

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: P643799

Luminaire Tested: GWS-SA6F-760-U-AFL-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P643799
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-48)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SAGF-760-U-AFL-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND
AUTOMOTIVE FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: (96) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42108.3 lumens
Efficiency: N/A
Efficacy: 113.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

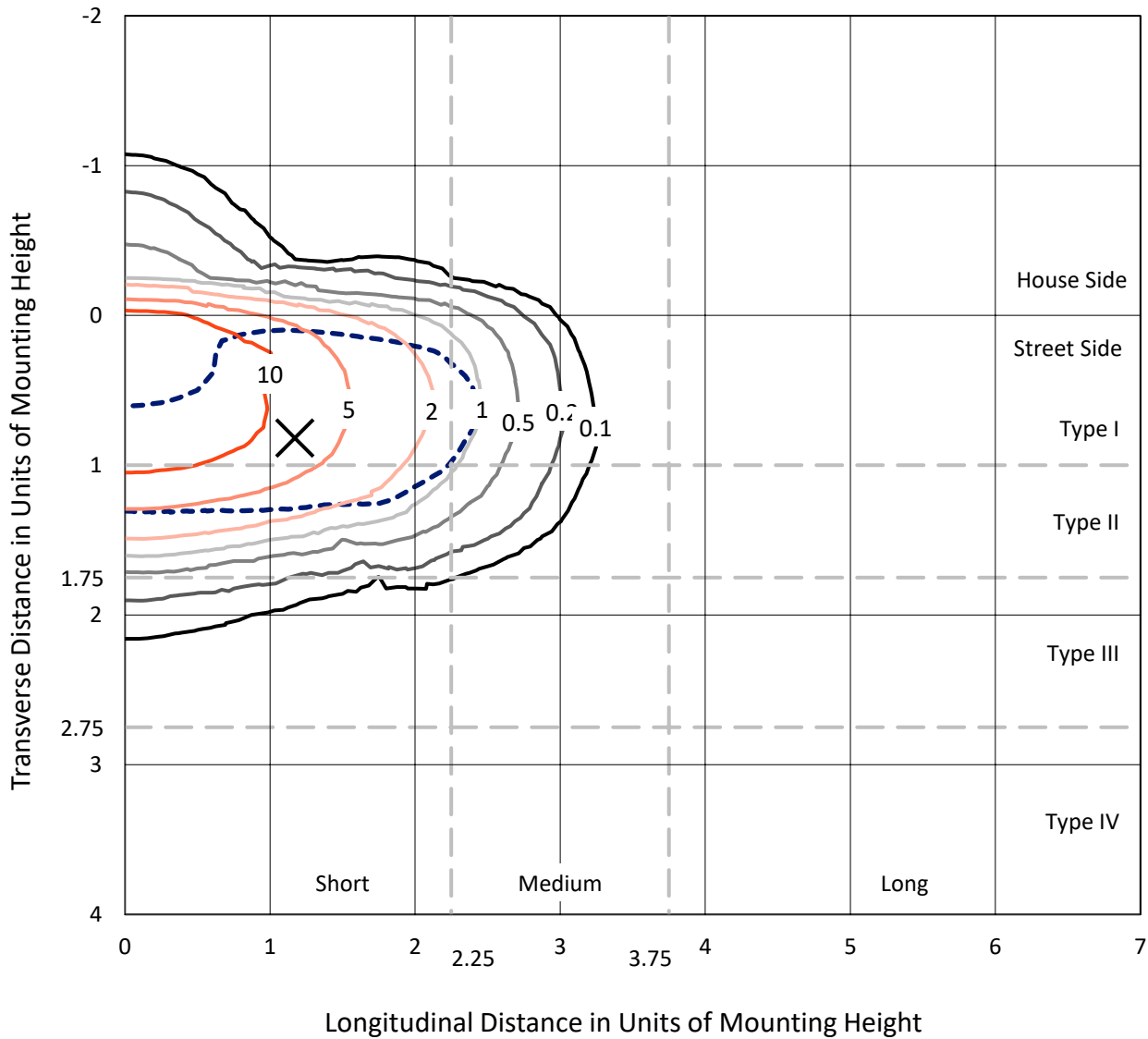
Input Watts (W): 372.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

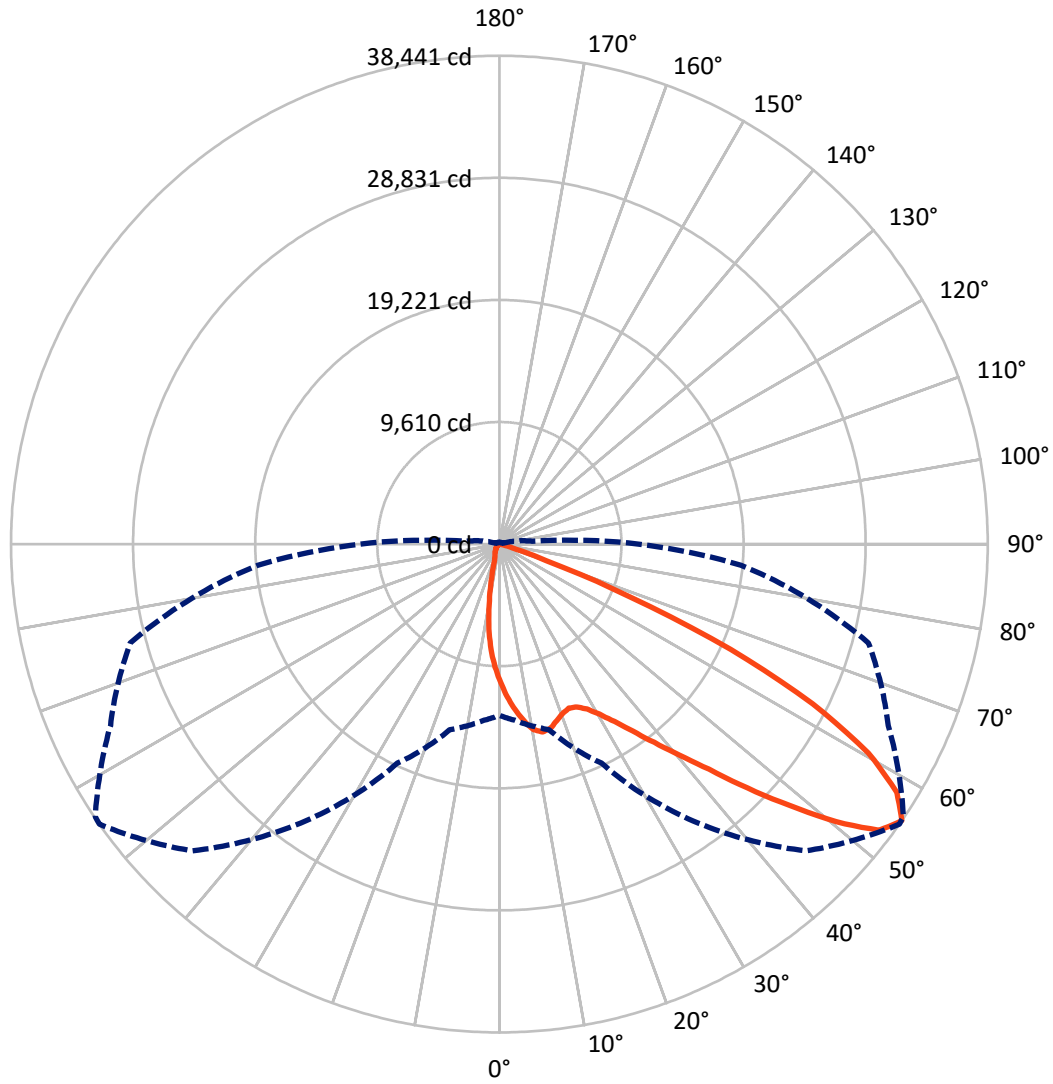
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 15.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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

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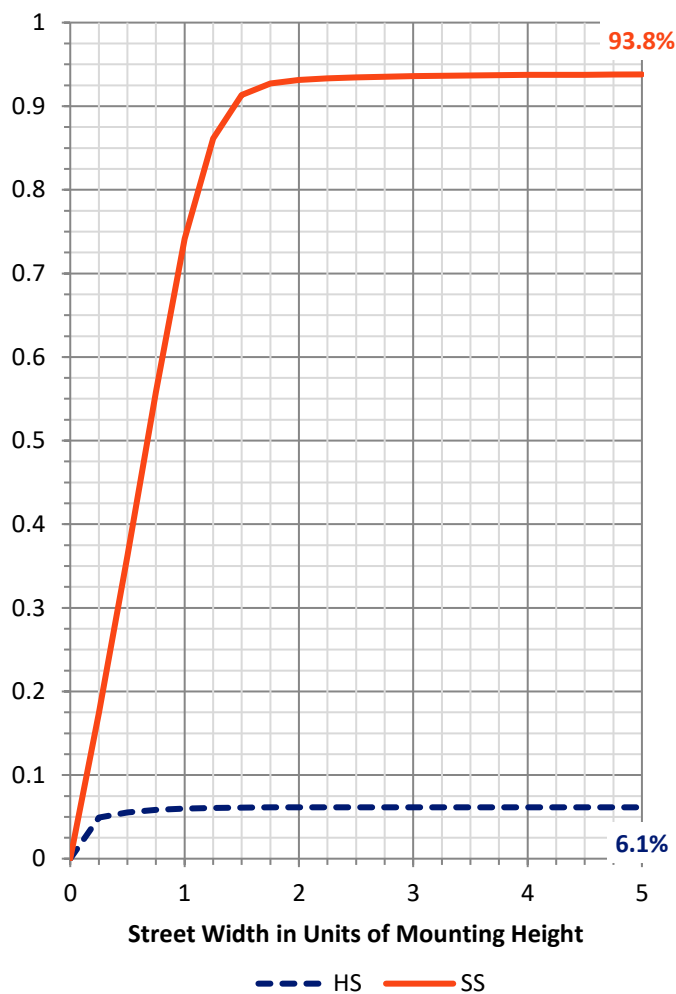
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2598.3	0.0	2598.3
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	39510.0	0.0	39510.0
	% Fixture	93.8	0.0	93.8
Total	Lumens	42108.3	0.0	42108.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	961.4	2.3
10°-20°	2317.8	5.5
20°-30°	3860.0	9.2
30°-40°	6577.7	15.6
40°-50°	10737.1	25.5
50°-60°	11241.2	26.7
60°-70°	5669.8	13.5
70°-80°	716.2	1.7
80°-90°	27.2	0.1
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°	42108.3	100.0
0°-180°	42108.3	100.0

Coefficient of Utilization



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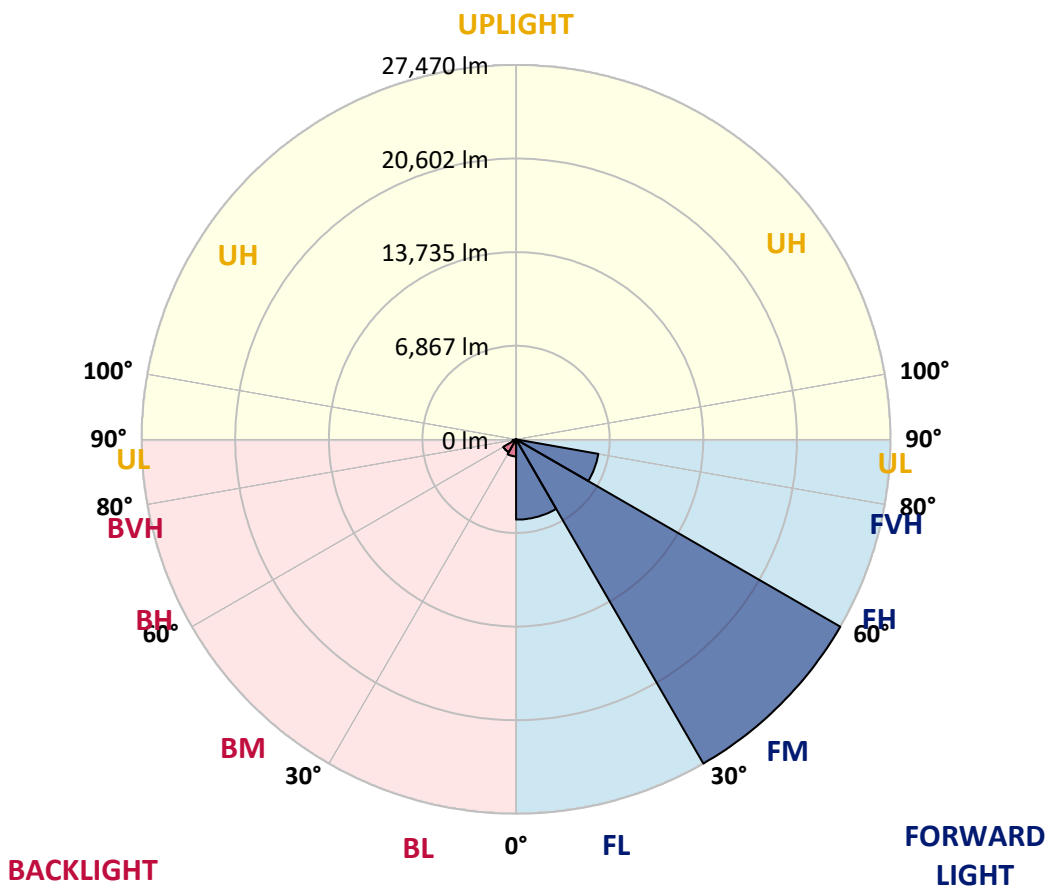
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5890.4	14.0			
FM (30°-60°)	27469.6	65.2			
FH (60°-80°)	6125.4	14.5			G3/7500
FVH (80°-90°)	24.7	0.1			G1/100
BL (0°-30°)	1248.8	3.0	B3/2500		
BM (30°-60°)	1086.4	2.6	B2/2500		
BH (60°-80°)	260.6	0.6	B1/500		G1/500
BVH (80°-90°)	2.5	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-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	10878.3	10878.3	10878.3	10878.3	10878.3	10878.3	10878.3	10878.3	10878.3	10878.3	10878.3
2.5°	12681.8	12620.6	12714.2	12606.2	12422.6	12267.8	12066.2	11994.2	11670.3	11364.3	11069.1
5°	14222.4	14240.4	14211.6	14060.5	13801.3	13513.3	13106.5	13016.5	12451.4	11868.2	11238.3
7.5°	14604.0	14593.2	14654.4	14712.0	14668.8	14524.8	14082.1	13992.1	13290.1	12415.4	11497.5
10°	13426.9	13434.1	13560.1	13948.9	14431.2	14931.6	14863.2	14812.8	14125.3	13034.5	11785.4
12.5°	11763.8	11828.6	11961.8	12516.2	13333.3	14470.8	15176.4	15226.8	14892.0	13714.9	12123.8
15°	11043.9	11058.3	11166.3	11501.1	12109.4	13513.3	15043.2	15183.6	15532.7	14398.8	12491.0
17.5°	11025.9	11043.9	11090.7	11238.3	11634.3	12761.0	14614.8	14859.6	16015.1	15133.2	12930.2
20°	11702.7	11691.9	11659.5	11580.3	11753.0	12512.6	14218.8	14488.8	16277.9	15849.5	13372.9
22.5°	12930.2	12915.8	12771.8	12444.2	12303.8	12739.4	14024.5	14269.2	16436.3	16486.7	13736.5
25°	14344.8	14445.6	14175.7	13678.9	13333.3	13318.9	14197.2	14370.0	16573.1	17051.8	13984.9
27.5°	15896.3	15928.7	15698.3	15140.4	14640.0	14247.6	14697.6	14827.2	16724.2	17555.8	14125.3
30°	17599.0	17588.2	17325.4	16677.4	16069.1	15503.9	15539.9	15590.3	17077.0	18131.7	14280.0
32.5°	19726.4	19773.2	19305.2	18423.3	17692.6	16911.4	16641.5	16648.7	17714.2	18873.3	14514.0
35°	22617.0	22501.8	21882.6	20626.3	19380.8	18538.5	18077.7	18038.1	18696.9	19870.4	14920.8
37.5°	25370.7	25381.5	24733.6	23351.3	21778.2	20449.9	19798.4	19690.4	20079.2	21252.7	15597.5
40°	27282.2	27318.2	27048.2	26324.7	24658.0	22779.0	21821.4	21709.8	21871.8	23002.1	16483.1
42.5°	28293.7	28394.5	28470.1	28639.3	27375.8	25687.5	24215.2	24204.4	24035.3	24996.4	17509.0
45°	28333.3	28484.5	28945.3	30100.8	30244.7	29006.4	27404.6	27163.4	26511.9	27131.0	18426.9
47.5°	26767.4	27116.6	28095.7	30385.1	31897.0	32307.4	30719.9	30572.3	28743.7	28819.3	19114.5
50°	23117.3	23480.9	25284.4	28927.3	32314.6	34928.0	34359.2	34053.2	30608.3	29935.2	19445.6
52.5°	19373.6	19704.8	20928.7	25457.1	30583.1	35752.3	37426.2	37062.6	32282.2	30323.9	19308.8
55°	13480.9	13923.7	15118.8	19028.1	26594.6	34146.8	38441.3	38365.7	33776.1	30079.2	19096.5
57.5°	6609.1	7048.2	8239.7	11731.4	19701.2	29812.8	36889.8	37289.4	34668.8	29816.4	18923.7
60°	2761.0	2941.0	3351.3	5147.6	11022.3	22530.6	33387.3	33941.6	34121.6	29460.0	18905.7
62.5°	1601.9	1630.7	1673.9	2134.6	4287.3	12915.8	27696.2	28484.5	31245.5	28988.5	18621.3
65°	1209.5	1220.3	1202.3	1310.3	1771.1	4899.2	20010.8	21083.5	26079.9	27145.4	17498.2
67.5°	993.5	993.5	946.7	968.3	1112.3	1835.9	11047.5	12545.0	19298.0	22311.0	14449.2
70°	791.9	809.9	788.3	759.5	795.5	1015.1	3930.9	4874.0	11238.3	13174.9	8426.9
72.5°	601.2	601.2	637.1	615.6	590.4	637.1	1371.5	1540.7	4510.4	5493.2	3041.8
75°	464.4	478.8	504.0	482.4	446.4	378.0	658.7	698.3	1360.7	1277.9	680.3
77.5°	237.6	241.2	320.4	352.8	331.2	230.4	288.0	316.8	442.8	396.0	252.0
80°	144.0	151.2	180.0	277.2	219.6	122.4	118.8	126.0	208.8	180.0	104.4
82.5°	61.2	64.8	100.8	100.8	90.0	46.8	46.8	46.8	100.8	93.6	43.2
85°	0.0	0.0	18.0	14.4	14.4	18.0	18.0	18.0	25.2	36.0	21.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.6	10.8	10.8
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°	10878.3	10878.3	10878.3	10878.3	10878.3	10878.3	10878.3	10878.3	10878.3	10878.3	10878.3
2.5°	10878.3	10647.9	10338.4	10057.6	9679.6	9467.2	9172.1	8930.9	8725.7	8660.9	8632.1
5°	10881.9	10486.0	9823.6	9161.3	8347.7	7707.0	7048.2	6526.3	6097.9	5961.1	5925.1
7.5°	10953.9	10370.8	9298.0	8095.7	6735.1	5611.9	4607.6	3707.7	3290.1	3149.7	3120.9
10°	11051.1	10273.6	8689.7	6817.8	4863.2	3419.7	2422.6	1846.7	1573.1	1421.9	1443.5
12.5°	11177.1	10194.4	8016.6	5435.6	3218.1	1879.0	1331.9	1115.9	1058.3	1029.5	1015.1
15°	11346.3	10100.8	7181.4	4064.1	1972.6	1209.5	1025.9	968.3	946.7	932.3	928.7
17.5°	11519.1	9992.8	6331.9	2858.2	1310.3	1004.3	921.5	892.7	878.3	867.5	863.9
20°	11702.7	9809.2	5334.8	1969.0	1033.1	903.5	849.5	817.1	799.1	781.1	777.5
22.5°	11781.8	9514.0	4380.8	1378.7	917.9	831.5	763.1	723.5	701.9	687.5	687.5
25°	11706.3	9035.3	3394.5	1047.5	835.1	752.3	683.9	640.7	622.7	608.4	608.4
27.5°	11504.7	8419.7	2476.6	867.5	745.1	669.5	604.8	565.2	550.8	543.6	543.6
30°	11281.5	7642.2	1745.9	745.1	644.3	583.2	529.2	504.0	500.4	493.2	493.2
32.5°	11090.7	6915.0	1202.3	655.1	568.8	507.6	471.6	460.8	464.4	457.2	460.8
35°	10986.3	6202.3	892.7	583.2	507.6	450.0	432.0	432.0	432.0	428.4	428.4
37.5°	11029.5	5500.4	727.1	532.8	453.6	410.4	392.4	399.6	406.8	406.8	406.8
40°	11245.5	4877.6	644.3	486.0	406.8	374.4	360.0	370.8	381.6	388.8	388.8
42.5°	11519.1	4373.6	583.2	446.4	374.4	338.4	331.2	342.0	352.8	360.0	360.0
45°	11691.9	3866.1	522.0	396.0	342.0	298.8	298.8	313.2	309.6	313.2	313.2
47.5°	11771.0	3462.9	460.8	342.0	291.6	259.2	262.8	270.0	262.8	270.0	270.0
50°	11576.7	3056.2	406.8	284.4	241.2	226.8	234.0	230.4	230.4	244.8	244.8
52.5°	11220.3	2753.8	360.0	241.2	205.2	201.6	208.8	194.4	198.0	198.0	194.4
55°	10957.5	2581.0	320.4	208.8	176.4	180.0	176.4	151.2	136.8	122.4	118.8
57.5°	10827.9	2512.6	291.6	187.2	158.4	158.4	144.0	104.4	79.2	61.2	54.0
60°	10799.1	2429.8	262.8	162.0	140.4	133.2	104.4	61.2	39.6	28.8	25.2
62.5°	10525.5	2228.2	237.6	129.6	122.4	108.0	64.8	36.0	21.6	14.4	10.8
65°	9629.2	1832.3	212.4	100.8	93.6	79.2	39.6	21.6	10.8	3.6	0.0
67.5°	7660.2	1299.5	187.2	75.6	64.8	50.4	25.2	14.4	3.6	0.0	0.0
70°	4416.8	701.9	154.8	54.0	43.2	32.4	18.0	7.2	0.0	0.0	0.0
72.5°	1475.9	327.6	118.8	36.0	32.4	25.2	10.8	3.6	0.0	0.0	0.0
75°	324.0	194.4	79.2	25.2	21.6	18.0	7.2	0.0	0.0	0.0	0.0
77.5°	122.4	136.8	39.6	18.0	14.4	10.8	3.6	0.0	0.0	0.0	0.0
80°	46.8	90.0	18.0	10.8	10.8	3.6	0.0	0.0	0.0	0.0	0.0
82.5°	25.2	36.0	10.8	7.2	7.2	0.0	0.0	0.0	0.0	0.0	0.0
85°	14.4	18.0	7.2	3.6	3.6	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.2	3.6	3.6	3.6	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)