.1	13482.3	14231.5	14673.9	14756.0	14531.2	14492.0	14131.6	13928.3	14563.3
45°	13628.6	13828.4	14499.1	15469.5	16172.3	16282.9	15894.1	15391.0	14252.9	13717.8	14381.4
47.5°	14648.9	14838.0	15505.2	16671.8	17717.2	17760.0	17082.1	16272.2	14613.3	13960.4	14520.5
50°	14991.4	15109.2	15687.1	17057.1	18983.7	19311.9	18330.8	17264.1	15337.5	14673.9	15198.4
52.5°	13814.1	13860.5	14363.5	15747.8	18726.8	20835.3	20153.9	18744.6	16625.4	15762.1	16243.7
55°	10945.7	10870.8	11277.5	12547.6	16275.8	20524.9	21805.7	21070.8	18284.4	17039.3	17603.0
57.5°	7656.3	7567.1	7474.3	8334.1	12144.4	17399.6	20093.2	21395.4	19864.9	18305.8	19069.3
60°	6293.4	6207.8	5758.3	5362.2	7342.3	12494.1	15433.8	17884.8	19736.5	18241.6	19022.9
62.5°	5437.2	5387.2	5205.3	4666.5	4320.5	7131.8	9664.9	12012.4	15144.8	14324.3	14367.1
65°	4270.5	4256.3	4381.1	4438.2	3821.0	3945.9	4930.5	6243.5	8187.9	7720.5	7320.9
67.5°	2918.4	2886.3	3121.7	3838.8	3674.7	3114.6	2886.3	2911.2	3542.7	2165.6	1719.6
70°	1855.2	1780.3	1783.8	2379.7	2989.7	2458.1	2226.2	1958.7	1762.4	321.1	363.9
72.5°	1188.0	1141.7	981.1	1073.9	1384.3	1198.7	1209.4	1041.8	695.7	171.2	199.8
75°	499.5	460.2	353.2	281.8	278.3	174.8	153.4	142.7	96.3	96.3	103.5
77.5°	3.6	0.0	0.0	3.6	7.1	3.6	3.6	7.1	14.3	21.4	25.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.6
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°	10253.5	10253.5	10253.5	10253.5	10253.5	10253.5	10253.5	10253.5	10253.5	10253.5	10253.5
2.5°	10310.6	10225.0	10321.3	10357.0	10353.4	10357.0	10253.5	10182.2	10178.6	10089.4	10046.6
5°	10349.9	10282.1	10353.4	10307.1	10196.5	10057.3	9871.8	9711.3	9639.9	9536.4	9486.5
7.5°	10424.8	10353.4	10342.7	10157.2	9882.5	9590.0	9261.7	8969.2	8812.2	8623.1	8633.8
10°	10478.3	10396.3	10257.1	9878.9	9422.3	8954.9	8466.1	8030.9	7756.2	7502.9	7460.0
12.5°	10499.7	10378.4	10053.8	9482.9	8840.7	8230.7	7513.6	6892.8	6464.7	6132.9	6086.5
15°	10539.0	10342.7	9793.3	9004.9	8123.6	7260.3	6346.9	5497.8	4930.5	4548.8	4580.9
17.5°	10599.6	10303.5	9500.8	8469.7	7353.0	6132.9	4898.4	3924.5	3403.6	3182.4	3185.9
20°	10685.2	10257.1	9179.7	7881.0	6429.0	4859.2	3425.0	2690.0	2543.8	2536.6	2525.9
22.5°	10799.4	10210.7	8837.2	7235.3	5333.7	3403.6	2279.8	2051.4	2112.1	2229.8	2251.2
25°	10935.0	10153.6	8455.4	6507.5	4138.5	2233.4	1708.9	1673.2	1819.5	1976.5	2012.2
27.5°	11145.5	10125.1	8020.2	5679.8	2904.1	1601.9	1398.5	1419.9	1551.9	1684.0	1716.1
30°	11502.2	10178.6	7545.7	4752.2	1865.9	1277.2	1213.0	1245.1	1316.5	1384.3	1412.8
32.5°	11987.4	10335.6	7085.4	3738.9	1330.7	1109.6	1095.3	1113.1	1141.7	1180.9	1191.6
35°	12554.7	10606.7	6610.9	2675.8	1098.8	1013.2	999.0	999.0	1013.2	1020.4	1023.9
37.5°	13022.1	10892.2	6165.0	1780.3	984.7	938.3	916.9	906.2	902.6	909.8	913.3
40°	13225.4	11009.9	5679.8	1295.1	902.6	870.5	838.4	806.3	806.3	831.3	834.8
42.5°	13082.7	10877.9	5119.6	1070.3	845.5	799.2	749.2	720.7	734.9	759.9	767.1
45°	12779.5	10553.2	4502.4	945.4	788.5	727.8	670.7	652.9	667.2	699.3	706.4
47.5°	12729.5	10339.2	3763.9	863.4	727.8	667.2	606.5	588.7	606.5	631.5	638.6
50°	13225.4	10524.7	2943.3	792.0	670.7	602.9	553.0	535.2	545.9	560.1	567.3
52.5°	14131.6	11213.3	2376.1	724.2	602.9	538.7	506.6	485.2	485.2	499.5	503.0
55°	15469.5	12415.6	2051.4	645.8	524.5	488.8	460.2	438.8	438.8	446.0	449.5
57.5°	17010.8	13871.2	2126.3	542.3	460.2	442.4	417.4	399.6	406.7	406.7	406.7
60°	16796.7	13764.2	2276.2	456.7	406.7	399.6	378.2	371.0	388.9	374.6	367.5
62.5°	12372.8	9507.9	1191.6	374.6	349.6	342.5	328.2	342.5	367.5	328.2	314.0
65°	6008.0	4602.3	478.1	306.8	296.1	289.0	281.8	303.3	317.5	256.9	242.6
67.5°	1412.8	1148.8	310.4	260.4	246.2	231.9	239.0	242.6	231.9	174.8	167.7
70°	367.5	360.3	242.6	217.6	196.2	182.0	182.0	178.4	153.4	110.6	103.5
72.5°	199.8	196.2	174.8	164.1	135.6	121.3	124.9	110.6	85.6	64.2	60.7
75°	99.9	107.0	99.9	92.8	74.9	67.8	67.8	60.7	42.8	25.0	25.0
77.5°	21.4	25.0	25.0	21.4	17.8	14.3	14.3	17.8	7.1	0.0	0.0
80°	3.6	3.6	3.6	3.6	3.6	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)