

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: P638885

Luminaire Tested: GWS-SA4F-760-U-T3R-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638885
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-16)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4F-760-U-T3R-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY 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: 21529.7 lumens
Efficiency: N/A
Efficacy: 95.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

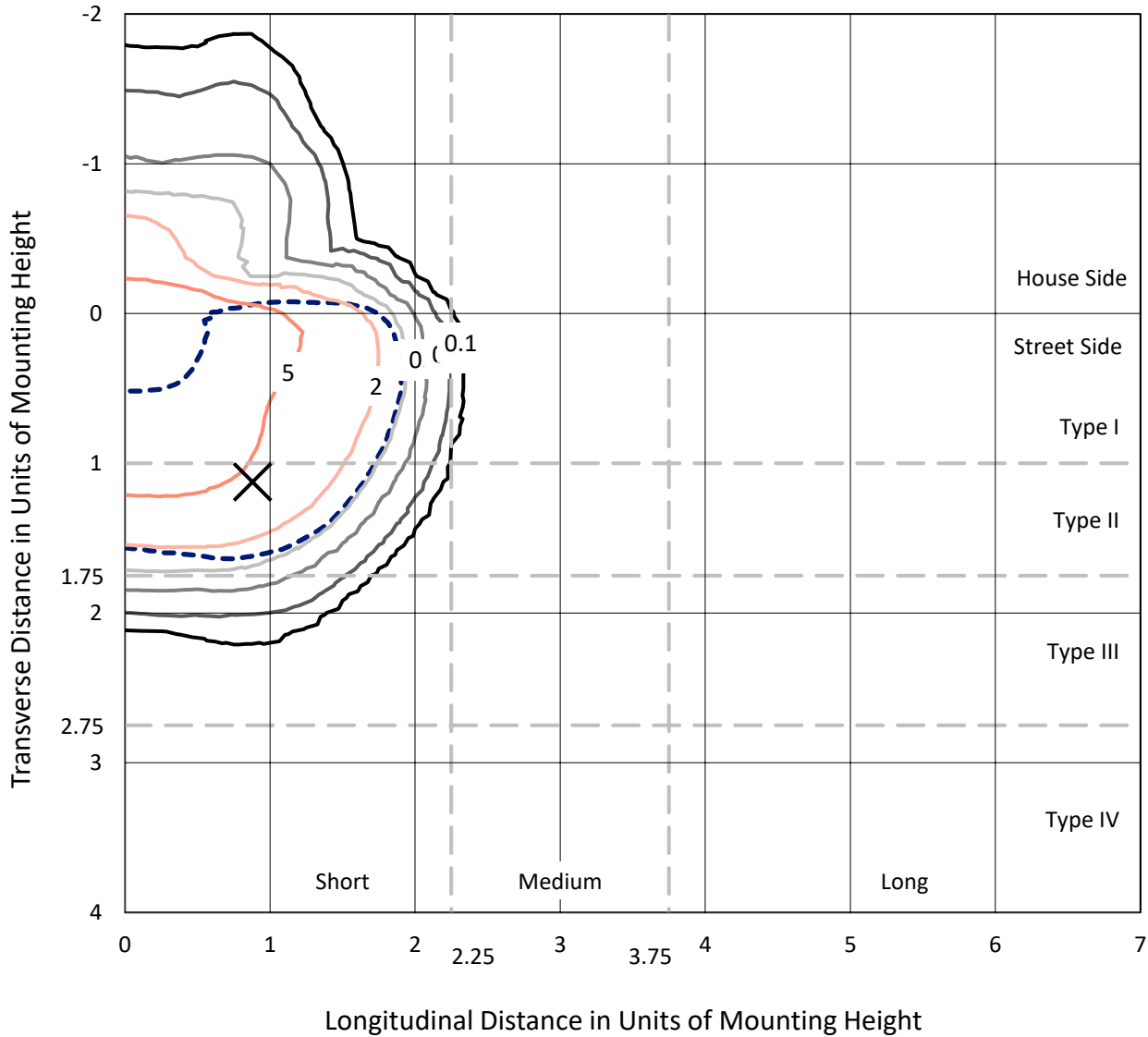
Input Watts (W): 225.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

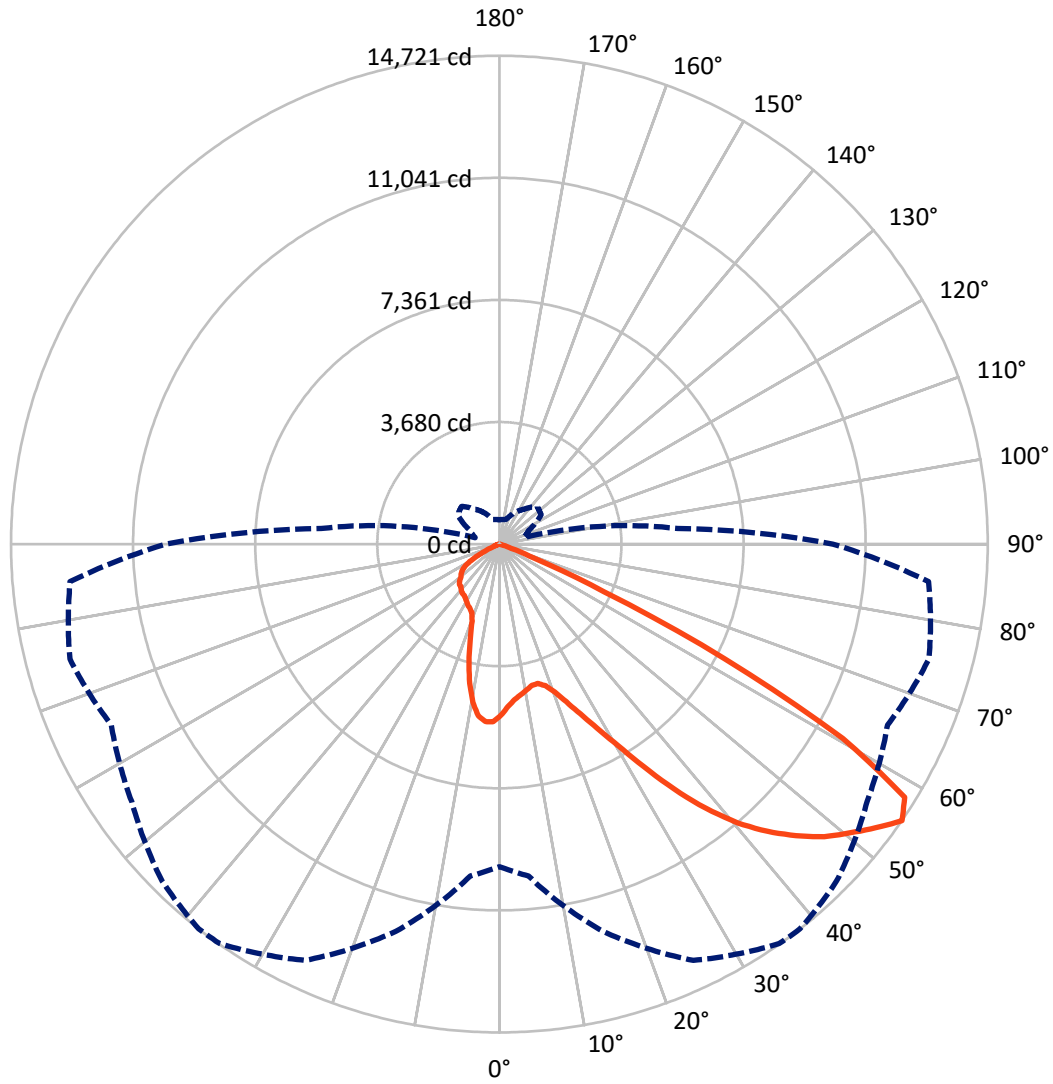
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4194.7	0.0	4194.7
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	17335.0	0.0	17335.0
	% Fixture	80.5	0.0	80.5
Total	Lumens	21529.7	0.0	21529.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	477.4	2.2
10°-20°	1285.2	6.0
20°-30°	2205.4	10.2
30°-40°	3657.9	17.0
40°-50°	5377.3	25.0
50°-60°	6283.5	29.2
60°-70°	2129.9	9.9
70°-80°	108.9	0.5
80°-90°	4.3	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°	21529.7	100.0
0°-180°	21529.7	100.0

Coefficient of Utilization



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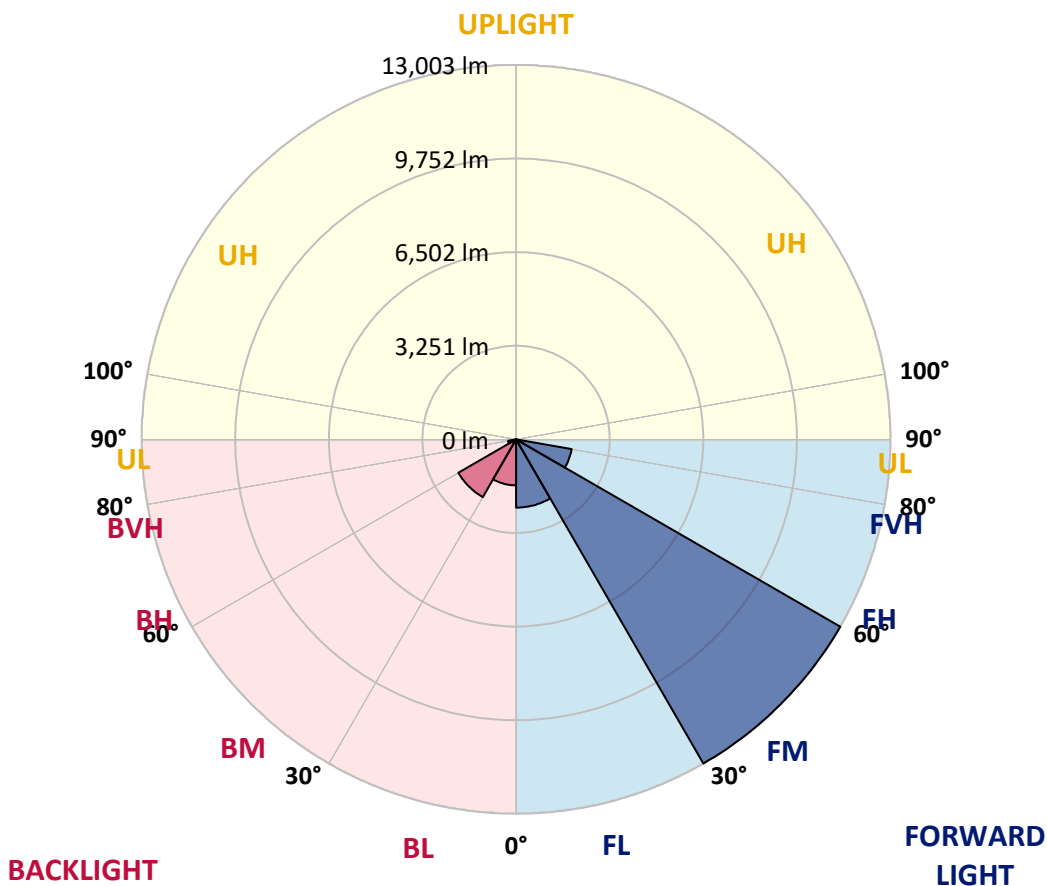
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2369.9	11.0			
FM (30°-60°)	13003.3	60.4			
FH (60°-80°)	1959.5	9.1			G2/5000
FVH (80°-90°)	2.3	0.0			G0/10
BL (0°-30°)	1598.1	7.4	B3/2500		
BM (30°-60°)	2315.3	10.8	B2/2500		
BH (60°-80°)	279.2	1.3	B1/500		G1/500
BVH (80°-90°)	2.0	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°	38°	45°	55°	65°	75°	85°
0°	5163.0	5163.0	5163.0	5163.0	5163.0	5163.0	5163.0	5163.0	5163.0	5163.0	5163.0
2.5°	4808.6	4798.8	4818.5	4857.8	4894.7	4907.1	4944.0	4995.6	5027.6	5103.9	5165.4
5°	4592.1	4587.1	4606.8	4641.3	4690.5	4707.7	4764.3	4850.5	4936.6	5069.5	5199.9
7.5°	4395.2	4392.7	4422.3	4498.5	4569.9	4592.1	4661.0	4766.8	4882.4	5086.7	5278.6
10°	4136.8	4139.2	4195.8	4304.1	4434.6	4478.9	4589.6	4742.2	4892.3	5155.6	5421.4
12.5°	4053.1	4058.0	4087.6	4171.2	4314.0	4370.6	4525.6	4756.9	4948.9	5254.0	5606.0
15°	4257.4	4257.4	4232.8	4242.6	4306.6	4358.3	4520.7	4806.2	5044.9	5372.2	5788.1
17.5°	4653.6	4638.8	4577.3	4493.6	4471.5	4488.7	4619.1	4912.0	5180.2	5510.0	5994.8
20°	5190.1	5195.0	5074.4	4899.7	4759.4	4756.9	4835.7	5099.0	5374.6	5674.9	6218.7
22.5°	5839.7	5820.0	5660.1	5421.4	5177.8	5158.1	5190.1	5384.5	5655.2	5935.7	6494.3
25°	6592.8	6582.9	6356.5	6036.6	5714.2	5667.5	5667.5	5859.4	6056.3	6307.3	6824.1
27.5°	7380.3	7380.3	7161.2	6792.1	6363.9	6280.2	6267.9	6494.3	6624.8	6674.0	7102.2
30°	8189.9	8180.1	7963.5	7584.5	7126.8	7040.7	7006.2	7173.5	7267.1	7119.4	7449.2
32.5°	9011.8	9029.1	8810.1	8458.1	8049.6	7993.0	7887.2	7887.2	7963.5	7756.8	7995.5
35°	9895.3	9890.4	9718.1	9479.4	9130.0	9066.0	8891.3	8618.1	8733.8	8642.7	8751.0
37.5°	10675.4	10712.3	10628.7	10451.5	10168.5	10104.5	9816.6	9321.9	9410.5	9553.2	9649.2
40°	11467.8	11497.4	11581.0	11524.4	11167.6	11049.5	10537.6	9725.5	9823.9	10313.7	10589.3
42.5°	12245.5	12260.2	12430.1	12523.6	12046.1	11839.4	11083.9	9971.6	10075.0	10909.2	11391.5
45°	12740.1	12772.1	13052.7	13338.1	12821.3	12538.3	11558.9	10286.6	10330.9	11322.6	11984.6
47.5°	12720.4	12794.3	13320.9	13840.2	13488.2	13183.1	12129.8	10791.1	10717.3	11711.5	12375.9
50°	12324.2	12412.8	13168.3	13992.7	13968.1	13685.1	12764.7	11522.0	11290.7	12056.0	12425.1
52.5°	11502.3	11758.2	12900.1	14012.4	14354.5	14211.7	13549.8	12506.3	12065.8	12550.6	12503.9
55°	9725.5	10040.5	12085.5	13845.1	14703.9	14721.2	14374.2	13532.5	12907.5	13402.1	12988.7
57.5°	7382.7	7633.7	9302.2	12324.2	14125.6	14408.6	14694.1	14073.9	13426.7	13982.9	13101.9
60°	4449.3	4739.7	5825.0	9043.8	11408.8	11891.1	13010.8	12890.2	12110.1	12348.8	10744.3
62.5°	1803.8	1956.4	2689.8	4983.3	7180.9	7631.3	8704.2	8886.3	8694.4	8450.8	6516.5
65°	659.5	721.0	1077.9	2059.8	3302.5	3467.4	4033.4	4355.8	4621.6	3935.0	2424.0
67.5°	408.5	447.9	701.4	1058.2	1200.9	1117.3	1136.9	1356.0	1294.4	799.8	433.1
70°	302.7	334.7	548.8	733.4	484.8	374.1	253.5	270.7	243.6	214.1	211.6
72.5°	209.2	238.7	411.0	433.1	187.0	132.9	93.5	130.4	147.7	145.2	150.1
75°	137.8	160.0	258.4	169.8	46.8	36.9	32.0	68.9	88.6	88.6	91.1
77.5°	81.2	93.5	91.1	34.5	9.8	9.8	7.4	12.3	19.7	22.1	27.1
80°	9.8	7.4	4.9	4.9	4.9	4.9	4.9	4.9	7.4	7.4	7.4
82.5°	2.5	2.5	2.5	4.9	4.9	4.9	4.9	4.9	4.9	7.4	7.4
85°	0.0	0.0	2.5	2.5	4.9	4.9	4.9	4.9	4.9	7.4	7.4
87.5°	0.0	0.0	2.5	2.5	4.9	4.9	4.9	4.9	4.9	7.4	7.4
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°	5163.0	5163.0	5163.0	5163.0	5163.0	5163.0	5163.0	5163.0	5163.0	5163.0	5163.0
2.5°	5212.2	5195.0	5266.3	5318.0	5359.9	5379.5	5352.5	5350.0	5350.0	5295.9	5281.1
5°	5273.7	5281.1	5382.0	5426.3	5433.7	5409.1	5347.6	5305.7	5281.1	5224.5	5192.5
7.5°	5391.9	5416.5	5512.4	5505.1	5438.6	5325.4	5163.0	5037.5	4956.3	4867.7	4813.5
10°	5561.7	5608.4	5667.5	5564.1	5352.5	5064.6	4729.9	4491.2	4348.4	4247.5	4186.0
12.5°	5768.4	5815.1	5795.4	5551.8	5111.3	4597.0	4166.3	3821.8	3656.9	3565.9	3501.9
15°	5977.5	6007.1	5879.1	5404.2	4685.6	3994.1	3514.2	3172.1	2970.3	2896.5	2842.3
17.5°	6191.6	6184.3	5893.9	5113.8	4117.1	3314.8	2842.3	2608.6	2552.0	2539.7	2534.7
20°	6415.6	6349.1	5834.8	4697.9	3433.0	2643.0	2374.8	2389.5	2492.9	2542.1	2552.0
22.5°	6671.5	6504.2	5687.2	4134.3	2734.1	2202.5	2229.6	2374.8	2515.0	2581.5	2591.3
25°	6944.7	6646.9	5441.1	3410.8	2155.8	2025.3	2185.3	2352.6	2502.7	2584.0	2593.8
27.5°	7124.3	6681.4	5037.5	2682.4	1850.6	1956.4	2126.2	2286.2	2441.2	2529.8	2542.1
30°	7318.7	6666.6	4488.7	2067.2	1747.2	1897.4	2045.0	2190.2	2332.9	2431.4	2441.2
32.5°	7604.2	6656.8	3819.3	1678.3	1705.4	1850.6	1958.9	2079.5	2177.9	2234.5	2227.1
35°	7978.3	6644.5	3039.2	1513.5	1680.8	1813.7	1899.8	1956.4	1848.1	1813.7	1821.1
37.5°	8458.1	6674.0	2382.2	1444.6	1673.4	1803.8	1877.7	1715.3	1547.9	1483.9	1474.1
40°	8989.7	6750.3	1816.2	1417.5	1698.0	1828.5	1794.0	1525.8	1319.0	1193.5	1166.5
42.5°	9523.7	6833.9	1437.2	1407.6	1739.9	1897.4	1656.2	1388.0	1077.9	1006.5	996.7
45°	9919.9	6819.2	1242.8	1390.4	1776.8	1936.7	1619.3	1191.1	962.2	930.2	932.7
47.5°	10119.3	6656.8	1136.9	1351.0	1791.5	1897.4	1528.2	1109.9	883.5	917.9	947.4
50°	10013.4	6235.9	1038.5	1274.8	1759.5	1845.7	1383.0	1048.3	844.1	986.8	1053.3
52.5°	9885.5	5719.2	930.2	1156.6	1683.3	1774.3	1326.4	1031.1	819.5	952.4	1001.6
55°	10055.3	5391.9	753.0	974.5	1533.1	1607.0	1282.1	1028.7	762.9	740.7	733.4
57.5°	9816.6	4739.7	538.9	701.4	1176.3	1272.3	1250.1	1011.4	676.7	674.3	684.1
60°	7587.0	2891.6	369.1	445.4	721.0	812.1	1134.5	967.1	583.2	536.5	538.9
62.5°	4311.5	1230.5	253.5	275.6	369.1	438.0	866.2	878.5	538.9	511.9	538.9
65°	1501.2	440.5	196.9	184.6	204.3	233.8	497.1	679.2	489.7	443.0	447.9
67.5°	310.1	219.0	174.7	152.6	152.6	152.6	253.5	423.3	403.6	351.9	356.8
70°	196.9	187.0	152.6	130.4	125.5	115.7	145.2	233.8	278.1	255.9	258.4
72.5°	145.2	142.7	120.6	105.8	93.5	83.7	91.1	115.7	142.7	147.7	150.1
75°	88.6	91.1	78.7	66.4	59.1	51.7	54.1	54.1	54.1	49.2	54.1
77.5°	27.1	29.5	24.6	19.7	17.2	17.2	17.2	14.8	12.3	7.4	7.4
80°	7.4	7.4	7.4	7.4	7.4	4.9	4.9	2.5	2.5	0.0	0.0
82.5°	7.4	7.4	7.4	7.4	4.9	4.9	2.5	2.5	0.0	0.0	0.0
85°	7.4	7.4	7.4	7.4	4.9	4.9	2.5	2.5	0.0	0.0	0.0
87.5°	7.4	7.4	7.4	7.4	4.9	4.9	2.5	2.5	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)