

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: P637694

Luminaire Tested: GWS-SA4D-735-U-AFL-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P637694  
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-SA4D-735-U-AFL-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (64) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

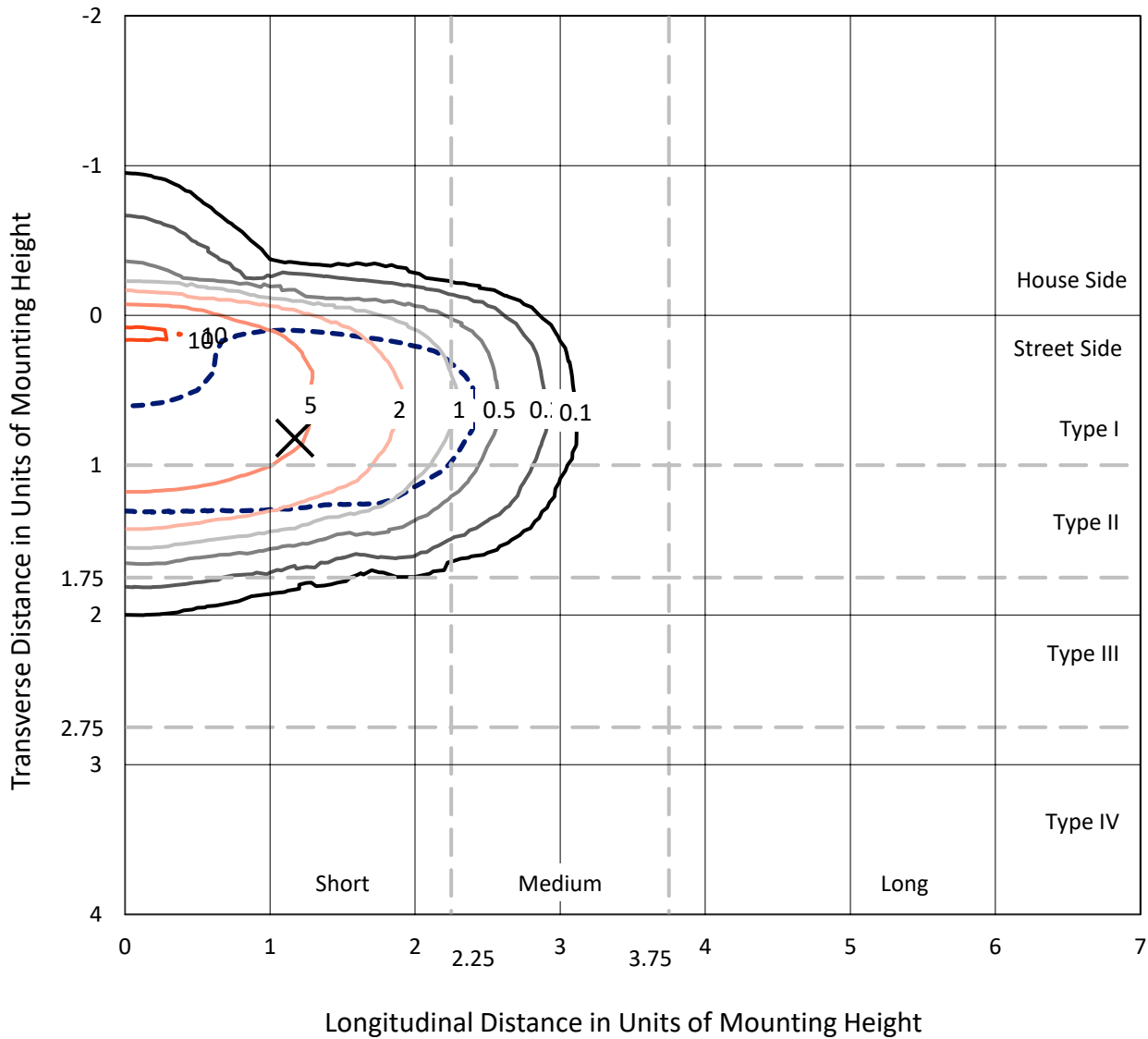
Lumens per Lamp: N/A  
Luminaire Lumens: 20254.9 lumens  
Efficiency: N/A  
Efficacy: 125.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 162.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

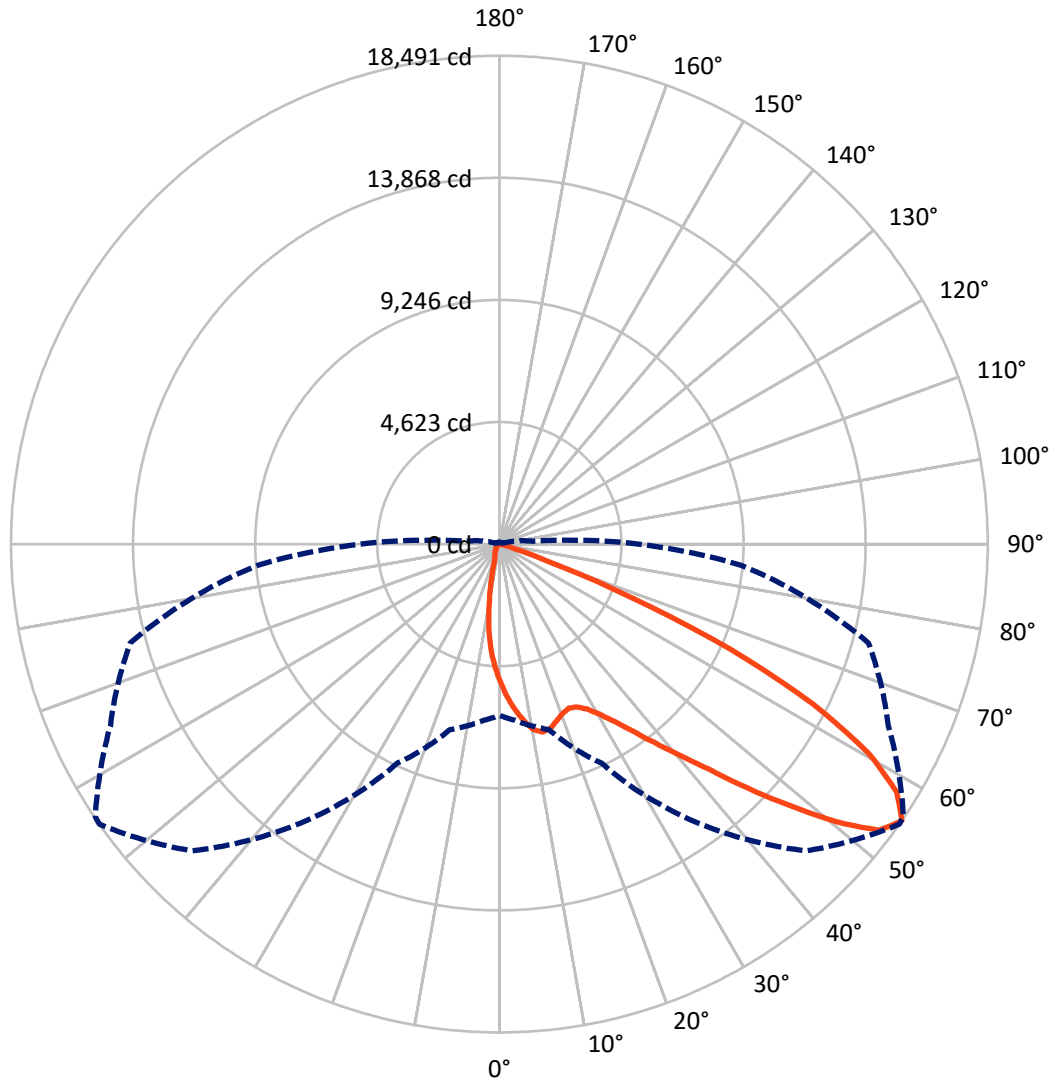
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11 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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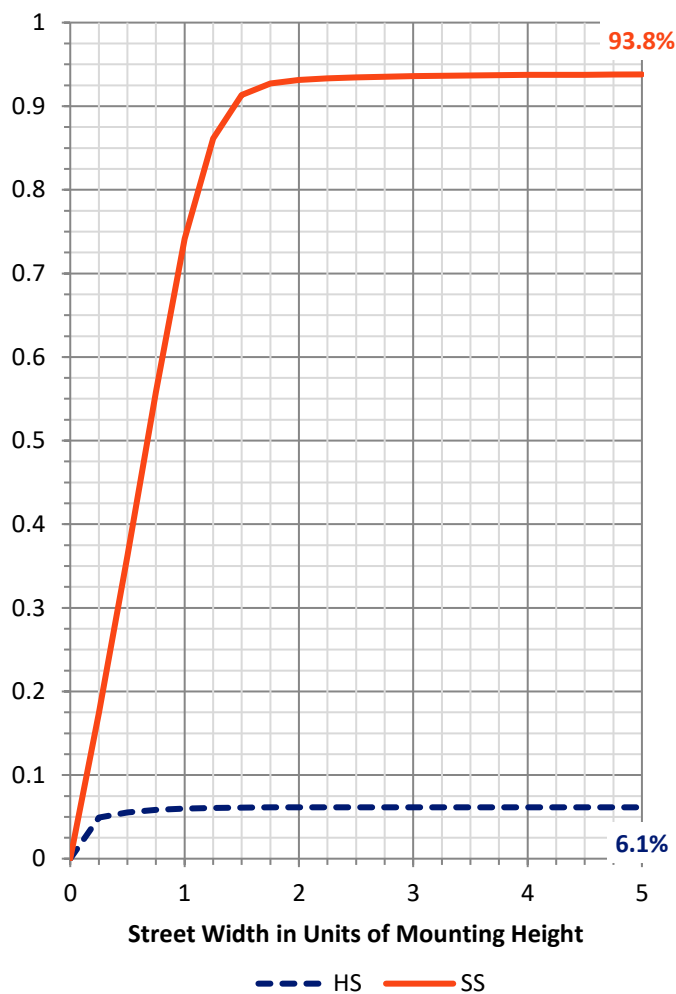
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1249.8	0.0	1249.8
	% Fixture	6.2	0.0	6.2
<b>Street Side</b>	Lumens	19005.1	0.0	19005.1
	% Fixture	93.8	0.0	93.8
<b>Total</b>	Lumens	20254.9	0.0	20254.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	462.4	2.3
10°-20°	1114.9	5.5
20°-30°	1856.7	9.2
30°-40°	3164.0	15.6
40°-50°	5164.7	25.5
50°-60°	5407.2	26.7
60°-70°	2727.3	13.5
70°-80°	344.5	1.7
80°-90°	13.1	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°	20254.9	100.0
0°-180°	20254.9	100.0

**Coefficient of Utilization**



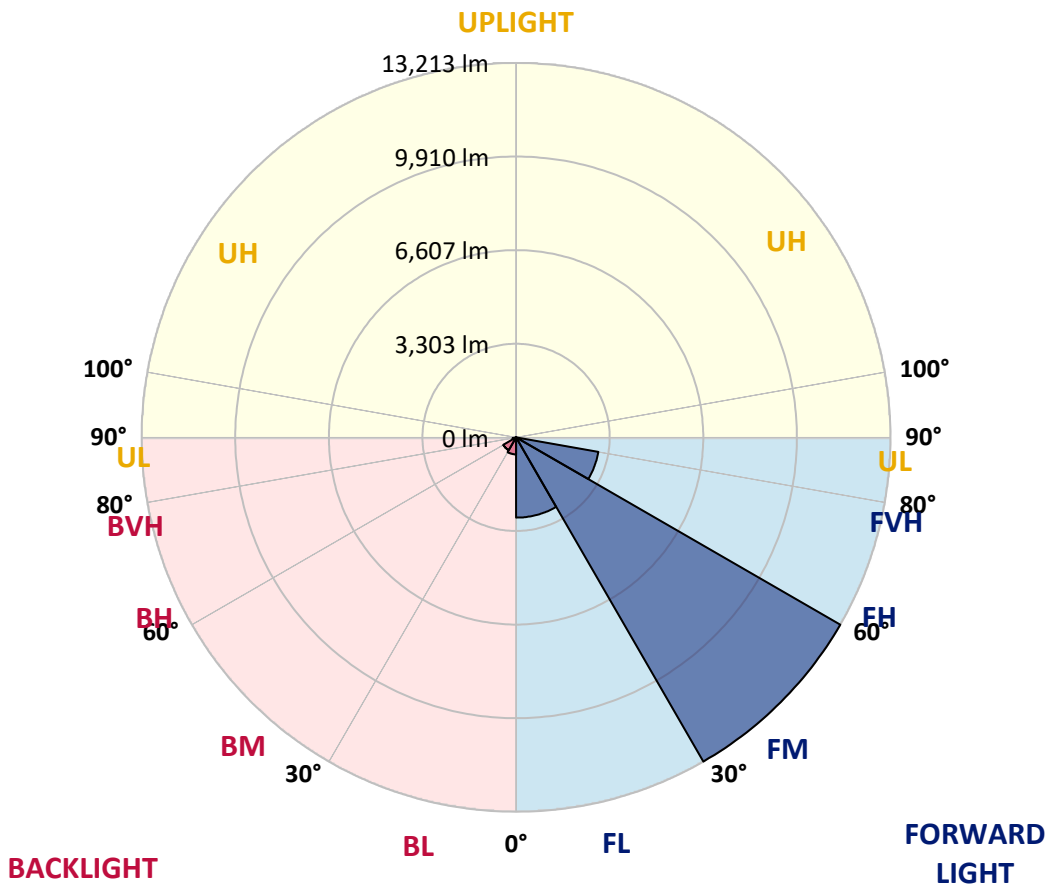
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2833.4	14.0			
FM (30°-60°)	13213.4	65.2			
FH (60°-80°)	2946.4	14.5			G2/5000
FVH (80°-90°)	11.9	0.1			G1/100
BL (0°-30°)	600.7	3.0	B2/1000		
BM (30°-60°)	522.6	2.6	B1/1000		
BH (60°-80°)	125.4	0.6	B1/500		G1/500
BVH (80°-90°)	1.2	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°	5232.7	5232.7	5232.7	5232.7	5232.7	5232.7	5232.7	5232.7	5232.7	5232.7	5232.7
2.5°	6100.2	6070.7	6115.8	6063.8	5975.5	5901.0	5804.1	5769.5	5613.6	5466.4	5324.5
5°	6841.3	6849.9	6836.1	6763.4	6638.7	6500.2	6304.5	6261.2	5989.4	5708.9	5405.8
7.5°	7024.8	7019.6	7049.1	7076.8	7056.0	6986.7	6773.7	6730.5	6392.8	5972.0	5530.5
10°	6458.6	6462.1	6522.7	6709.7	6941.7	7182.4	7149.5	7125.2	6794.5	6269.9	5669.0
12.5°	5658.6	5689.8	5753.9	6020.5	6413.6	6960.7	7300.1	7324.4	7163.3	6597.1	5831.8
15°	5312.3	5319.3	5371.2	5532.2	5824.9	6500.2	7236.1	7303.6	7471.5	6926.1	6008.4
17.5°	5303.7	5312.3	5334.8	5405.8	5596.3	6138.3	7030.0	7147.8	7703.6	7279.3	6219.7
20°	5629.2	5624.0	5608.4	5570.3	5653.4	6018.8	6839.5	6969.4	7830.0	7623.9	6432.6
22.5°	6219.7	6212.7	6143.5	5985.9	5918.4	6127.9	6746.0	6863.8	7906.2	7930.4	6607.5
25°	6900.1	6948.6	6818.8	6579.8	6413.6	6406.7	6829.1	6912.3	7972.0	8202.3	6727.0
27.5°	7646.4	7662.0	7551.2	7282.8	7042.1	6853.4	7069.8	7132.2	8044.7	8444.7	6794.5
30°	8465.4	8460.2	8333.8	8022.2	7729.5	7457.7	7475.0	7499.3	8214.4	8721.7	6869.0
32.5°	9488.8	9511.3	9286.2	8862.0	8510.5	8134.7	8004.9	8008.3	8520.9	9078.4	6981.5
35°	10879.2	10823.8	10526.0	9921.7	9322.6	8917.4	8695.7	8676.7	8993.6	9558.0	7177.2
37.5°	12203.8	12209.0	11897.3	11232.4	10475.7	9836.8	9523.4	9471.5	9658.5	10222.9	7502.7
40°	13123.3	13140.6	13010.7	12662.7	11861.0	10957.1	10496.5	10442.8	10520.8	11064.5	7928.7
42.5°	13609.8	13658.3	13694.7	13776.0	13168.3	12356.2	11648.0	11642.8	11561.4	12023.7	8422.2
45°	13628.9	13701.6	13923.2	14479.0	14548.3	13952.7	13182.1	13066.1	12752.7	13050.5	8863.7
47.5°	12875.6	13043.6	13514.6	14615.8	15343.1	15540.5	14776.9	14705.9	13826.3	13862.6	9194.4
50°	11119.9	11294.8	12162.3	13914.6	15543.9	16801.0	16527.4	16380.3	14723.2	14399.4	9353.7
52.5°	9319.1	9478.4	10067.1	12245.4	14711.1	17197.5	18002.7	17827.8	15528.3	14586.4	9287.9
55°	6484.6	6697.6	7272.4	9152.9	12792.5	16425.3	18491.0	18454.6	16246.9	14468.7	9185.8
57.5°	3179.1	3390.3	3963.5	5643.1	9476.7	14340.5	17744.7	17936.9	16676.4	14342.3	9102.6
60°	1328.1	1414.7	1612.1	2476.1	5301.9	10837.6	16059.9	16326.6	16413.2	14170.8	9094.0
62.5°	770.5	784.4	805.2	1026.8	2062.3	6212.7	13322.4	13701.6	15029.7	13944.0	8957.2
65°	581.8	587.0	578.3	630.3	851.9	2356.6	9625.6	10141.6	12544.9	13057.5	8417.0
67.5°	477.9	477.9	455.4	465.8	535.0	883.1	5314.1	6034.4	9282.7	10732.0	6950.4
70°	380.9	389.6	379.2	365.4	382.7	488.3	1890.8	2344.5	5405.8	6337.4	4053.5
72.5°	289.2	289.2	306.5	296.1	284.0	306.5	659.7	741.1	2169.6	2642.3	1463.1
75°	223.4	230.3	242.4	232.0	214.7	181.8	316.9	335.9	654.5	614.7	327.3
77.5°	114.3	116.0	154.1	169.7	159.3	110.8	138.5	152.4	213.0	190.5	121.2
80°	69.3	72.7	86.6	133.3	105.6	58.9	57.1	60.6	100.4	86.6	50.2
82.5°	29.4	31.2	48.5	48.5	43.3	22.5	22.5	22.5	48.5	45.0	20.8
85°	0.0	0.0	8.7	6.9	6.9	8.7	8.7	8.7	12.1	17.3	10.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	5.2	5.2
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°	5232.7	5232.7	5232.7	5232.7	5232.7	5232.7	5232.7	5232.7	5232.7	5232.7	5232.7
2.5°	5232.7	5121.9	4973.0	4837.9	4656.1	4553.9	4411.9	4295.9	4197.2	4166.1	4152.2
5°	5234.4	5043.9	4725.3	4406.7	4015.4	3707.2	3390.3	3139.3	2933.2	2867.4	2850.1
7.5°	5269.0	4988.5	4472.5	3894.2	3239.7	2699.5	2216.4	1783.5	1582.6	1515.1	1501.2
10°	5315.8	4941.8	4179.9	3279.5	2339.3	1645.0	1165.3	888.3	756.7	684.0	694.3
12.5°	5376.4	4903.7	3856.1	2614.6	1548.0	903.9	640.7	536.8	509.1	495.2	488.3
15°	5457.8	4858.7	3454.4	1954.9	948.9	581.8	493.5	465.8	455.4	448.5	446.7
17.5°	5540.9	4806.7	3045.8	1374.8	630.3	483.1	443.3	429.4	422.5	417.3	415.6
20°	5629.2	4718.4	2566.1	947.1	496.9	434.6	408.6	393.1	384.4	375.7	374.0
22.5°	5667.3	4576.4	2107.3	663.2	441.5	400.0	367.1	348.0	337.6	330.7	330.7
25°	5630.9	4346.1	1632.8	503.9	401.7	361.9	329.0	308.2	299.6	292.6	292.6
27.5°	5534.0	4050.0	1191.3	417.3	358.4	322.1	290.9	271.9	264.9	261.5	261.5
30°	5426.6	3676.0	839.8	358.4	309.9	280.5	254.5	242.4	240.7	237.2	237.2
32.5°	5334.8	3326.3	578.3	315.1	273.6	244.1	226.8	221.6	223.4	219.9	221.6
35°	5284.6	2983.4	429.4	280.5	244.1	216.4	207.8	207.8	207.8	206.1	206.1
37.5°	5305.4	2645.8	349.8	256.3	218.2	197.4	188.7	192.2	195.7	195.7	195.7
40°	5409.3	2346.2	309.9	233.8	195.7	180.1	173.2	178.3	183.5	187.0	187.0
42.5°	5540.9	2103.8	280.5	214.7	180.1	162.8	159.3	164.5	169.7	173.2	173.2
45°	5624.0	1859.7	251.1	190.5	164.5	143.7	143.7	150.6	148.9	150.6	150.6
47.5°	5662.1	1665.7	221.6	164.5	140.3	124.7	126.4	129.9	126.4	129.9	129.9
50°	5568.6	1470.1	195.7	136.8	116.0	109.1	112.5	110.8	110.8	117.7	117.7
52.5°	5397.2	1324.6	173.2	116.0	98.7	97.0	100.4	93.5	95.2	95.2	93.5
55°	5270.8	1241.5	154.1	100.4	84.8	86.6	84.8	72.7	65.8	58.9	57.1
57.5°	5208.4	1208.6	140.3	90.0	76.2	76.2	69.3	50.2	38.1	29.4	26.0
60°	5194.6	1168.8	126.4	77.9	67.5	64.1	50.2	29.4	19.0	13.9	12.1
62.5°	5063.0	1071.8	114.3	62.3	58.9	51.9	31.2	17.3	10.4	6.9	5.2
65°	4631.8	881.3	102.2	48.5	45.0	38.1	19.0	10.4	5.2	1.7	0.0
67.5°	3684.7	625.1	90.0	36.4	31.2	24.2	12.1	6.9	1.7	0.0	0.0
70°	2124.6	337.6	74.5	26.0	20.8	15.6	8.7	3.5	0.0	0.0	0.0
72.5°	709.9	157.6	57.1	17.3	15.6	12.1	5.2	1.7	0.0	0.0	0.0
75°	155.8	93.5	38.1	12.1	10.4	8.7	3.5	0.0	0.0	0.0	0.0
77.5°	58.9	65.8	19.0	8.7	6.9	5.2	1.7	0.0	0.0	0.0	0.0
80°	22.5	43.3	8.7	5.2	5.2	1.7	0.0	0.0	0.0	0.0	0.0
82.5°	12.1	17.3	5.2	3.5	3.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	6.9	8.7	3.5	1.7	1.7	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.5	1.7	1.7	1.7	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)