

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: P639679

Luminaire Tested: GWS-SA5C-735-U-SL2-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639679
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-SA5C-735-U-SL2-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (80) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13790.8 lumens
Efficiency: N/A
Efficacy: 87.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

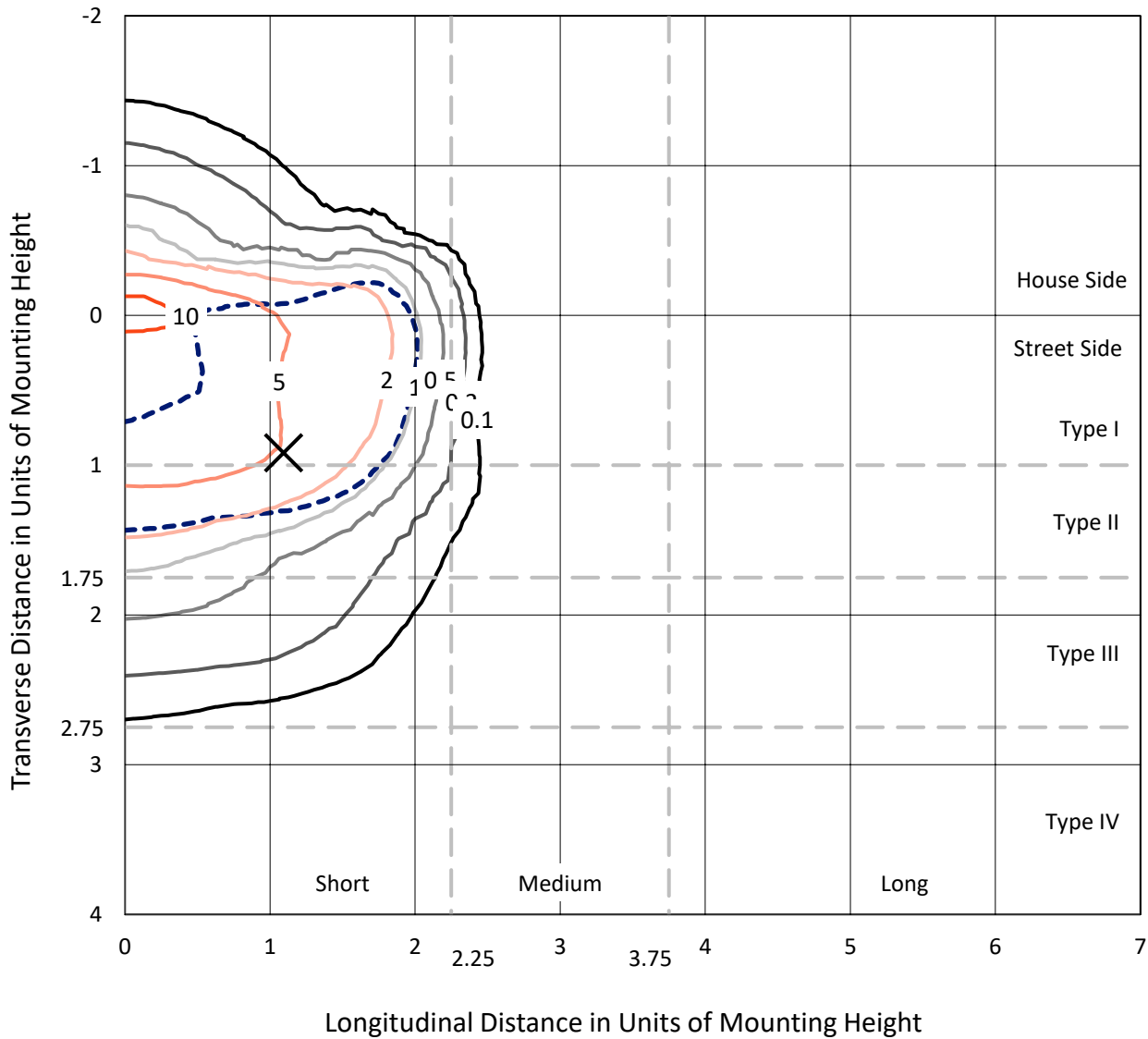
Input Watts (W): 157.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

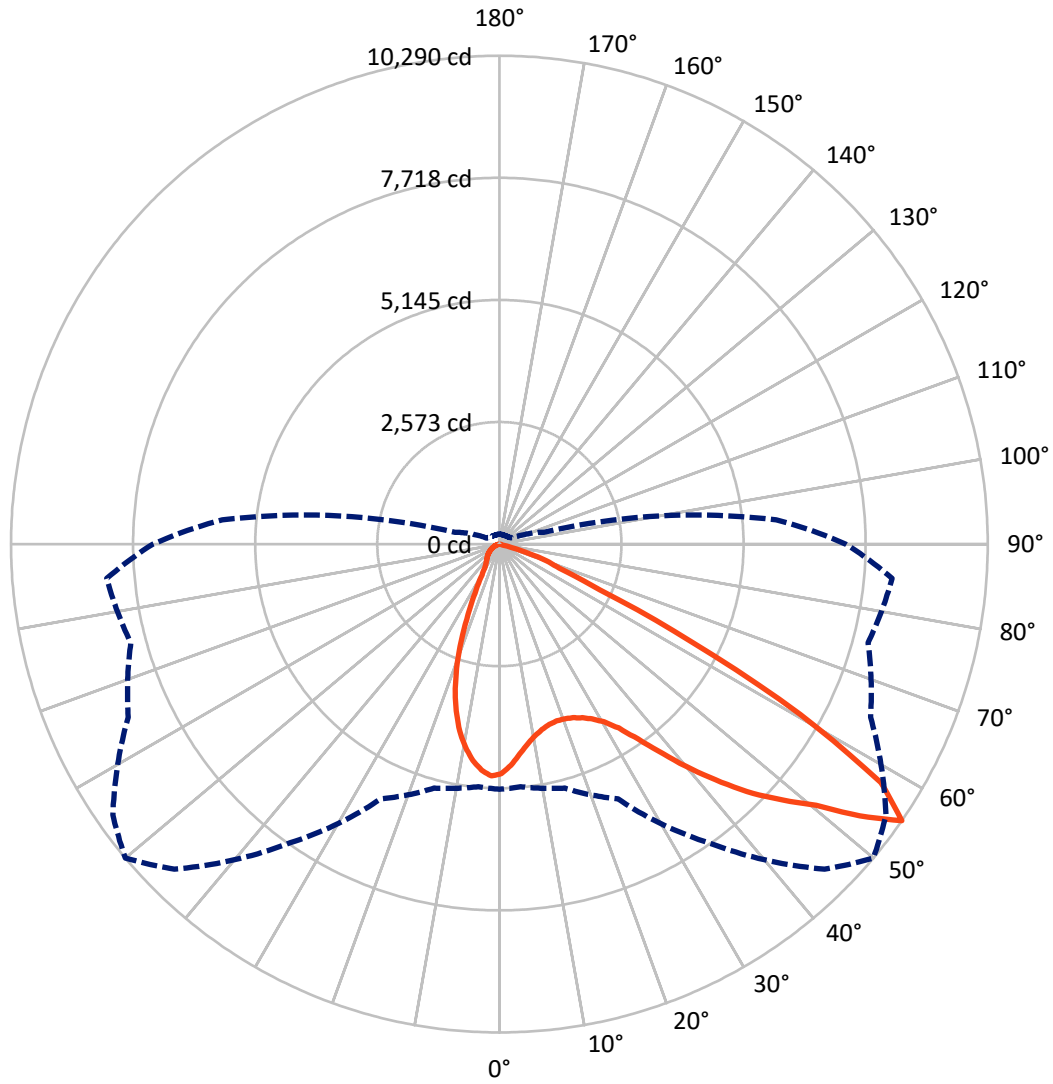
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 12.1 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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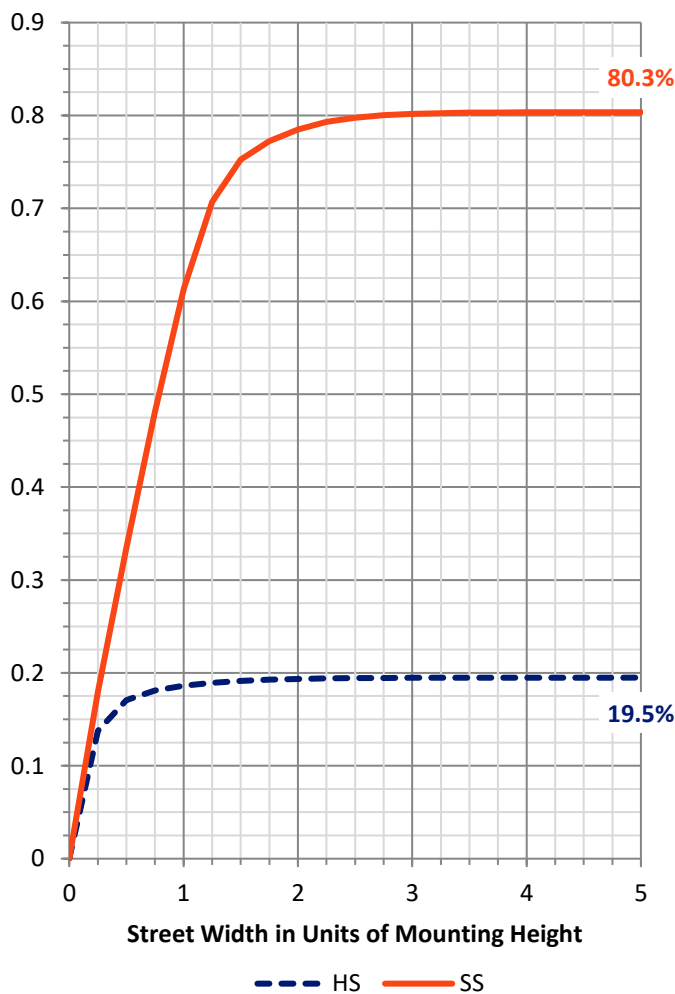
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2717.4	0.0	2717.4
	% Fixture	19.7	0.0	19.7
Street Side	Lumens	11073.4	0.0	11073.4
	% Fixture	80.3	0.0	80.3
Total	Lumens	13790.8	0.0	13790.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	424.9	3.1
10°-20°	1045.7	7.6
20°-30°	1475.0	10.7
30°-40°	2182.7	15.8
40°-50°	3148.9	22.8
50°-60°	3714.3	26.9
60°-70°	1656.9	12.0
70°-80°	142.4	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°	13790.8	100.0
0°-180°	13790.8	100.0

Coefficient of Utilization



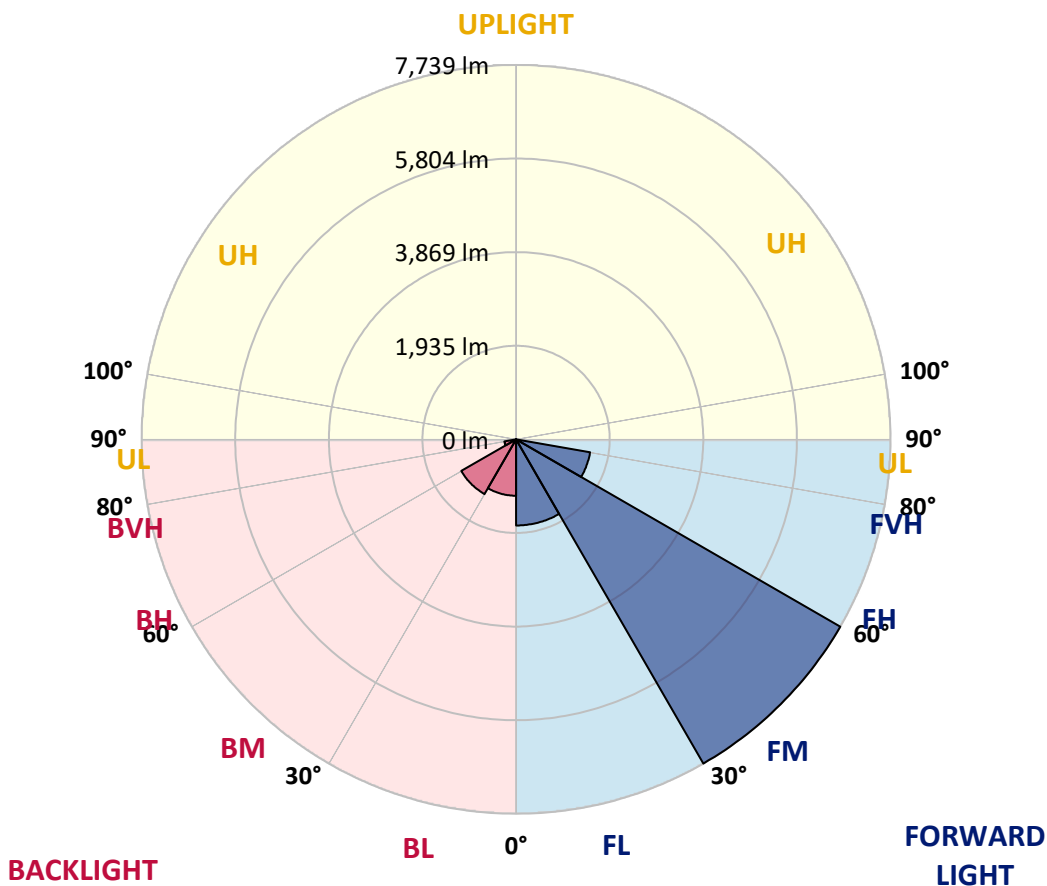
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1780.4	12.9			
FM (30°-60°)	7738.9	56.1			
FH (60°-80°)	1554.0	11.3			G1/1800
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	1165.1	8.4	B3/2500		
BM (30°-60°)	1306.9	9.5	B2/2500		
BH (60°-80°)	245.4	1.8	B1/500		G1/500
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-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
0°	4838.6	4838.6	4838.6	4838.6	4838.6	4838.6	4838.6	4838.6	4838.6	4838.6	4838.6
2.5°	4495.1	4498.5	4500.2	4545.6	4562.5	4629.8	4665.2	4683.7	4732.5	4789.8	4836.9
5°	4193.8	4188.7	4197.1	4254.4	4291.4	4390.7	4444.6	4481.7	4589.4	4724.1	4836.9
7.5°	3931.1	3941.2	3951.3	4013.6	4069.2	4176.9	4254.4	4309.9	4459.8	4660.1	4850.4
10°	3745.9	3745.9	3761.1	3831.8	3897.5	4030.5	4107.9	4178.6	4357.1	4602.9	4865.5
12.5°	3609.6	3611.3	3629.8	3710.6	3786.3	3924.4	4005.2	4074.2	4271.2	4545.6	4868.9
15°	3545.6	3540.5	3555.7	3641.6	3725.7	3855.4	3939.6	4006.9	4210.6	4513.7	4885.7
17.5°	3528.8	3525.4	3537.2	3621.4	3707.2	3833.5	3916.0	3983.3	4202.2	4523.8	4936.2
20°	3577.6	3570.9	3565.8	3638.2	3719.0	3843.6	3929.5	4005.2	4242.6	4579.3	5013.7
22.5°	3693.8	3693.8	3682.0	3717.3	3771.2	3884.0	3973.2	4072.6	4348.7	4690.4	5128.2
25°	3907.6	3890.7	3868.8	3884.0	3877.3	3948.0	4054.0	4192.1	4549.0	4873.9	5267.9
27.5°	4151.7	4166.8	4129.8	4131.5	4072.6	4047.3	4170.2	4379.0	4847.0	5133.2	5475.0
30°	4483.3	4471.6	4473.2	4468.2	4331.8	4212.3	4345.3	4623.1	5222.4	5528.8	5744.3
32.5°	4742.6	4759.5	4815.0	4847.0	4668.5	4476.6	4618.0	4954.7	5650.1	5980.0	6074.3
35°	5017.0	5047.3	5160.1	5264.5	5114.7	4894.1	5045.7	5394.2	6052.4	6426.2	6453.1
37.5°	5306.6	5367.2	5501.9	5685.4	5661.8	5466.6	5604.6	5911.0	6368.9	6695.6	6766.3
40°	5638.3	5697.2	5917.7	6182.1	6237.6	6193.9	6239.3	6417.8	6577.7	6707.3	6901.0
42.5°	6001.9	6082.7	6362.2	6715.8	6924.5	6963.2	6857.2	6838.7	6668.6	6572.7	6872.3
45°	6431.2	6525.5	6842.0	7300.0	7631.6	7683.8	7500.3	7262.9	6725.9	6473.3	6786.5
47.5°	6912.7	7002.0	7316.8	7867.3	8360.6	8380.8	8060.9	7678.8	6895.9	6587.8	6852.1
50°	7074.4	7129.9	7402.7	8049.1	8958.3	9113.2	8650.2	8146.8	7237.7	6924.5	7172.0
52.5°	6518.8	6540.7	6778.1	7431.3	8837.1	9832.0	9510.5	8845.5	7845.4	7438.0	7665.3
55°	5165.2	5129.8	5321.8	5921.1	7680.4	9685.6	10290.0	9943.2	8628.3	8040.7	8306.7
57.5°	3612.9	3570.9	3527.1	3932.8	5730.9	8210.8	9481.9	10096.4	9374.1	8638.4	8998.7
60°	2969.8	2929.4	2717.3	2530.4	3464.8	5895.9	7283.1	8439.7	9313.5	8608.1	8976.8
62.5°	2565.8	2542.2	2456.3	2202.1	2038.8	3365.5	4560.8	5668.6	7146.8	6759.5	6779.7
65°	2015.2	2008.5	2067.4	2094.4	1803.1	1862.0	2326.7	2946.2	3863.8	3643.2	3454.7
67.5°	1377.2	1362.0	1473.1	1811.5	1734.1	1469.8	1362.0	1373.8	1671.8	1021.9	811.5
70°	875.5	840.1	841.8	1122.9	1410.8	1160.0	1050.5	924.3	831.7	151.5	171.7
72.5°	560.6	538.7	463.0	506.8	653.2	565.7	570.7	491.6	328.3	80.8	94.3
75°	235.7	217.2	166.7	133.0	131.3	82.5	72.4	67.3	45.5	45.5	48.8
77.5°	1.7	0.0	0.0	1.7	3.4	1.7	1.7	3.4	6.7	10.1	11.8
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7
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°	4838.6	4838.6	4838.6	4838.6	4838.6	4838.6	4838.6	4838.6	4838.6	4838.6	4838.6
2.5°	4865.5	4825.1	4870.6	4887.4	4885.7	4887.4	4838.6	4804.9	4803.2	4761.1	4740.9
5°	4884.0	4852.0	4885.7	4863.8	4811.6	4746.0	4658.4	4582.7	4549.0	4500.2	4476.6
7.5°	4919.4	4885.7	4880.7	4793.1	4663.5	4525.4	4370.5	4232.5	4158.4	4069.2	4074.2
10°	4944.6	4905.9	4840.3	4661.8	4446.3	4225.8	3995.1	3789.7	3660.1	3540.5	3520.3
12.5°	4954.7	4897.5	4744.3	4474.9	4171.9	3884.0	3545.6	3252.7	3050.6	2894.1	2872.2
15°	4973.3	4880.7	4621.4	4249.3	3833.5	3426.1	2995.1	2594.4	2326.7	2146.6	2161.7
17.5°	5001.9	4862.1	4483.3	3996.8	3469.8	2894.1	2311.5	1851.9	1606.1	1501.7	1503.4
20°	5042.3	4840.3	4331.8	3719.0	3033.8	2293.0	1616.2	1269.4	1200.4	1197.0	1192.0
22.5°	5096.2	4818.4	4170.2	3414.3	2516.9	1606.1	1075.8	968.1	996.7	1052.2	1062.3
25°	5160.1	4791.4	3990.1	3070.8	1952.9	1053.9	806.4	789.6	858.6	932.7	949.5
27.5°	5259.5	4778.0	3784.7	2680.2	1370.4	755.9	660.0	670.1	732.4	794.6	809.8
30°	5427.8	4803.2	3560.8	2242.5	880.5	602.7	572.4	587.6	621.2	653.2	666.7
32.5°	5656.8	4877.3	3343.6	1764.4	628.0	523.6	516.9	525.3	538.7	557.3	562.3
35°	5924.5	5005.3	3119.7	1262.7	518.5	478.1	471.4	471.4	478.1	481.5	483.2
37.5°	6145.0	5139.9	2909.2	840.1	464.7	442.8	432.7	427.6	425.9	429.3	431.0
40°	6241.0	5195.5	2680.2	611.1	425.9	410.8	395.6	380.5	380.5	392.3	394.0
42.5°	6173.7	5133.2	2415.9	505.1	399.0	377.1	353.5	340.1	346.8	358.6	362.0
45°	6030.5	4980.0	2124.7	446.1	372.1	343.4	316.5	308.1	314.8	330.0	333.3
47.5°	6007.0	4879.0	1776.2	407.4	343.4	314.8	286.2	277.8	286.2	298.0	301.4
50°	6241.0	4966.5	1388.9	373.8	316.5	284.5	261.0	252.5	257.6	264.3	267.7
52.5°	6668.6	5291.5	1121.3	341.8	284.5	254.2	239.1	229.0	229.0	235.7	237.4
55°	7300.0	5858.8	968.1	304.7	247.5	230.6	217.2	207.1	207.1	210.4	212.1
57.5°	8027.3	6545.7	1003.4	255.9	217.2	208.8	197.0	188.6	191.9	191.9	191.9
60°	7926.2	6495.2	1074.1	215.5	191.9	188.6	178.5	175.1	183.5	176.8	173.4
62.5°	5838.6	4486.7	562.3	176.8	165.0	161.6	154.9	161.6	173.4	154.9	148.2
65°	2835.1	2171.8	225.6	144.8	139.7	136.4	133.0	143.1	149.8	121.2	114.5
67.5°	666.7	542.1	146.5	122.9	116.2	109.4	112.8	114.5	109.4	82.5	79.1
70°	173.4	170.0	114.5	102.7	92.6	85.9	85.9	84.2	72.4	52.2	48.8
72.5°	94.3	92.6	82.5	77.4	64.0	57.2	58.9	52.2	40.4	30.3	28.6
75°	47.1	50.5	47.1	43.8	35.4	32.0	32.0	28.6	20.2	11.8	11.8
77.5°	10.1	11.8	11.8	10.1	8.4	6.7	6.7	8.4	3.4	0.0	0.0
80°	1.7	1.7	1.7	1.7	1.7	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)