

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: P635714

Luminaire Tested: GWS-SA3E-735-U-AFL-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P635714  
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-SA3E-735-U-AFL-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND  
AUTOMOTIVE FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (48) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

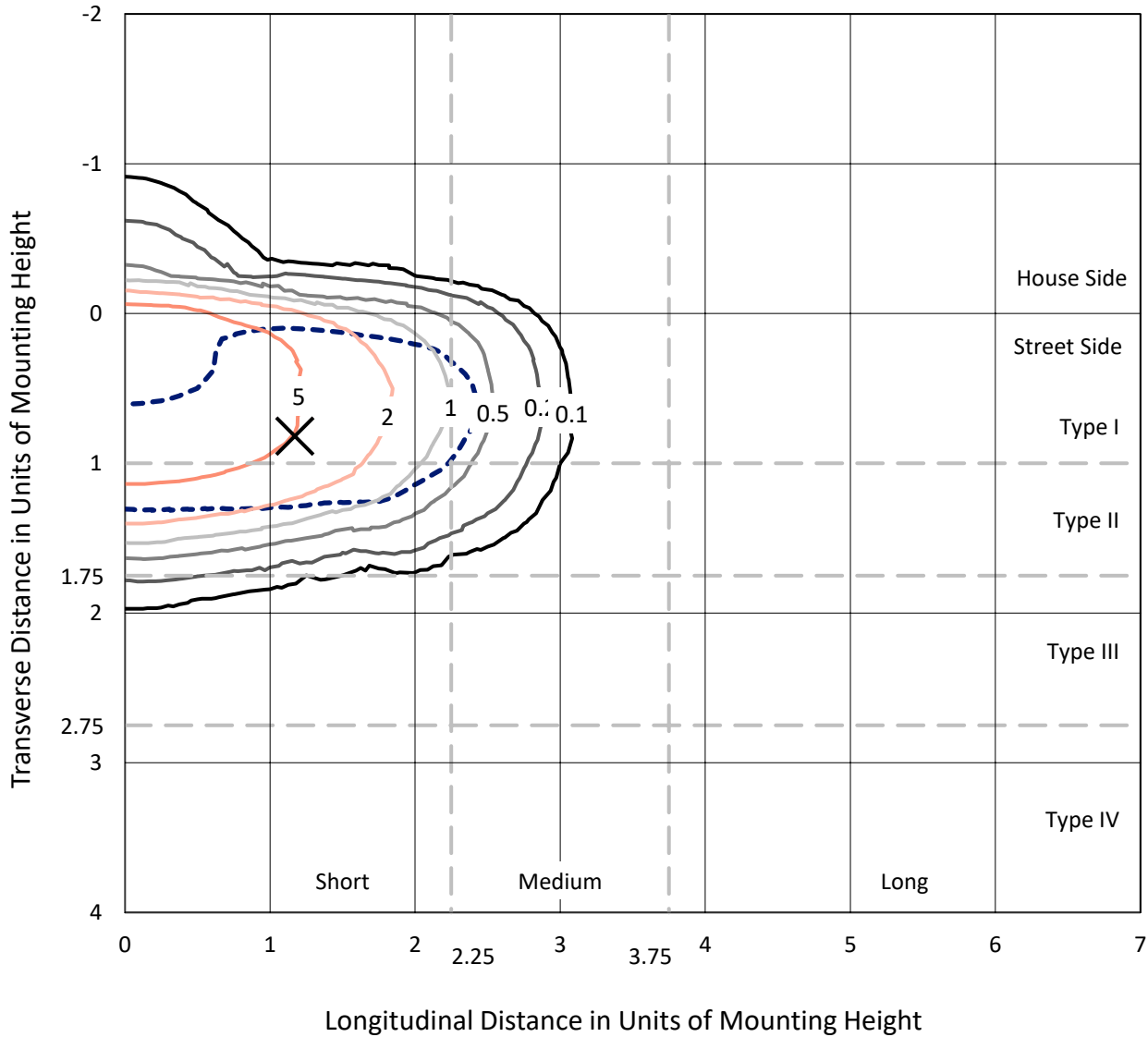
Lumens per Lamp: N/A  
Luminaire Lumens: 18189.3 lumens  
Efficiency: N/A  
Efficacy: 114.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 159.2  
Input Voltage (V): 120  
Input Current (Ain): 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

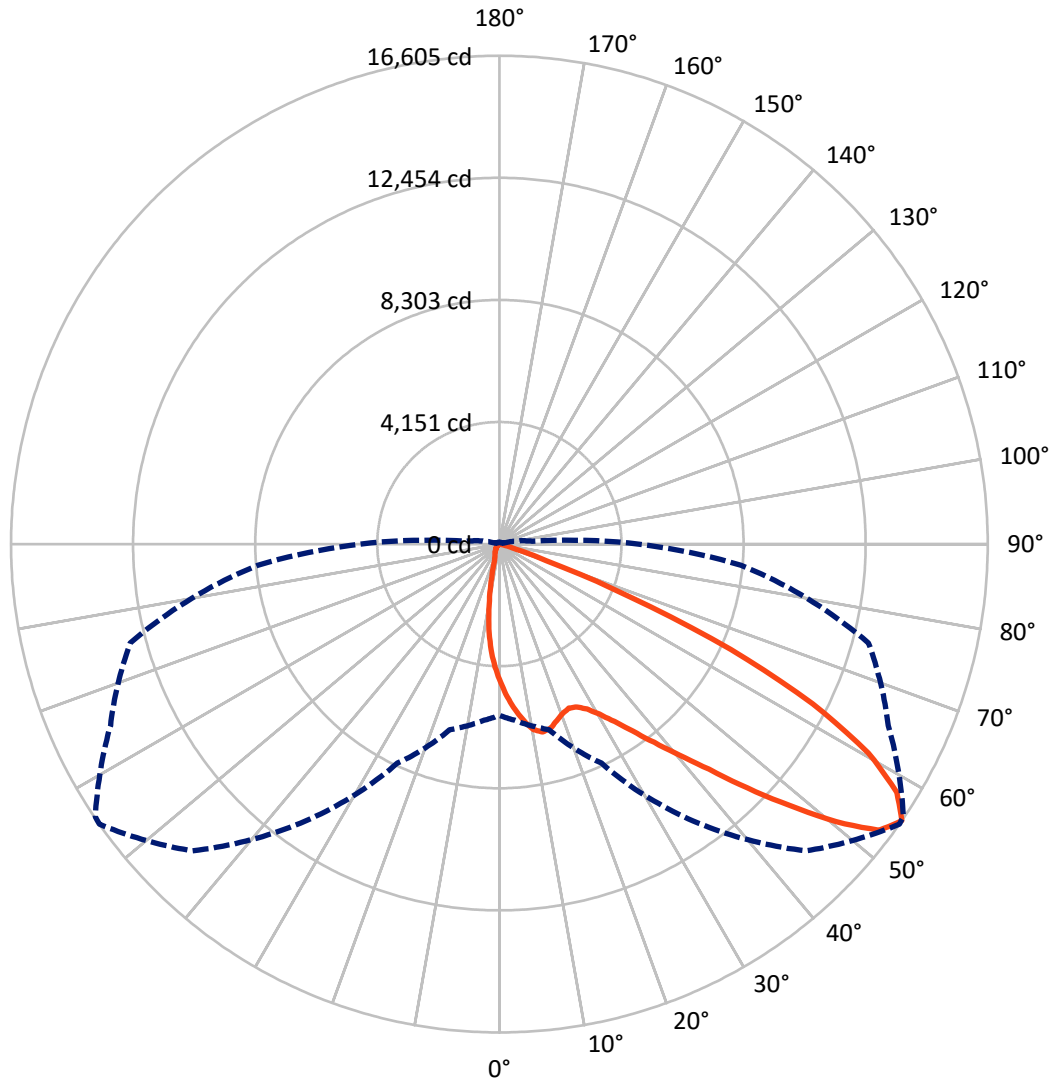
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.9 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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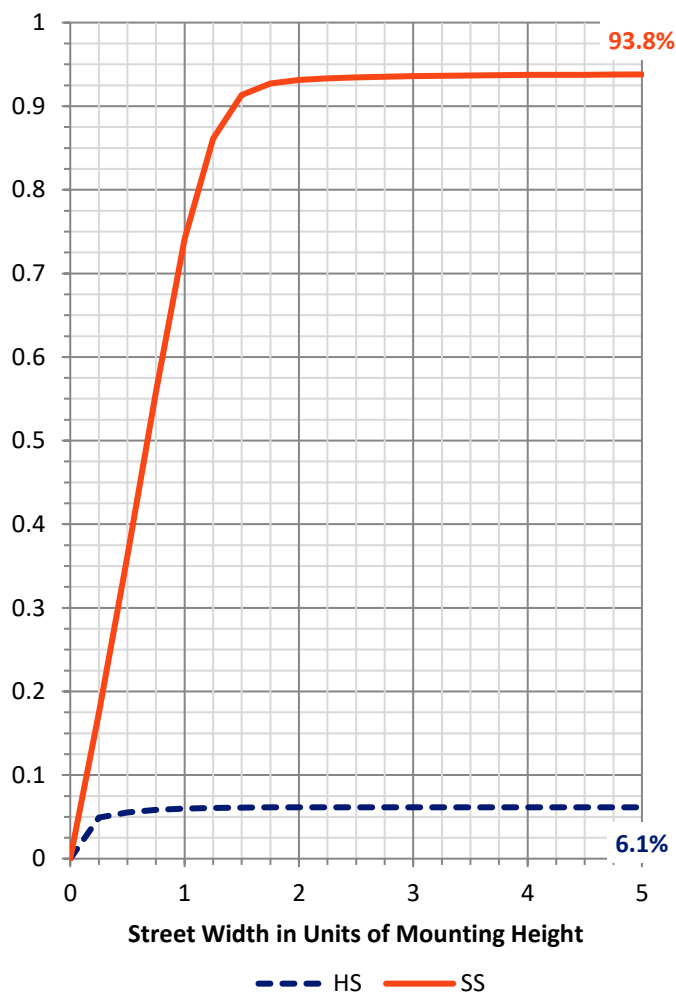
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1122.4	0.0	1122.4
	% Fixture	6.2	0.0	6.2
<b>Street Side</b>	Lumens	17066.9	0.0	17066.9
	% Fixture	93.8	0.0	93.8
<b>Total</b>	Lumens	18189.3	0.0	18189.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	415.3	2.3
10°-20°	1001.2	5.5
20°-30°	1667.4	9.2
30°-40°	2841.3	15.6
40°-50°	4638.0	25.5
50°-60°	4855.8	26.7
60°-70°	2449.2	13.5
70°-80°	309.4	1.7
80°-90°	11.7	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°	18189.3	100.0
0°-180°	18189.3	100.0

**Coefficient of Utilization**



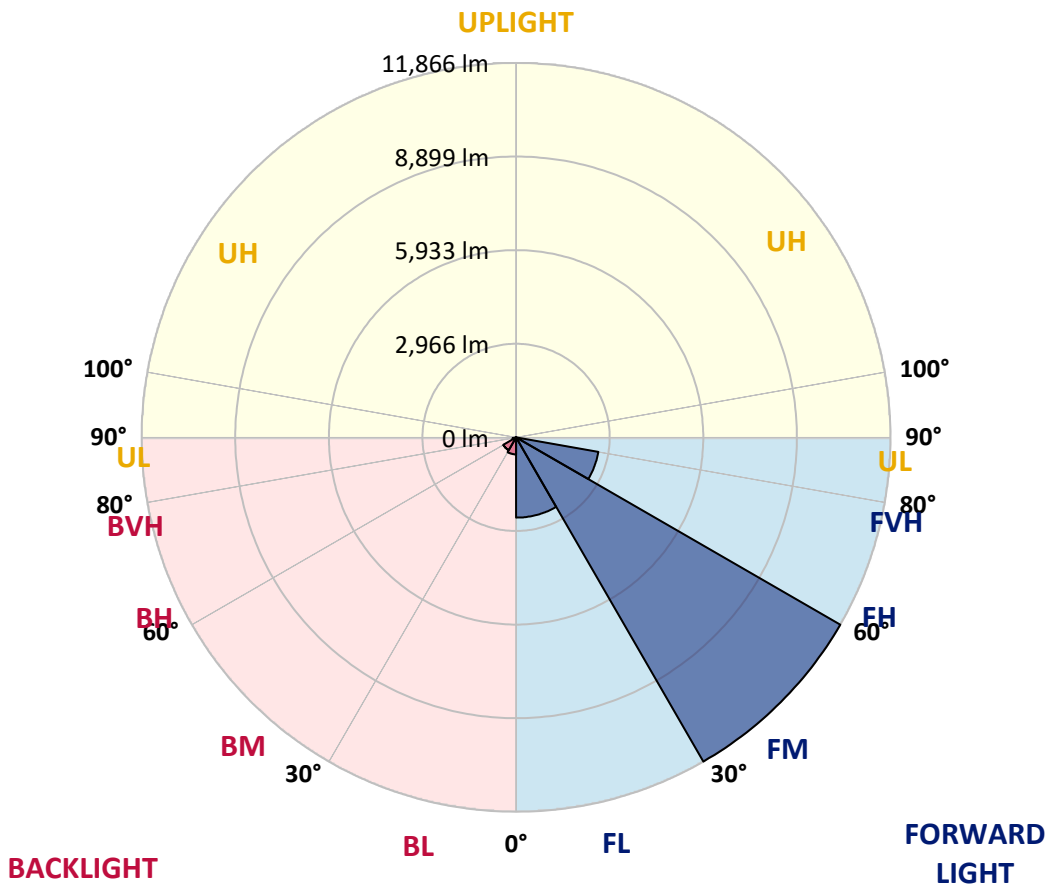
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2544.4	14.0			
FM (30°-60°)	11865.9	65.2			
FH (60°-80°)	2645.9	14.5			G2/5000
FVH (80°-90°)	10.7	0.1			G1/100
BL (0°-30°)	539.4	3.0	B2/1000		
BM (30°-60°)	469.3	2.6	B1/1000		
BH (60°-80°)	112.6	0.6	B1/500		G1/500
BVH (80°-90°)	1.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: 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°	4699.0	4699.0	4699.0	4699.0	4699.0	4699.0	4699.0	4699.0	4699.0	4699.0	4699.0
2.5°	5478.1	5451.6	5492.1	5445.4	5366.1	5299.3	5212.2	5181.1	5041.1	4909.0	4781.5
5°	6143.6	6151.4	6138.9	6073.6	5961.7	5837.3	5661.6	5622.7	5378.6	5126.7	4854.5
7.5°	6308.4	6303.8	6330.2	6355.1	6336.4	6274.2	6083.0	6044.1	5740.9	5363.0	4966.5
10°	5800.0	5803.1	5857.5	6025.4	6233.8	6449.9	6420.4	6398.6	6101.6	5630.5	5090.9
12.5°	5081.6	5109.6	5167.1	5406.6	5759.5	6250.9	6555.7	6577.4	6432.8	5924.3	5237.1
15°	4770.6	4776.8	4823.4	4968.1	5230.8	5837.3	6498.1	6558.8	6709.6	6219.8	5395.7
17.5°	4762.8	4770.6	4790.8	4854.5	5025.6	5512.3	6313.1	6418.8	6918.0	6537.0	5585.4
20°	5055.1	5050.5	5036.5	5002.3	5076.9	5405.0	6142.0	6258.7	7031.5	6846.4	5776.6
22.5°	5585.4	5579.1	5517.0	5375.5	5314.8	5503.0	6058.1	6163.8	7099.9	7121.7	5933.7
25°	6196.5	6240.0	6123.4	5908.8	5759.5	5753.3	6132.7	6207.3	7159.0	7365.8	6041.0
27.5°	6866.6	6880.6	6781.1	6540.1	6324.0	6154.5	6348.8	6404.8	7224.3	7583.5	6101.6
30°	7602.1	7597.5	7484.0	7204.1	6941.3	6697.2	6712.7	6734.5	7376.7	7832.3	6168.5
32.5°	8521.1	8541.3	8339.2	7958.2	7642.6	7305.1	7188.5	7191.6	7651.9	8152.6	6269.5
35°	9769.7	9720.0	9452.5	8909.8	8371.8	8008.0	7808.9	7791.8	8076.4	8583.3	6445.3
37.5°	10959.3	10963.9	10684.0	10086.9	9407.4	8833.7	8552.2	8505.6	8673.5	9180.4	6737.6
40°	11784.9	11800.5	11683.9	11371.3	10651.4	9839.7	9426.1	9377.9	9447.9	9936.1	7120.1
42.5°	12221.9	12265.4	12298.1	12371.2	11825.4	11096.1	10460.1	10455.5	10382.4	10797.6	7563.3
45°	12239.0	12304.3	12503.3	13002.5	13064.7	12529.8	11837.8	11733.6	11452.2	11719.6	7959.8
47.5°	11562.6	11713.4	12136.4	13125.3	13778.4	13955.6	13269.9	13206.2	12416.3	12448.9	8256.8
50°	9985.9	10142.9	10921.9	12495.6	13958.8	15087.7	14842.0	14709.8	13221.7	12930.9	8399.8
52.5°	8368.7	8511.8	9040.5	10996.6	13210.8	15443.7	16166.8	16009.7	13944.8	13098.9	8340.7
55°	5823.3	6014.5	6530.8	8219.4	11487.9	14750.2	16605.3	16572.6	14590.1	12993.1	8249.0
57.5°	2854.9	3044.6	3559.3	5067.6	8510.2	12878.1	15935.1	16107.7	14975.7	12879.6	8174.4
60°	1192.6	1270.4	1447.7	2223.6	4761.2	9732.4	14422.1	14661.6	14739.3	12725.7	8166.6
62.5°	692.0	704.4	723.1	922.1	1851.9	5579.1	11963.8	12304.3	13496.9	12522.0	8043.7
65°	522.5	527.1	519.4	566.0	765.0	2116.3	8644.0	9107.3	11265.6	11725.9	7558.6
67.5°	429.2	429.2	409.0	418.3	480.5	793.0	4772.1	5419.0	8336.1	9637.6	6241.6
70°	342.1	349.9	340.5	328.1	343.6	438.5	1698.0	2105.4	4854.5	5691.1	3640.1
72.5°	259.7	259.7	275.2	265.9	255.0	275.2	592.4	665.5	1948.3	2372.8	1313.9
75°	200.6	206.8	217.7	208.4	192.8	163.3	284.6	301.7	587.8	552.0	293.9
77.5°	102.6	104.2	138.4	152.4	143.1	99.5	124.4	136.8	191.3	171.0	108.8
80°	62.2	65.3	77.7	119.7	94.9	52.9	51.3	54.4	90.2	77.7	45.1
82.5°	26.4	28.0	43.5	43.5	38.9	20.2	20.2	20.2	43.5	40.4	18.7
85°	0.0	0.0	7.8	6.2	6.2	7.8	7.8	7.8	10.9	15.5	9.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	4.7	4.7
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°	4699.0	4699.0	4699.0	4699.0	4699.0	4699.0	4699.0	4699.0	4699.0	4699.0	4699.0
2.5°	4699.0	4599.5	4465.8	4344.5	4181.3	4089.5	3962.0	3857.8	3769.2	3741.2	3728.8
5°	4700.6	4529.6	4243.5	3957.3	3605.9	3329.1	3044.6	2819.1	2634.1	2575.0	2559.4
7.5°	4731.7	4479.8	4016.4	3497.1	2909.3	2424.2	1990.3	1601.6	1421.2	1360.6	1348.1
10°	4773.7	4437.8	3753.6	2945.1	2100.7	1477.2	1046.5	797.7	679.5	614.2	623.5
12.5°	4828.1	4403.6	3462.9	2348.0	1390.1	811.7	575.3	482.0	457.2	444.7	438.5
15°	4901.2	4363.2	3102.1	1755.5	852.1	522.5	443.2	418.3	409.0	402.7	401.2
17.5°	4975.8	4316.5	2735.2	1234.6	566.0	433.8	398.1	385.6	379.4	374.7	373.2
20°	5055.1	4237.2	2304.4	850.6	446.3	390.3	367.0	353.0	345.2	337.4	335.9
22.5°	5089.3	4109.7	1892.4	595.5	396.5	359.2	329.6	312.5	303.2	297.0	297.0
25°	5056.7	3902.9	1466.3	452.5	360.7	325.0	295.4	276.8	269.0	262.8	262.8
27.5°	4969.6	3637.0	1069.8	374.7	321.9	289.2	261.2	244.1	237.9	234.8	234.8
30°	4873.2	3301.2	754.1	321.9	278.3	251.9	228.6	217.7	216.1	213.0	213.0
32.5°	4790.8	2987.1	519.4	283.0	245.7	219.2	203.7	199.0	200.6	197.5	199.0
35°	4745.7	2679.2	385.6	251.9	219.2	194.4	186.6	186.6	186.6	185.0	185.0
37.5°	4764.4	2376.0	314.1	230.1	195.9	177.3	169.5	172.6	175.7	175.7	175.7
40°	4857.7	2107.0	278.3	209.9	175.7	161.7	155.5	160.2	164.8	167.9	167.9
42.5°	4975.8	1889.3	251.9	192.8	161.7	146.2	143.1	147.7	152.4	155.5	155.5
45°	5050.5	1670.0	225.5	171.0	147.7	129.1	129.1	135.3	133.7	135.3	135.3
47.5°	5084.7	1495.9	199.0	147.7	126.0	112.0	113.5	116.6	113.5	116.6	116.6
50°	5000.7	1320.1	175.7	122.8	104.2	98.0	101.1	99.5	99.5	105.7	105.7
52.5°	4846.8	1189.5	155.5	104.2	88.6	87.1	90.2	84.0	85.5	85.5	84.0
55°	4733.3	1114.9	138.4	90.2	76.2	77.7	76.2	65.3	59.1	52.9	51.3
57.5°	4677.3	1085.4	126.0	80.9	68.4	68.4	62.2	45.1	34.2	26.4	23.3
60°	4664.8	1049.6	113.5	70.0	60.6	57.5	45.1	26.4	17.1	12.4	10.9
62.5°	4546.7	962.5	102.6	56.0	52.9	46.6	28.0	15.5	9.3	6.2	4.7
65°	4159.5	791.5	91.7	43.5	40.4	34.2	17.1	9.3	4.7	1.6	0.0
67.5°	3308.9	561.3	80.9	32.7	28.0	21.8	10.9	6.2	1.6	0.0	0.0
70°	1907.9	303.2	66.9	23.3	18.7	14.0	7.8	3.1	0.0	0.0	0.0
72.5°	637.5	141.5	51.3	15.5	14.0	10.9	4.7	1.6	0.0	0.0	0.0
75°	139.9	84.0	34.2	10.9	9.3	7.8	3.1	0.0	0.0	0.0	0.0
77.5°	52.9	59.1	17.1	7.8	6.2	4.7	1.6	0.0	0.0	0.0	0.0
80°	20.2	38.9	7.8	4.7	4.7	1.6	0.0	0.0	0.0	0.0	0.0
82.5°	10.9	15.5	4.7	3.1	3.1	0.0	0.0	0.0	0.0	0.0	0.0
85°	6.2	7.8	3.1	1.6	1.6	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.1	1.6	1.6	1.6	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)