

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: P643171

Luminaire Tested: GWS-SA6E-735-U-T3-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P643171
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-24)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SAGE-735-U-T3-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (96) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27263.8 lumens
Efficiency: N/A
Efficacy: 84.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

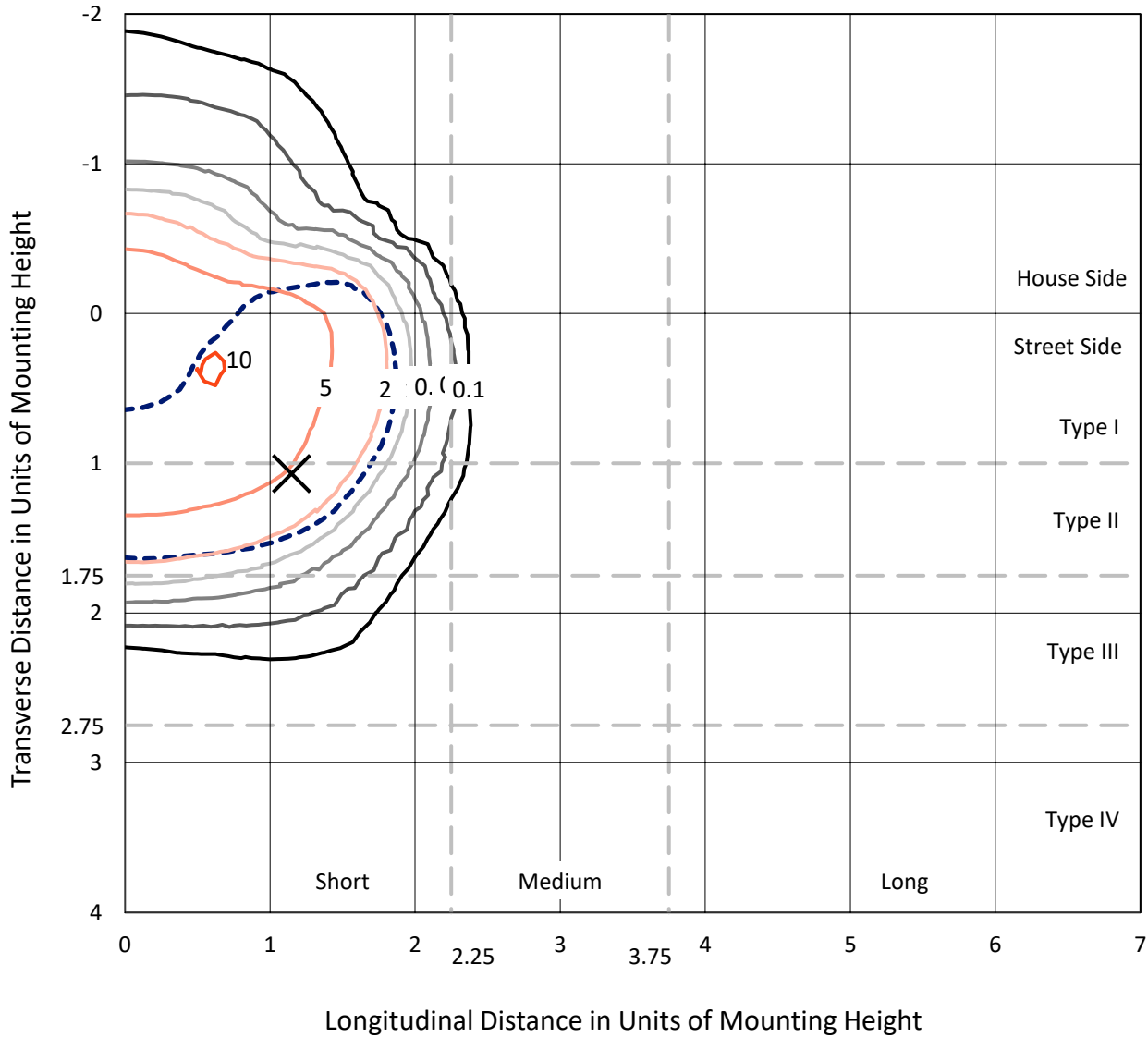
Input Watts (W): 323.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

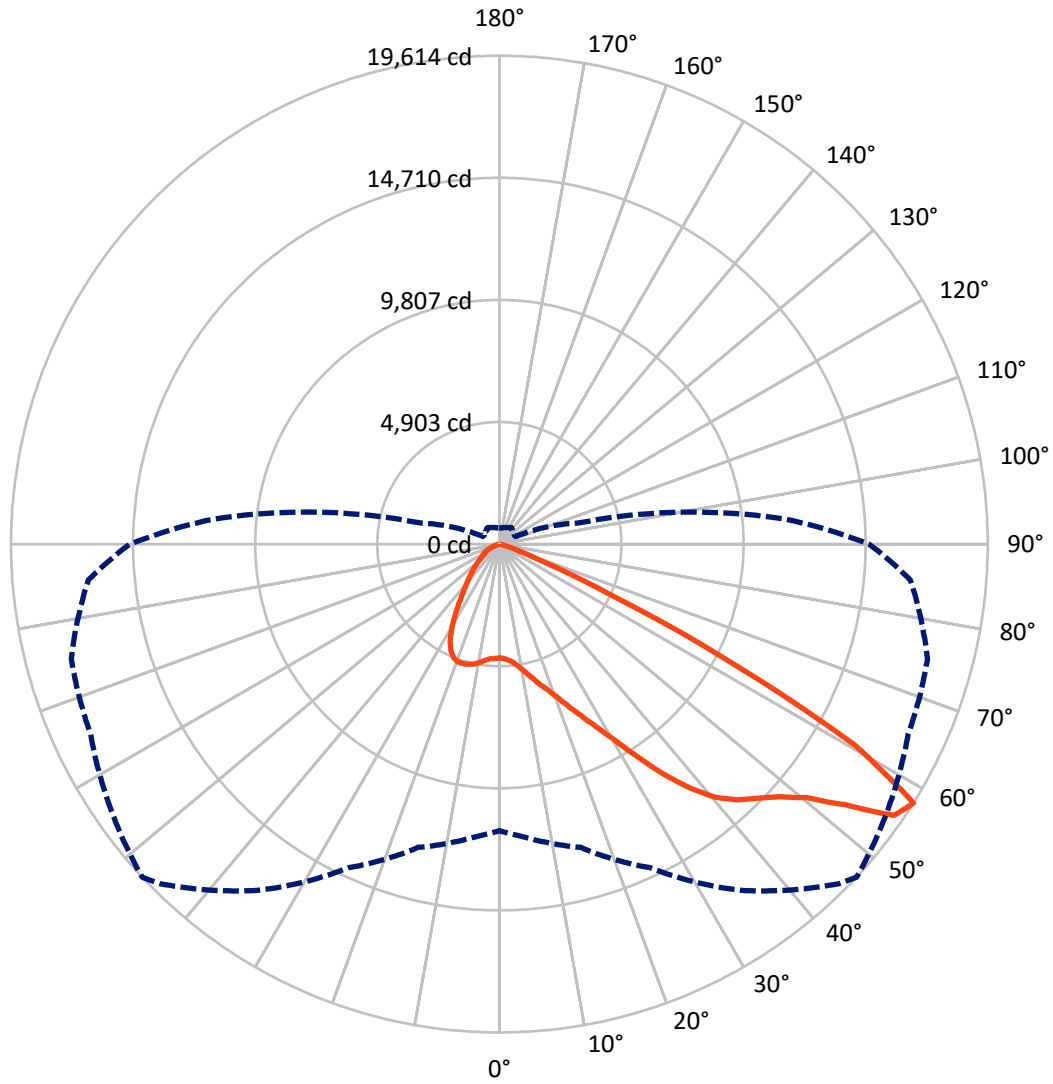
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5914.9	0.0	5914.9
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	21348.9	0.0	21348.9
	% Fixture	78.3	0.0	78.3
Total	Lumens	27263.8	0.0	27263.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	454.1	1.7
10°-20°	1532.1	5.6
20°-30°	2844.8	10.4
30°-40°	4554.0	16.7
40°-50°	6656.8	24.4
50°-60°	8215.7	30.1
60°-70°	2745.2	10.1
70°-80°	255.8	0.9
80°-90°	5.3	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°	27263.8	100.0
0°-180°	27263.8	100.0

Coefficient of Utilization



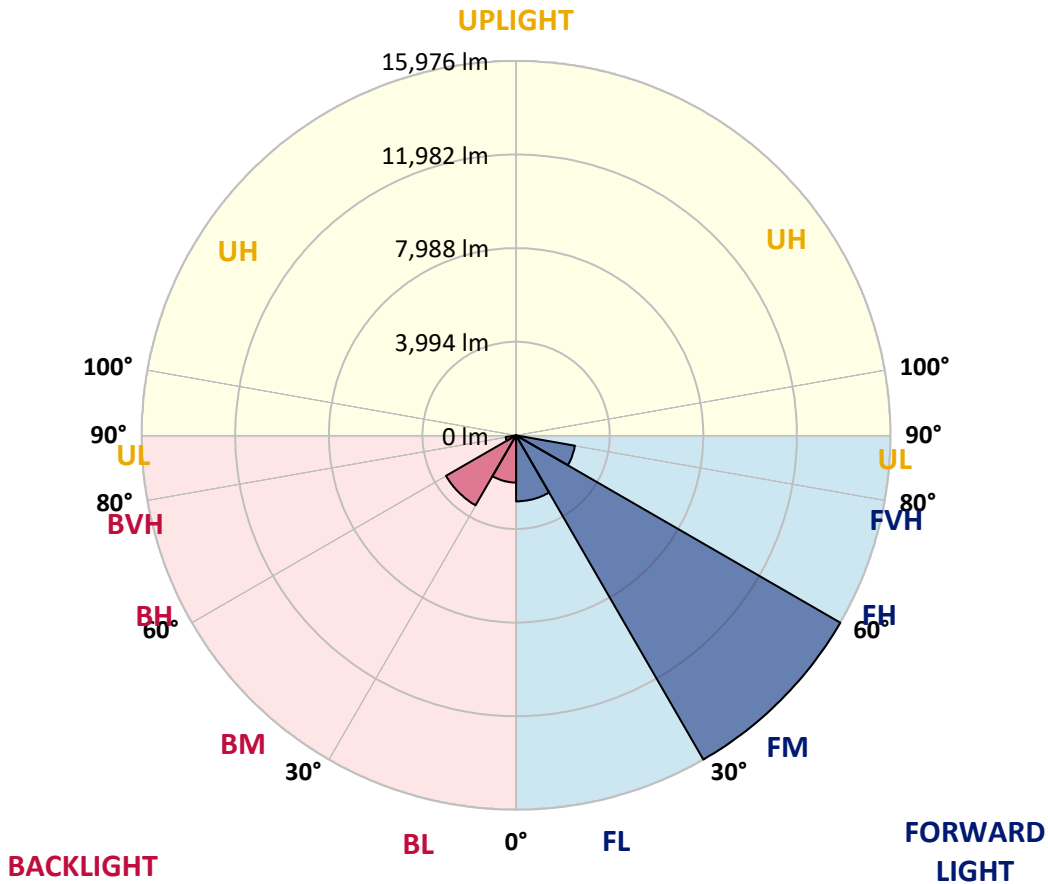
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2817.6	10.3			
FM (30°-60°)	15976.4	58.6			
FH (60°-80°)	2551.3	9.4			G2/5000
FVH (80°-90°)	3.6	0.0			G0/10
BL (0°-30°)	2013.3	7.4	B3/2500		
BM (30°-60°)	3450.1	12.7	B3/5000		
BH (60°-80°)	449.7	1.6	B1/500		G1/500
BVH (80°-90°)	1.7	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°	47°	55°	65°	75°	85°
0°	4564.0	4564.0	4564.0	4564.0	4564.0	4564.0	4564.0	4564.0	4564.0	4564.0	4564.0
2.5°	4611.5	4608.3	4605.1	4624.1	4617.8	4614.6	4621.0	4621.0	4621.0	4602.0	4564.0
5°	4722.2	4722.2	4719.1	4738.1	4722.2	4712.7	4715.9	4715.9	4703.3	4668.4	4621.0
7.5°	4896.3	4890.0	4883.7	4902.6	4886.8	4883.7	4890.0	4871.0	4848.8	4791.9	4725.4
10°	5146.4	5146.4	5136.9	5155.9	5143.2	5136.9	5136.9	5124.2	5083.1	4994.4	4896.3
12.5°	5491.3	5475.5	5453.4	5437.5	5431.2	5428.0	5431.2	5412.2	5367.9	5254.0	5117.9
15°	5868.0	5855.3	5820.5	5795.2	5760.4	5754.0	5773.0	5757.2	5712.9	5557.8	5364.7
17.5°	6342.7	6358.6	6269.9	6216.1	6114.9	6108.5	6114.9	6140.2	6108.5	5909.1	5627.4
20°	6747.9	6760.5	6694.1	6656.1	6564.3	6523.1	6535.8	6577.0	6542.1	6307.9	5915.5
22.5°	7181.5	7197.3	7127.7	7048.5	7007.4	7007.4	7054.9	7111.8	7064.4	6757.4	6244.6
25°	7700.5	7713.2	7656.2	7551.8	7479.0	7570.8	7640.4	7792.3	7713.2	7295.4	6633.9
27.5°	8295.6	8298.7	8216.4	8108.8	8070.9	8241.8	8311.4	8545.6	8514.0	7899.9	7045.4
30°	8931.7	8934.9	8915.9	8843.1	8808.3	9033.0	9128.0	9466.6	9444.5	8650.1	7605.6
32.5°	9593.2	9593.2	9628.1	9621.7	9662.9	10030.0	10181.9	10568.1	10545.9	9567.9	8301.9
35°	10257.9	10261.1	10321.2	10473.1	10644.0	11131.4	11330.8	11799.3	11748.6	10666.2	9191.3
37.5°	11014.3	10982.7	11065.0	11292.9	11672.7	12236.0	12426.0	12872.2	12815.3	11789.8	10352.8
40°	11925.9	11868.9	11868.9	12134.8	12565.2	13214.0	13375.5	13597.0	13403.9	12698.1	11492.3
42.5°	12932.4	12878.6	12808.9	13043.1	13403.9	13910.4	14043.3	13983.2	13824.9	13555.9	12789.9
45°	13951.5	13869.2	13916.7	14059.1	14268.0	14508.5	14559.2	14280.7	14207.9	14283.8	13862.9
47.5°	14726.9	14670.0	14787.1	14986.5	15157.4	15192.2	15157.4	14771.2	14764.9	15033.9	14606.7
50°	14986.5	14992.8	15315.6	15752.4	16027.8	16056.3	16008.8	15565.7	15505.5	15584.7	15008.6
52.5°	15011.8	15037.1	15508.7	16341.1	17091.2	17433.0	17395.1	16917.1	16328.4	16243.0	15616.3
55°	14400.9	14549.7	15208.0	16423.4	18018.6	19110.5	19237.1	18322.4	17448.9	17376.1	16923.5
57.5°	11511.3	11815.1	12609.5	14340.8	16983.6	19284.6	19613.8	18955.4	18110.4	17800.2	16572.2
60°	6880.8	7257.4	8020.2	10144.0	12926.0	15850.5	16417.1	16508.9	16119.6	15223.8	12714.0
62.5°	2953.0	2921.3	3861.4	5488.2	7687.9	10074.3	10330.7	10729.5	11068.1	10131.3	7716.4
65°	1012.8	1101.4	1531.9	2475.1	3848.7	4677.9	4905.8	5263.5	5744.5	4741.2	2826.4
67.5°	626.7	664.7	883.0	1462.2	2076.3	2044.6	1943.3	1886.4	1835.7	1256.5	775.4
70°	455.8	487.4	620.3	1006.5	1395.8	981.2	851.4	690.0	765.9	705.8	550.7
72.5°	307.0	332.3	427.3	610.9	715.3	477.9	443.1	503.2	607.7	579.2	449.4
75°	183.6	199.4	243.7	297.5	291.2	246.9	250.0	354.5	465.3	433.6	319.7
77.5°	126.6	132.9	161.4	193.1	142.4	76.0	69.6	98.1	158.3	158.3	107.6
80°	31.7	41.1	41.1	25.3	22.2	19.0	19.0	28.5	44.3	31.7	15.8
82.5°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	6.3	6.3	6.3	6.3
85°	0.0	0.0	3.2	3.2	3.2	3.2	3.2	3.2	6.3	6.3	6.3
87.5°	0.0	0.0	3.2	3.2	3.2	3.2	3.2	3.2	3.2	6.3	6.3
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°	4564.0	4564.0	4564.0	4564.0	4564.0	4564.0	4564.0	4564.0	4564.0	4564.0	4564.0
2.5°	4586.1	4548.2	4573.5	4567.2	4586.1	4592.5	4564.0	4557.7	4560.8	4522.8	4510.2
5°	4630.5	4586.1	4598.8	4586.1	4608.3	4627.3	4617.8	4630.5	4646.3	4617.8	4605.1
7.5°	4725.4	4681.1	4677.9	4658.9	4690.6	4703.3	4700.1	4734.9	4766.6	4747.6	4728.6
10°	4890.0	4829.9	4823.5	4807.7	4817.2	4826.7	4791.9	4798.2	4826.7	4804.5	4795.0
12.5°	5092.6	5019.8	5003.9	4965.9	4965.9	4918.5	4842.5	4826.7	4848.8	4833.0	4817.2
15°	5310.9	5212.8	5187.5	5121.0	5057.7	4969.1	4890.0	4871.0	4886.8	4867.8	4855.2
17.5°	5554.6	5443.9	5361.6	5244.5	5105.2	5000.8	4912.1	4871.0	4845.7	4807.7	4804.5
20°	5795.2	5649.6	5510.3	5323.6	5140.0	4981.8	4836.2	4728.6	4636.8	4579.8	4557.7
22.5°	6073.7	5858.5	5633.8	5371.1	5108.4	4867.8	4611.5	4427.9	4269.6	4215.8	4190.5
25°	6371.2	6092.7	5757.2	5415.4	5000.8	4614.6	4266.5	3994.3	3785.4	3715.8	3687.3
27.5°	6700.4	6317.4	5883.8	5405.9	4779.2	4253.8	3791.7	3453.1	3247.3	3184.0	3206.2
30°	7118.2	6608.6	6042.1	5307.8	4446.9	3747.4	3206.2	2921.3	2766.2	2706.1	2709.3
32.5°	7675.2	7026.4	6273.1	5098.9	4019.6	3171.4	2696.6	2487.7	2383.3	2304.1	2297.8
35°	8472.8	7662.6	6488.3	4763.4	3500.5	2658.6	2313.6	2149.1	2003.5	1911.7	1927.5
37.5°	9428.7	8463.3	6605.4	4310.8	2918.2	2259.8	2025.6	1857.9	1693.3	1557.2	1573.0
40°	10561.7	9510.9	6595.9	3715.8	2386.4	1987.6	1785.1	1588.9	1383.1	1259.7	1272.3
42.5°	11824.6	10501.6	6390.2	3085.9	1978.2	1766.1	1554.0	1307.2	1107.8	1031.8	1035.0
45°	12919.7	11305.5	6029.4	2433.9	1664.8	1550.9	1313.5	1060.3	971.7	917.9	914.7
47.5°	13729.9	11894.2	5513.5	1914.8	1411.6	1354.6	1079.3	949.5	879.9	835.6	829.2
50°	14182.5	12100.0	4943.8	1500.2	1193.2	1148.9	965.3	860.9	813.4	784.9	778.6
52.5°	14790.2	12346.8	4535.5	1183.7	1000.2	940.0	889.4	800.8	769.1	746.9	737.5
55°	15752.4	12824.7	4181.0	940.0	832.4	819.7	838.7	765.9	746.9	712.1	699.5
57.5°	14847.2	11520.7	3247.3	728.0	702.6	750.1	810.3	731.1	683.6	652.0	639.3
60°	10447.8	7659.4	1633.2	585.5	626.7	702.6	762.8	661.5	614.0	620.3	614.0
62.5°	5760.4	3832.9	734.3	490.6	544.4	620.3	652.0	572.9	541.2	595.0	604.5
65°	1883.2	1304.0	424.1	379.8	430.4	506.4	563.4	544.4	538.1	601.4	620.3
67.5°	579.2	430.4	288.0	272.2	297.5	373.5	474.8	588.7	633.0	652.0	661.5
70°	433.6	338.7	246.9	231.0	243.7	284.9	402.0	490.6	462.1	465.3	458.9
72.5°	348.2	269.0	212.1	202.6	202.6	196.2	212.1	265.9	300.7	316.5	316.5
75°	243.7	189.9	161.4	148.8	117.1	95.0	85.5	85.5	76.0	72.8	69.6
77.5°	82.3	69.6	63.3	50.6	34.8	28.5	25.3	22.2	15.8	9.5	6.3
80°	12.7	9.5	6.3	6.3	6.3	3.2	3.2	3.2	0.0	0.0	0.0
82.5°	6.3	6.3	6.3	6.3	6.3	3.2	3.2	0.0	0.0	0.0	0.0
85°	6.3	6.3	6.3	6.3	6.3	3.2	3.2	0.0	0.0	0.0	0.0
87.5°	6.3	6.3	6.3	6.3	3.2	3.2	3.2	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)