

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: P642589

Luminaire Tested: GWS-SA6D-730-U-AFL-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P642589  
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-SA6D-730-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) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

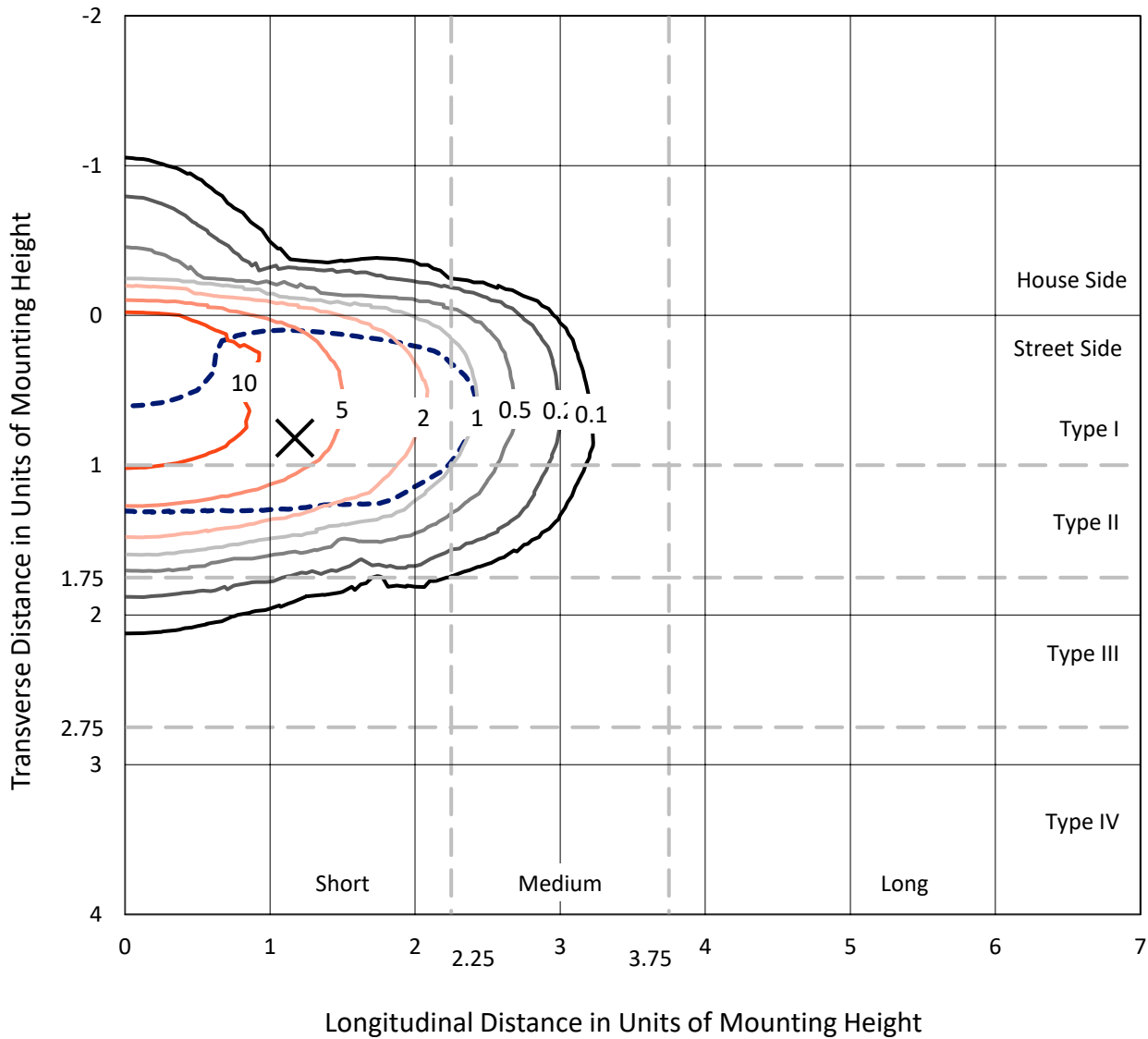
Lumens per Lamp: N/A  
Luminaire Lumens: 27354.8 lumens  
Efficiency: N/A  
Efficacy: 111.3 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 245.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

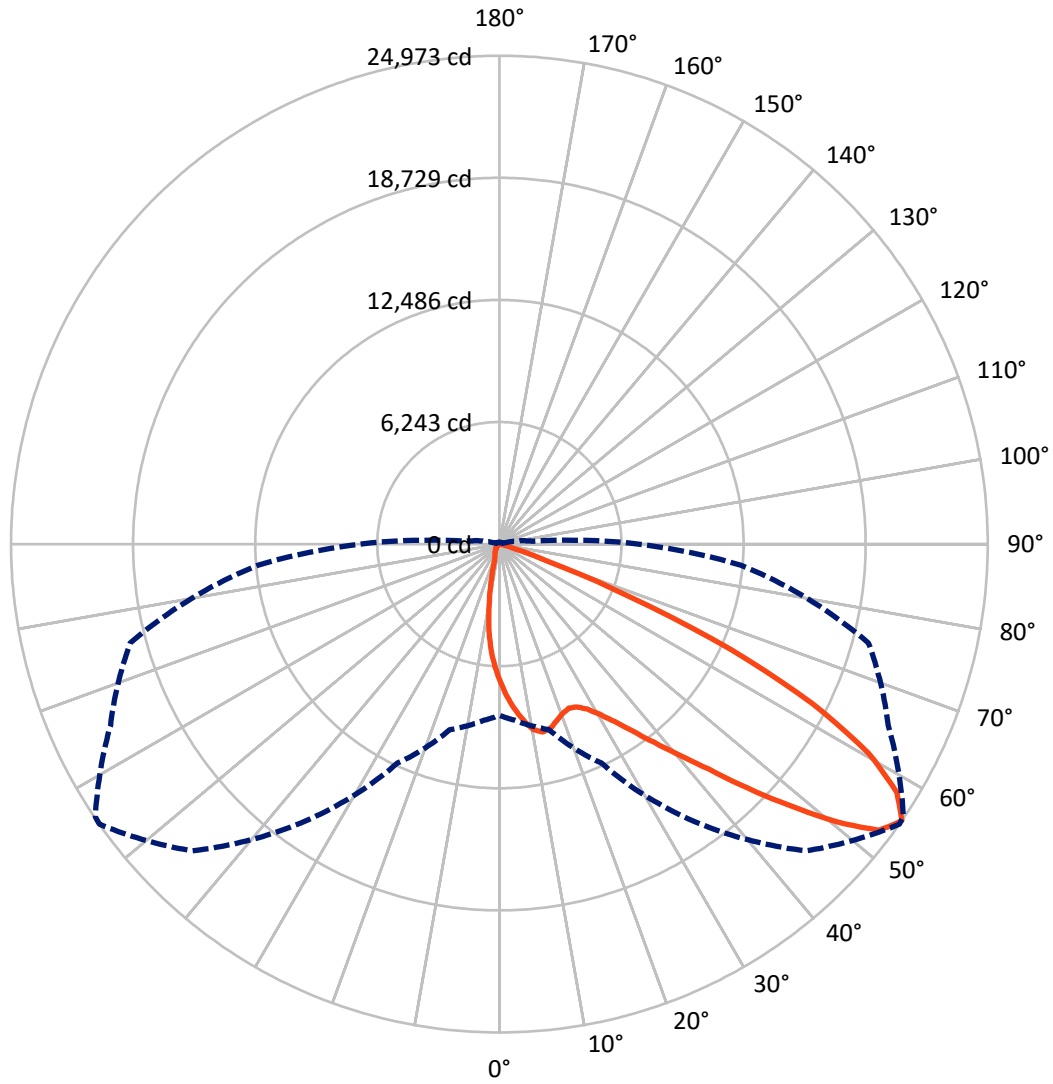
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.8 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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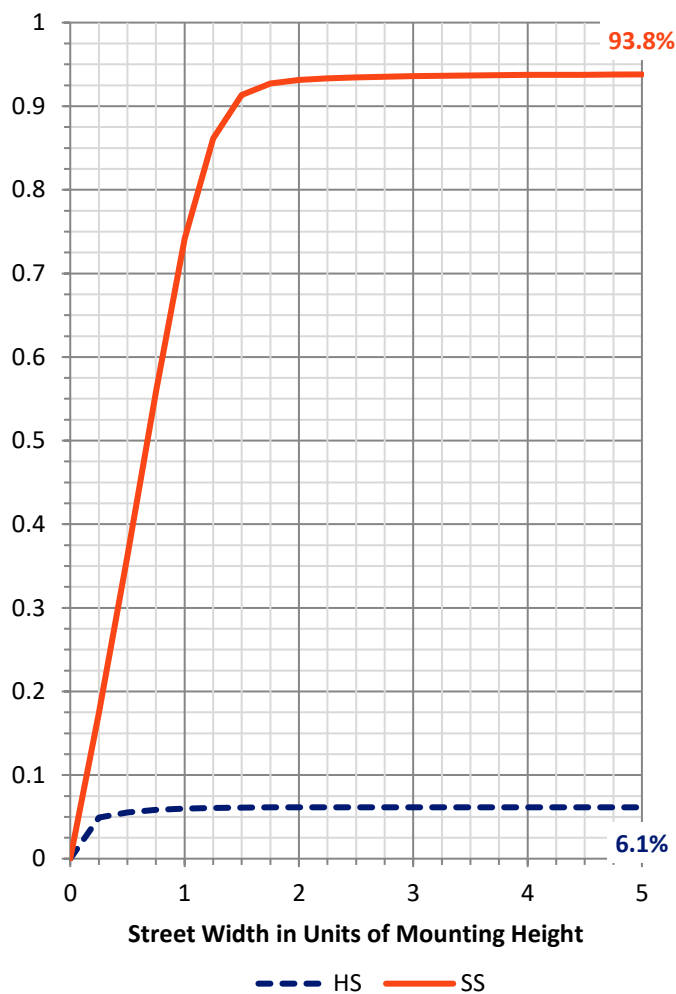
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1687.9	0.0	1687.9
	% Fixture	6.2	0.0	6.2
<b>Street Side</b>	Lumens	25666.9	0.0	25666.9
	% Fixture	93.8	0.0	93.8
<b>Total</b>	Lumens	27354.8	0.0	27354.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	624.5	2.3
10°-20°	1505.7	5.5
20°-30°	2507.6	9.2
30°-40°	4273.1	15.6
40°-50°	6975.1	25.5
50°-60°	7302.6	26.7
60°-70°	3683.3	13.5
70°-80°	465.2	1.7
80°-90°	17.7	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°	27354.8	100.0
0°-180°	27354.8	100.0

**Coefficient of Utilization**



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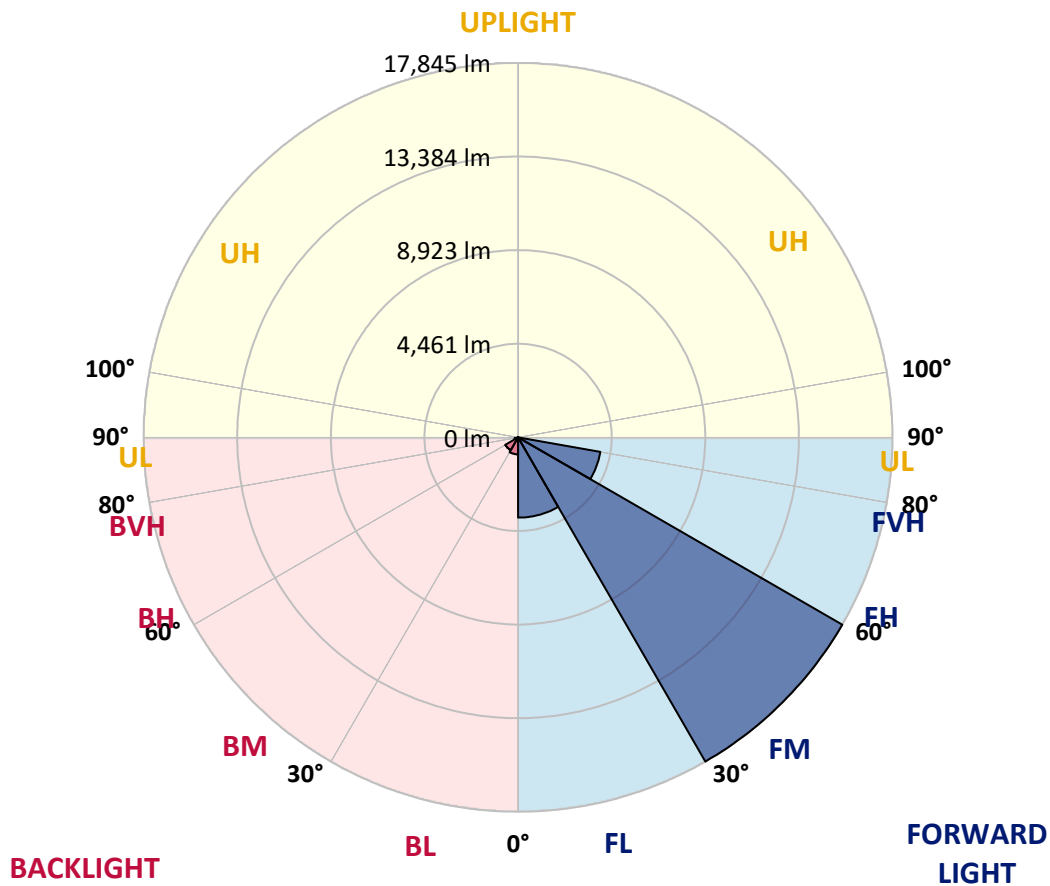
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3826.6	14.0			
FM (30°-60°)	17845.1	65.2			
FH (60°-80°)	3979.2	14.5			G2/5000
FVH (80°-90°)	16.1	0.1			G1/100
BL (0°-30°)	811.3	3.0	B2/1000		
BM (30°-60°)	705.7	2.6	B1/1000		
BH (60°-80°)	169.3	0.6	B1/500		G1/500
BVH (80°-90°)	1.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	7066.9	7066.9	7066.9	7066.9	7066.9	7066.9	7066.9	7066.9	7066.9	7066.9	7066.9
2.5°	8238.5	8198.7	8259.5	8189.3	8070.1	7969.5	7838.6	7791.8	7581.3	7382.6	7190.8
5°	9239.3	9251.0	9232.3	9134.1	8965.7	8778.6	8514.4	8455.9	8088.8	7710.0	7300.7
7.5°	9487.2	9480.2	9519.9	9557.4	9529.3	9435.8	9148.1	9089.7	8633.7	8065.4	7469.1
10°	8722.5	8727.2	8809.0	9061.6	9375.0	9700.0	9655.6	9622.8	9176.2	8467.6	7656.2
12.5°	7642.1	7684.2	7770.8	8130.9	8661.7	9400.7	9859.0	9891.8	9674.3	8909.6	7876.0
15°	7174.4	7183.8	7254.0	7471.4	7866.6	8778.6	9772.5	9863.7	10090.5	9353.9	8114.5
17.5°	7162.8	7174.4	7204.8	7300.7	7558.0	8289.9	9494.2	9653.2	10403.9	9831.0	8399.8
20°	7602.4	7595.4	7574.3	7522.9	7635.1	8128.5	9237.0	9412.4	10574.6	10296.3	8687.4
22.5°	8399.8	8390.5	8296.9	8084.1	7992.9	8275.9	9110.7	9269.7	10677.5	10710.2	8923.6
25°	9318.8	9384.3	9208.9	8886.2	8661.7	8652.4	9223.0	9335.2	10766.3	11077.4	9085.0
27.5°	10326.7	10347.8	10198.1	9835.6	9510.6	9255.7	9548.0	9632.2	10864.6	11404.8	9176.2
30°	11432.8	11425.8	11255.1	10834.2	10439.0	10071.8	10095.2	10127.9	11093.7	11778.9	9276.7
32.5°	12814.9	12845.3	12541.3	11968.3	11493.6	10986.2	10810.8	10815.5	11507.6	12260.6	9428.7
35°	14692.7	14617.8	14215.6	13399.5	12590.4	12043.2	11743.8	11718.1	12146.1	12908.4	9693.0
37.5°	16481.6	16488.6	16067.7	15169.7	14147.8	13284.9	12861.6	12791.5	13044.0	13806.4	10132.6
40°	17723.3	17746.7	17571.3	17101.3	16018.6	14797.9	14175.8	14103.4	14208.6	14942.9	10707.9
42.5°	18380.4	18445.9	18495.0	18604.9	17784.1	16687.4	15730.9	15723.9	15614.0	16238.4	11374.4
45°	18406.2	18504.4	18803.7	19554.3	19647.9	18843.4	17802.8	17646.1	17222.9	17625.1	11970.7
47.5°	17388.9	17615.7	18251.8	19739.1	20721.2	20987.8	19956.6	19860.7	18672.7	18721.8	12417.3
50°	15017.7	15253.9	16425.5	18792.0	20992.5	22690.2	22320.8	22122.0	19884.1	19446.8	12632.5
52.5°	12585.7	12800.8	13595.9	16537.7	19867.7	23225.8	24313.1	24077.0	20971.5	19699.3	12543.6
55°	8757.6	9045.2	9821.6	12361.2	17276.7	22182.8	24972.6	24923.5	21941.9	19540.3	12405.6
57.5°	4293.4	4578.7	5352.8	7621.1	12798.5	19367.3	23964.7	24224.3	22521.9	19369.6	12293.4
60°	1793.6	1910.5	2177.1	3344.0	7160.4	14636.5	21689.4	22049.5	22166.4	19138.1	12281.7
62.5°	1040.6	1059.3	1087.4	1386.7	2785.1	8390.5	17992.2	18504.4	20298.0	18831.8	12096.9
65°	785.7	792.7	781.1	851.2	1150.5	3182.7	12999.6	13696.5	16942.3	17634.5	11367.3
67.5°	645.4	645.4	615.0	629.1	722.6	1192.6	7176.8	8149.6	12536.6	14493.9	9386.6
70°	514.5	526.2	512.1	493.4	516.8	659.5	2553.6	3166.3	7300.7	8558.8	5474.4
72.5°	390.5	390.5	413.9	399.9	383.5	413.9	891.0	1000.9	2930.1	3568.5	1976.0
75°	301.7	311.0	327.4	313.4	290.0	245.5	427.9	453.7	883.9	830.2	442.0
77.5°	154.3	156.7	208.1	229.2	215.1	149.7	187.1	205.8	287.6	257.2	163.7
80°	93.5	98.2	116.9	180.1	142.6	79.5	77.2	81.8	135.6	116.9	67.8
82.5°	39.8	42.1	65.5	65.5	58.5	30.4	30.4	30.4	65.5	60.8	28.1
85°	0.0	0.0	11.7	9.4	9.4	11.7	11.7	11.7	16.4	23.4	14.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	7.0	7.0
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°	7066.9	7066.9	7066.9	7066.9	7066.9	7066.9	7066.9	7066.9	7066.9	7066.9	7066.9
2.5°	7066.9	6917.2	6716.1	6533.7	6288.2	6150.2	5958.4	5801.8	5668.5	5626.4	5607.7
5°	7069.2	6812.0	6381.7	5951.4	5422.9	5006.7	4578.7	4239.7	3961.4	3872.5	3849.1
7.5°	7116.0	6737.2	6040.3	5259.2	4375.3	3645.7	2993.3	2408.6	2137.4	2046.2	2027.5
10°	7179.1	6674.0	5645.1	4429.1	3159.3	2221.6	1573.8	1199.6	1021.9	923.7	937.7
12.5°	7261.0	6622.6	5207.8	3531.1	2090.6	1220.7	865.2	724.9	687.5	668.8	659.5
15°	7370.9	6561.8	4665.3	2640.1	1281.5	785.7	666.5	629.1	615.0	605.7	603.3
17.5°	7483.1	6491.6	4113.4	1856.8	851.2	652.4	598.7	579.9	570.6	563.6	561.2
20°	7602.4	6372.4	3465.6	1279.1	671.1	587.0	551.9	530.8	519.1	507.4	505.1
22.5°	7653.8	6180.6	2845.9	895.6	596.3	540.2	495.8	470.0	456.0	446.6	446.6
25°	7604.7	5869.6	2205.2	680.5	542.5	488.7	444.3	416.2	404.6	395.2	395.2
27.5°	7473.8	5469.7	1608.9	563.6	484.1	435.0	392.9	367.1	357.8	353.1	353.1
30°	7328.8	4964.6	1134.2	484.1	418.6	378.8	343.8	327.4	325.0	320.4	320.4
32.5°	7204.8	4492.2	781.1	425.6	369.5	329.7	306.3	299.3	301.7	297.0	299.3
35°	7137.0	4029.2	579.9	378.8	329.7	292.3	280.6	280.6	280.6	278.3	278.3
37.5°	7165.1	3573.2	472.4	346.1	294.6	266.6	254.9	259.6	264.2	264.2	264.2
40°	7305.4	3168.6	418.6	315.7	264.2	243.2	233.8	240.9	247.9	252.6	252.6
42.5°	7483.1	2841.2	378.8	290.0	243.2	219.8	215.1	222.2	229.2	233.8	233.8
45°	7595.4	2511.5	339.1	257.2	222.2	194.1	194.1	203.4	201.1	203.4	203.4
47.5°	7646.8	2249.6	299.3	222.2	189.4	168.4	170.7	175.4	170.7	175.4	175.4
50°	7520.5	1985.4	264.2	184.7	156.7	147.3	152.0	149.7	149.7	159.0	159.0
52.5°	7289.0	1788.9	233.8	156.7	133.3	131.0	135.6	126.3	128.6	128.6	126.3
55°	7118.3	1676.7	208.1	135.6	114.6	116.9	114.6	98.2	88.9	79.5	77.2
57.5°	7034.1	1632.3	189.4	121.6	102.9	102.9	93.5	67.8	51.4	39.8	35.1
60°	7015.4	1578.5	170.7	105.2	91.2	86.5	67.8	39.8	25.7	18.7	16.4
62.5°	6837.7	1447.5	154.3	84.2	79.5	70.2	42.1	23.4	14.0	9.4	7.0
65°	6255.4	1190.3	138.0	65.5	60.8	51.4	25.7	14.0	7.0	2.3	0.0
67.5°	4976.3	844.2	121.6	49.1	42.1	32.7	16.4	9.4	2.3	0.0	0.0
70°	2869.3	456.0	100.6	35.1	28.1	21.0	11.7	4.7	0.0	0.0	0.0
72.5°	958.8	212.8	77.2	23.4	21.0	16.4	7.0	2.3	0.0	0.0	0.0
75°	210.5	126.3	51.4	16.4	14.0	11.7	4.7	0.0	0.0	0.0	0.0
77.5°	79.5	88.9	25.7	11.7	9.4	7.0	2.3	0.0	0.0	0.0	0.0
80°	30.4	58.5	11.7	7.0	7.0	2.3	0.0	0.0	0.0	0.0	0.0
82.5°	16.4	23.4	7.0	4.7	4.7	0.0	0.0	0.0	0.0	0.0	0.0
85°	9.4	11.7	4.7	2.3	2.3	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.7	2.3	2.3	2.3	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)