

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: P638359

Luminaire Tested: GWS-SA4E-760-U-SL2-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P638359  
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-SA4E-760-U-SL2-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (64) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

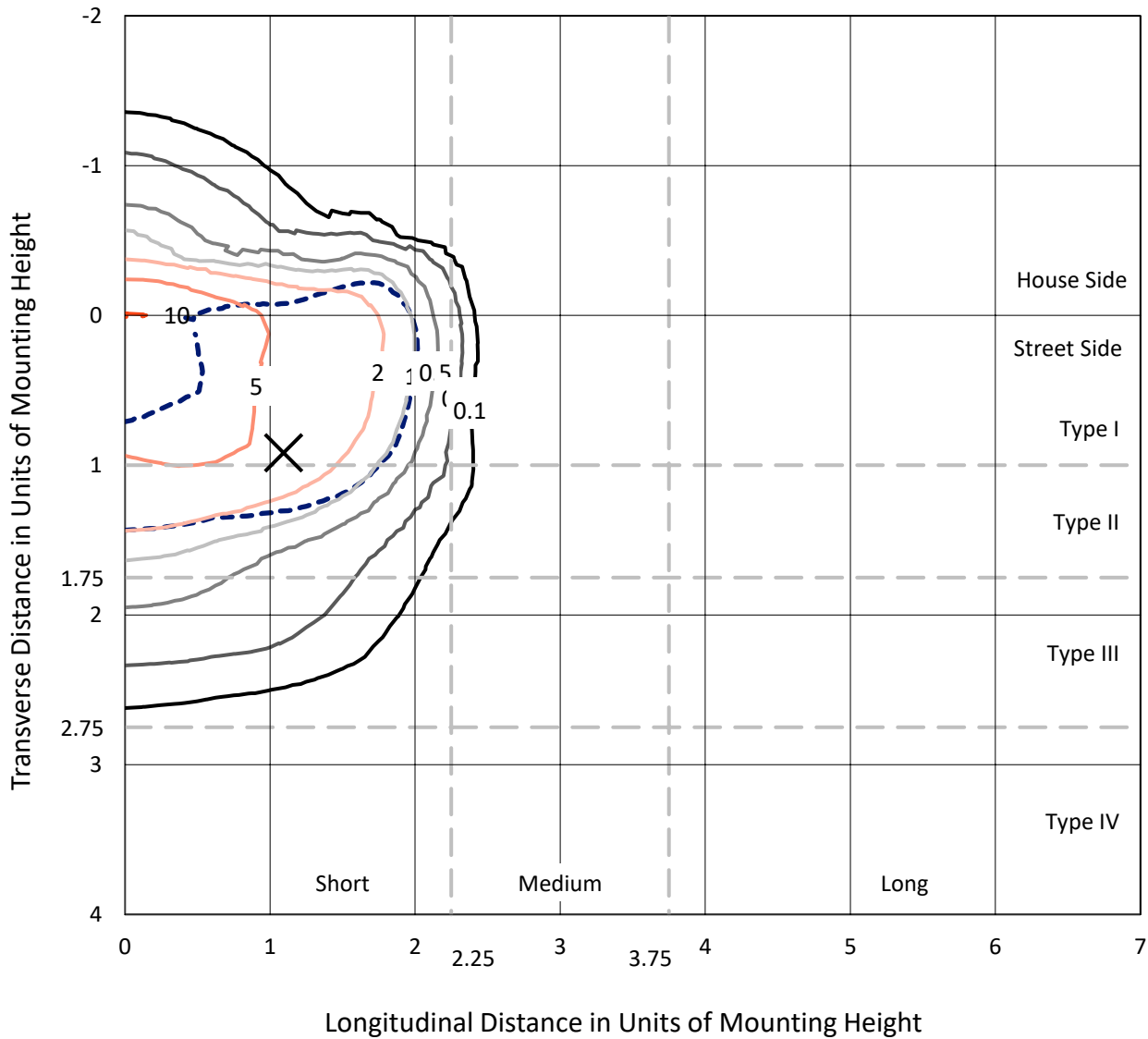
Lumens per Lamp: N/A  
Luminaire Lumens: 18129.4 lumens  
Efficiency: N/A  
Efficacy: 89.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2  
  
Input Watts (W): 202.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

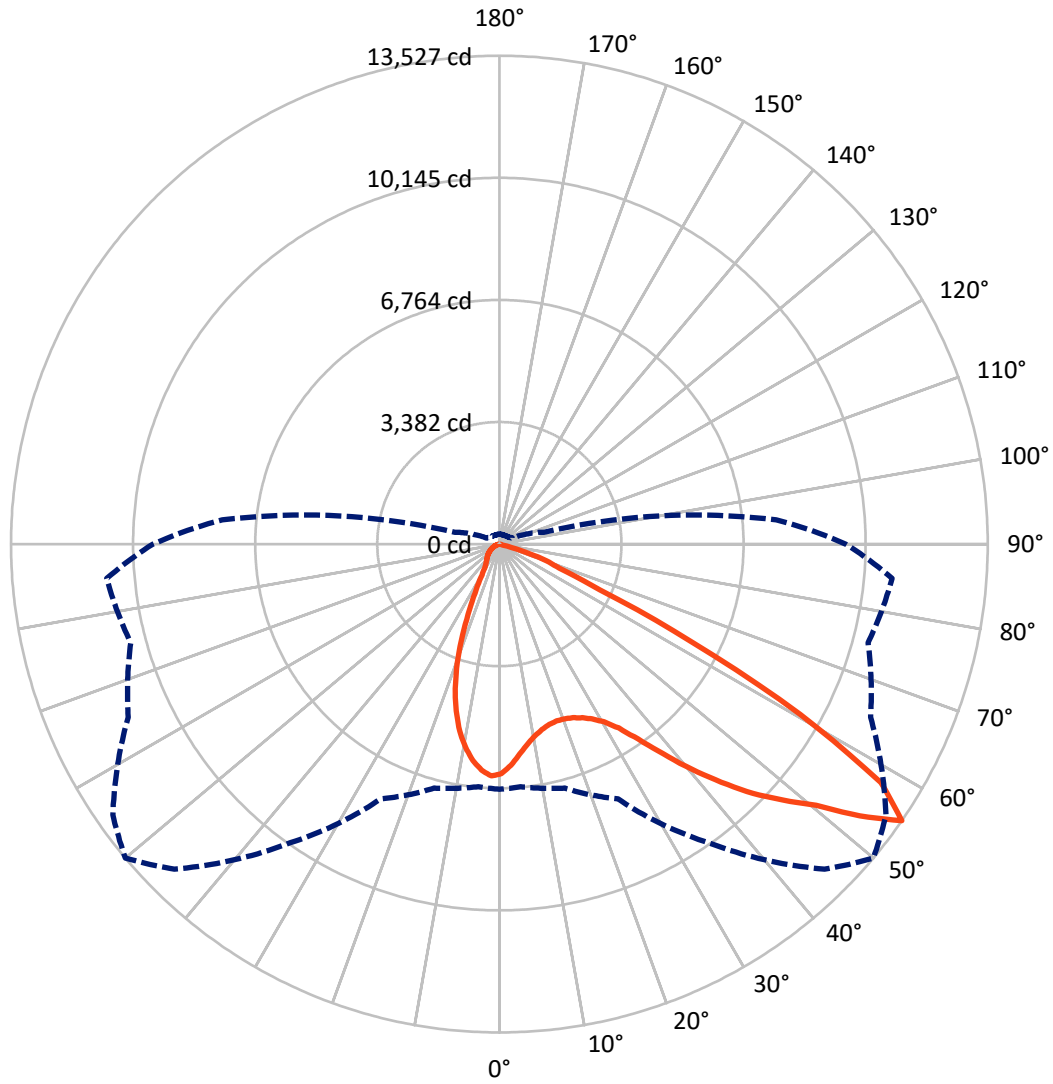
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.2 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
<b>House Side</b>	Lumens	3572.3	0.0	3572.3
	% Fixture	19.7	0.0	19.7
<b>Street Side</b>	Lumens	14557.1	0.0	14557.1
	% Fixture	80.3	0.0	80.3
<b>Total</b>	Lumens	18129.4	0.0	18129.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	558.6	3.1
10°-20°	1374.7	7.6
20°-30°	1939.0	10.7
30°-40°	2869.3	15.8
40°-50°	4139.5	22.8
50°-60°	4882.8	26.9
60°-70°	2178.2	12.0
70°-80°	187.3	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°	18129.4	100.0
0°-180°	18129.4	100.0

**Coefficient of Utilization**



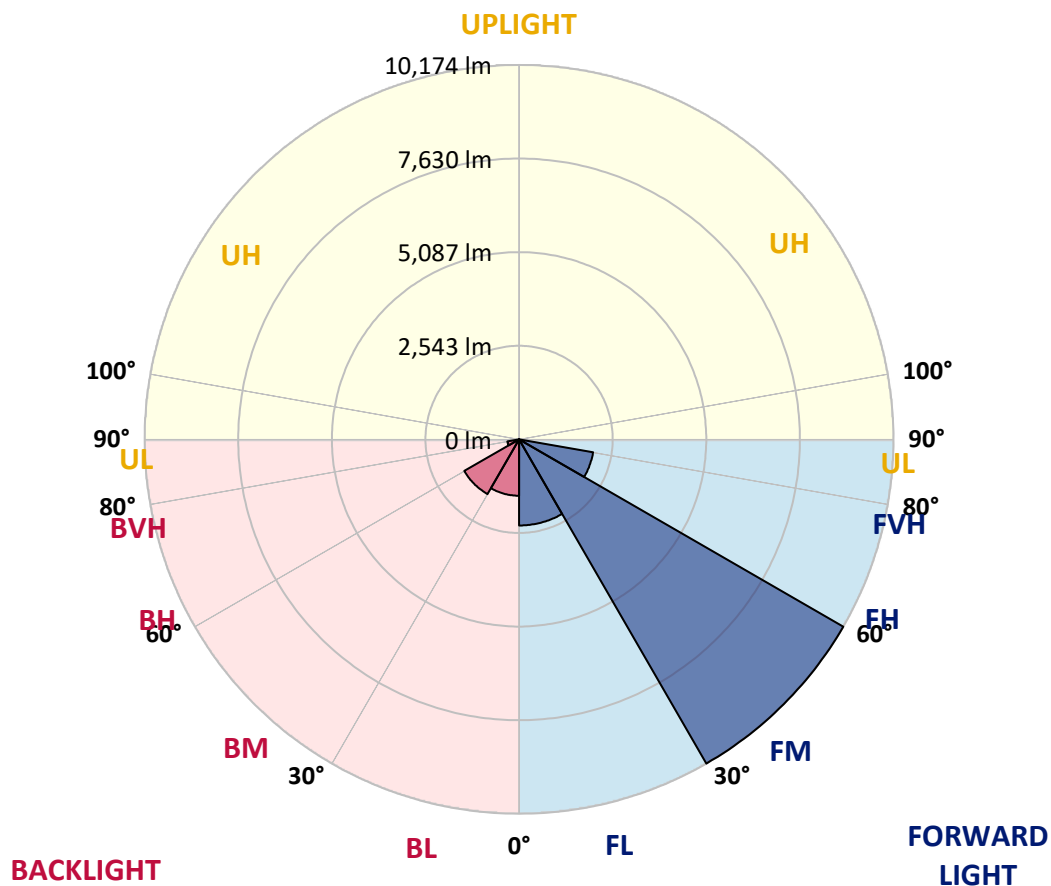
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2340.6	12.9			
FM (30°-60°)	10173.6	56.1			
FH (60°-80°)	2042.8	11.3			G2/5000
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	1531.7	8.4	B3/2500		
BM (30°-60°)	1718.0	9.5	B2/2500		
BH (60°-80°)	322.6	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-G2**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
0°	6360.8	6360.8	6360.8	6360.8	6360.8	6360.8	6360.8	6360.8	6360.8	6360.8	6360.8
2.5°	5909.3	5913.7	5915.9	5975.7	5997.8	6086.4	6132.8	6157.2	6221.4	6296.6	6358.6
5°	5513.1	5506.5	5517.6	5592.8	5641.5	5772.1	5842.9	5891.6	6033.2	6210.3	6358.6
7.5°	5167.9	5181.2	5194.4	5276.3	5349.4	5491.0	5592.8	5665.8	5862.8	6126.2	6376.3
10°	4924.4	4924.4	4944.3	5037.3	5123.6	5298.5	5400.3	5493.2	5727.8	6051.0	6396.2
12.5°	4745.1	4747.4	4771.7	4877.9	4977.5	5159.0	5265.3	5356.0	5614.9	5975.7	6400.6
15°	4661.0	4654.4	4674.3	4787.2	4897.9	5068.3	5178.9	5267.5	5535.3	5933.6	6422.8
17.5°	4638.9	4634.5	4650.0	4760.6	4873.5	5039.5	5148.0	5236.5	5524.2	5946.9	6489.2
20°	4703.1	4694.2	4687.6	4782.8	4889.0	5052.8	5165.7	5265.3	5577.3	6020.0	6591.0
22.5°	4855.8	4855.8	4840.3	4886.8	4957.6	5105.9	5223.2	5353.8	5716.8	6166.0	6741.5
25°	5136.9	5114.8	5086.0	5105.9	5097.1	5190.0	5329.4	5510.9	5980.1	6407.3	6925.2
27.5°	5457.8	5477.7	5429.0	5431.2	5353.8	5320.6	5482.2	5756.6	6371.9	6748.1	7197.4
30°	5893.8	5878.3	5880.5	5873.9	5694.6	5537.5	5712.3	6077.5	6865.4	7268.2	7551.5
32.5°	6234.6	6256.8	6329.8	6371.9	6137.3	5885.0	6070.9	6513.5	7427.6	7861.4	7985.3
35°	6595.4	6635.2	6783.5	6920.7	6723.8	6433.8	6633.0	7091.2	7956.5	8447.9	8483.3
37.5°	6976.1	7055.8	7232.8	7474.1	7443.1	7186.3	7367.8	7770.6	8372.6	8802.0	8894.9
40°	7412.1	7489.5	7779.5	8127.0	8200.0	8142.4	8202.2	8436.8	8647.1	8817.5	9072.0
42.5°	7890.1	7996.4	8363.8	8828.5	9103.0	9153.9	9014.5	8990.1	8766.6	8640.4	9034.4
45°	8454.5	8578.5	8994.5	9596.5	10032.5	10101.1	9859.9	9547.8	8841.8	8509.8	8921.5
47.5°	9087.5	9204.8	9618.7	10342.4	10990.9	11017.4	10596.9	10094.5	9065.4	8660.3	9007.8
50°	9300.0	9373.0	9731.5	10581.4	11776.6	11980.2	11371.5	10709.8	9514.6	9103.0	9428.3
52.5°	8569.6	8598.4	8910.4	9769.2	11617.2	12925.2	12502.5	11628.3	10313.6	9778.0	10076.8
55°	6790.2	6743.7	6996.0	7783.9	10096.7	12732.7	13527.2	13071.3	11342.8	10570.4	10920.0
57.5°	4749.6	4694.2	4636.7	5170.1	7533.8	10793.9	12464.9	13272.7	12323.2	11356.0	11829.7
60°	3904.1	3851.0	3572.1	3326.5	4554.8	7750.7	9574.4	11094.9	12243.5	11316.2	11800.9
62.5°	3373.0	3342.0	3229.1	2894.9	2680.2	4424.2	5995.6	7451.9	9395.1	8886.1	8912.6
65°	2649.2	2640.4	2717.8	2753.2	2370.4	2447.8	3058.7	3873.1	5079.3	4789.4	4541.5
67.5°	1810.4	1790.5	1936.6	2381.4	2279.6	1932.1	1790.5	1806.0	2197.7	1343.4	1066.8
70°	1150.9	1104.4	1106.6	1476.2	1854.7	1524.9	1381.1	1215.1	1093.3	199.2	225.7
72.5°	737.0	708.2	608.6	666.2	858.7	743.6	750.3	646.3	431.6	106.2	123.9
75°	309.9	285.5	219.1	174.8	172.6	108.4	95.2	88.5	59.8	59.8	64.2
77.5°	2.2	0.0	0.0	2.2	4.4	2.2	2.2	4.4	8.9	13.3	15.5
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2
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°	6360.8	6360.8	6360.8	6360.8	6360.8	6360.8	6360.8	6360.8	6360.8	6360.8	6360.8
2.5°	6396.2	6343.1	6402.9	6425.0	6422.8	6425.0	6360.8	6316.5	6314.3	6259.0	6232.4
5°	6420.6	6378.5	6422.8	6394.0	6325.4	6239.1	6124.0	6024.4	5980.1	5915.9	5885.0
7.5°	6467.0	6422.8	6416.1	6301.0	6130.6	5949.1	5745.5	5564.0	5466.7	5349.4	5356.0
10°	6500.2	6449.3	6363.0	6128.4	5845.1	5555.2	5252.0	4982.0	4811.5	4654.4	4627.8
12.5°	6513.5	6438.3	6236.9	5882.7	5484.4	5105.9	4661.0	4275.9	4010.4	3804.5	3775.8
15°	6537.9	6416.1	6075.3	5586.2	5039.5	4503.9	3937.3	3410.6	3058.7	2821.9	2841.8
17.5°	6575.5	6391.8	5893.8	5254.2	4561.5	3804.5	3038.8	2434.5	2111.4	1974.2	1976.4
20°	6628.6	6363.0	5694.6	4889.0	3988.2	3014.4	2124.7	1668.8	1578.0	1573.6	1567.0
22.5°	6699.4	6334.2	5482.2	4488.4	3308.8	2111.4	1414.2	1272.6	1310.2	1383.3	1396.5
25°	6783.5	6298.8	5245.3	4036.9	2567.3	1385.5	1060.1	1038.0	1128.7	1226.1	1248.3
27.5°	6914.1	6281.1	4975.3	3523.5	1801.6	993.7	867.6	880.9	962.8	1044.6	1064.6
30°	7135.4	6314.3	4681.0	2948.0	1157.5	792.3	752.5	772.4	816.7	858.7	876.4
32.5°	7436.4	6411.7	4395.5	2319.5	825.5	688.3	679.5	690.5	708.2	732.6	739.2
35°	7788.3	6579.9	4101.1	1659.9	681.7	628.6	619.7	619.7	628.6	633.0	635.2
37.5°	8078.3	6757.0	3824.4	1104.4	610.8	582.1	568.8	562.2	559.9	564.4	566.6
40°	8204.4	6830.0	3523.5	803.4	559.9	540.0	520.1	500.2	500.2	515.7	517.9
42.5°	8115.9	6748.1	3176.0	664.0	524.5	495.8	464.8	447.1	455.9	471.4	475.8
45°	7927.8	6546.7	2793.1	586.5	489.1	451.5	416.1	405.0	413.9	433.8	438.2
47.5°	7896.8	6413.9	2334.9	535.6	451.5	413.9	376.2	365.2	376.2	391.7	396.2
50°	8204.4	6529.0	1825.9	491.3	416.1	374.0	343.0	332.0	338.6	347.5	351.9
52.5°	8766.6	6956.2	1474.0	449.3	374.0	334.2	314.3	301.0	301.0	309.9	312.1
55°	9596.5	7702.0	1272.6	400.6	325.3	303.2	285.5	272.2	272.2	276.7	278.9
57.5°	10552.6	8605.0	1319.1	336.4	285.5	274.4	258.9	247.9	252.3	252.3	252.3
60°	10419.9	8538.6	1412.0	283.3	252.3	247.9	234.6	230.2	241.2	232.4	228.0
62.5°	7675.5	5898.2	739.2	232.4	216.9	212.5	203.6	212.5	228.0	203.6	194.8
65°	3727.1	2855.1	296.6	190.3	183.7	179.3	174.8	188.1	197.0	159.4	150.5
67.5°	876.4	712.7	192.6	161.6	152.7	143.9	148.3	150.5	143.9	108.4	104.0
70°	228.0	223.5	150.5	135.0	121.7	112.9	112.9	110.7	95.2	68.6	64.2
72.5°	123.9	121.7	108.4	101.8	84.1	75.2	77.5	68.6	53.1	39.8	37.6
75°	62.0	66.4	62.0	57.5	46.5	42.1	42.1	37.6	26.6	15.5	15.5
77.5°	13.3	15.5	15.5	13.3	11.1	8.9	8.9	11.1	4.4	0.0	0.0
80°	2.2	2.2	2.2	2.2	2.2	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)