

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: P638799

Luminaire Tested: GWS-SA4F-750-U-SL2-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638799
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-SA4F-750-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) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20436.7 lumens
Efficiency: N/A
Efficacy: 90.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

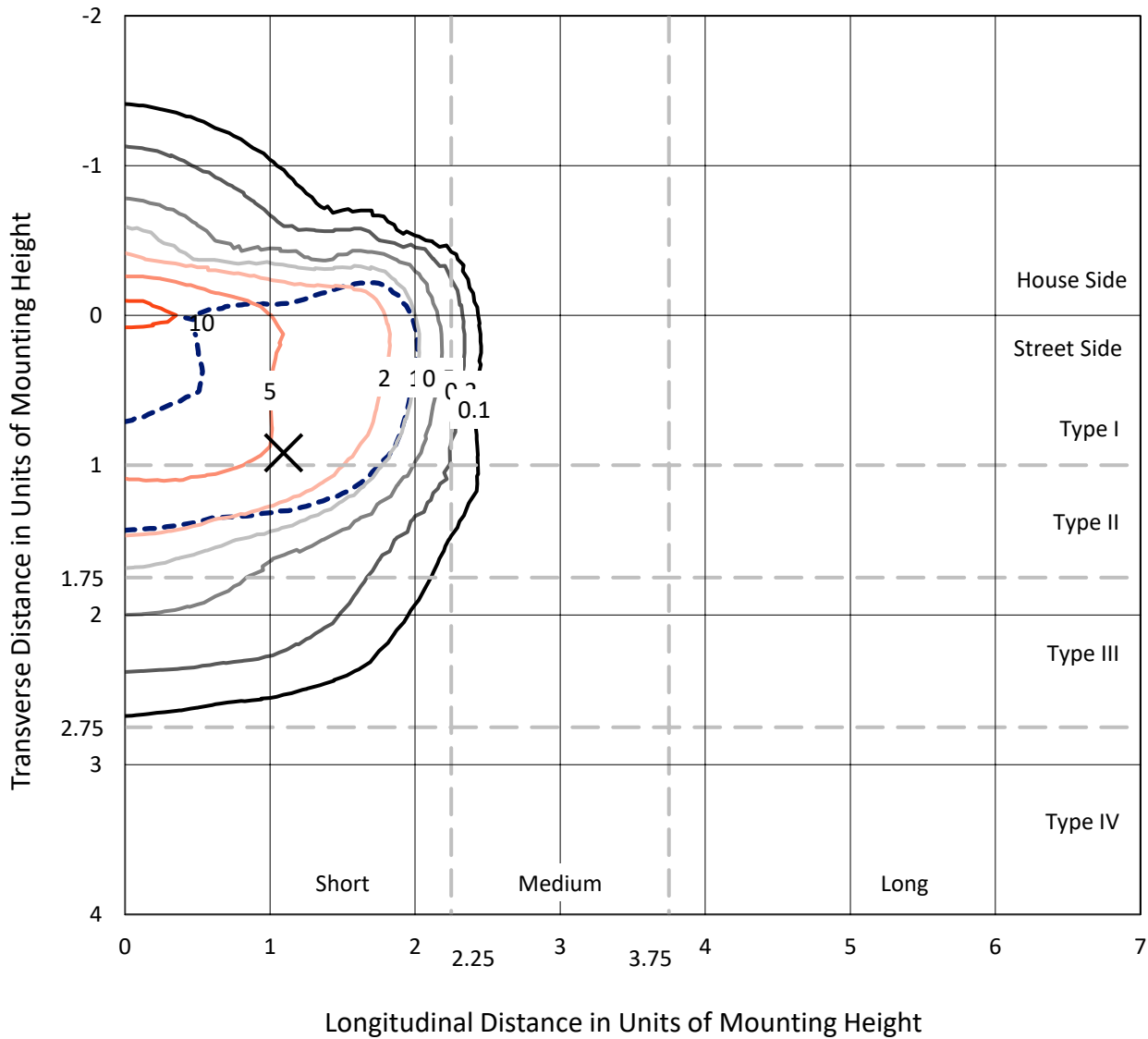
Input Watts (W): 225.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

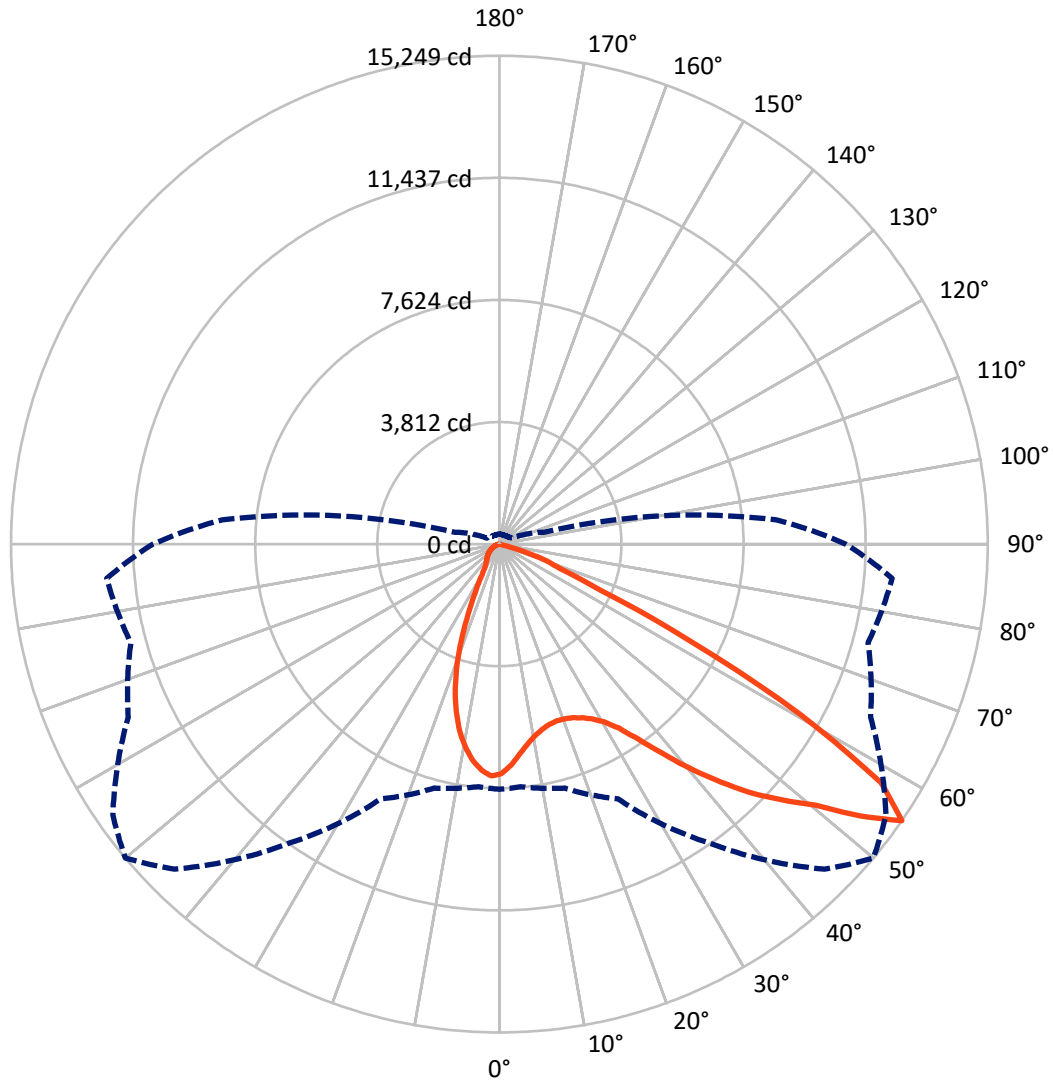
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.5 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	4027.0	0.0	4027.0
	% Fixture	19.7	0.0	19.7
Street Side	Lumens	16409.7	0.0	16409.7
	% Fixture	80.3	0.0	80.3
Total	Lumens	20436.7	0.0	20436.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	629.7	3.1
10°-20°	1549.6	7.6
20°-30°	2185.8	10.7
30°-40°	3234.5	15.8
40°-50°	4666.3	22.8
50°-60°	5504.3	26.9
60°-70°	2455.4	12.0
70°-80°	211.1	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°	20436.7	100.0
0°-180°	20436.7	100.0

Coefficient of Utilization



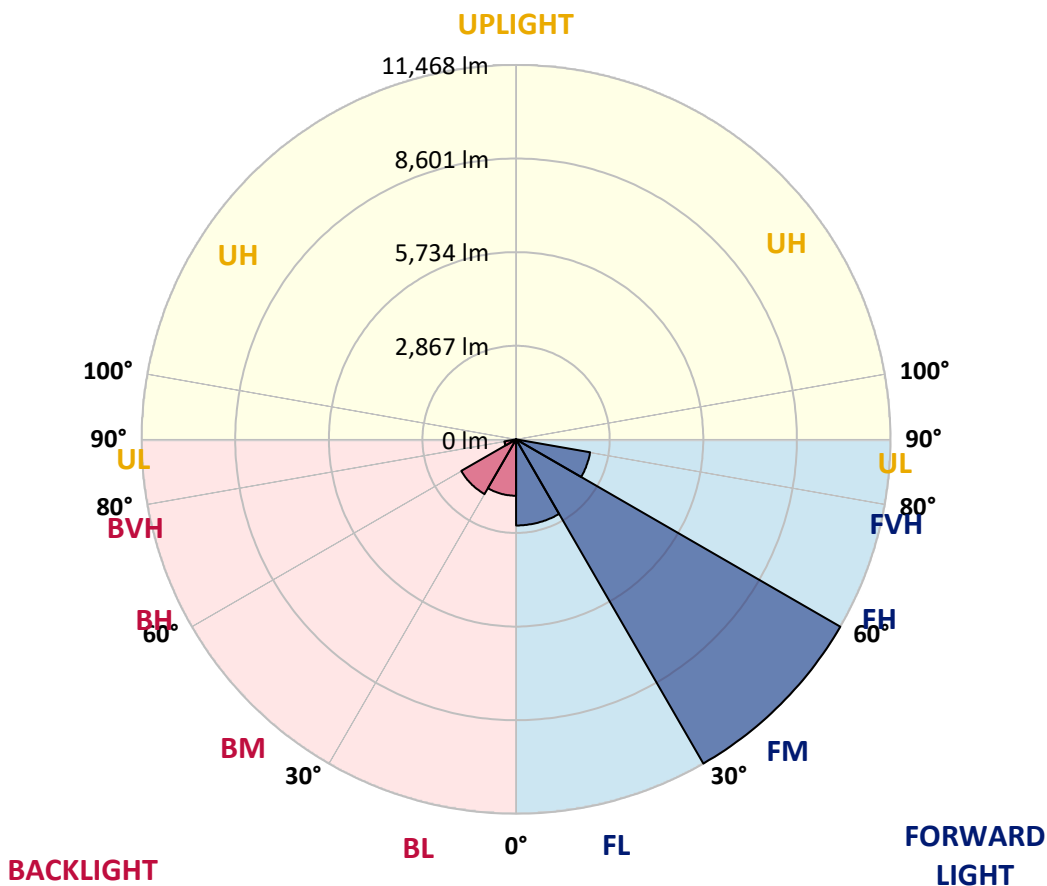
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2638.4	12.9			
FM (30°-60°)	11468.4	56.1			
FH (60°-80°)	2302.8	11.3			G2/5000
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	1726.6	8.4	B3/2500		
BM (30°-60°)	1936.7	9.5	B2/2500		
BH (60°-80°)	363.6	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°	7170.3	7170.3	7170.3	7170.3	7170.3	7170.3	7170.3	7170.3	7170.3	7170.3	7170.3
2.5°	6661.4	6666.4	6668.9	6736.2	6761.2	6861.0	6913.4	6940.8	7013.2	7098.0	7167.8
5°	6214.8	6207.3	6219.8	6304.6	6359.5	6506.7	6586.5	6641.4	6801.1	7000.7	7167.8
7.5°	5825.6	5840.6	5855.5	5947.8	6030.2	6189.8	6304.6	6386.9	6609.0	6905.9	7187.8
10°	5551.1	5551.1	5573.6	5678.4	5775.7	5972.8	6087.5	6192.3	6456.8	6821.0	7210.2
12.5°	5349.1	5351.6	5379.0	5498.8	5611.0	5815.6	5935.4	6037.6	6329.6	6736.2	7215.2
15°	5254.3	5246.8	5269.2	5396.5	5521.2	5713.3	5838.1	5937.9	6239.7	6688.8	7240.2
17.5°	5229.3	5224.3	5241.8	5366.5	5493.8	5680.9	5803.1	5902.9	6227.3	6703.8	7315.0
20°	5301.7	5291.7	5284.2	5391.5	5511.2	5695.8	5823.1	5935.4	6287.1	6786.1	7429.8
22.5°	5473.8	5473.8	5456.3	5508.7	5588.6	5755.7	5888.0	6035.2	6444.3	6950.8	7599.5
25°	5790.7	5765.7	5733.3	5755.7	5745.7	5850.5	6007.7	6212.3	6741.2	7222.7	7806.5
27.5°	6152.4	6174.9	6120.0	6122.5	6035.2	5997.7	6179.9	6489.2	7182.8	7606.9	8113.4
30°	6643.9	6626.4	6628.9	6621.5	6419.4	6242.2	6439.3	6851.0	7739.2	8193.2	8512.6
32.5°	7028.1	7053.1	7135.4	7182.8	6918.3	6633.9	6843.5	7342.5	8372.9	8861.9	9001.6
35°	7434.8	7479.7	7646.9	7801.5	7579.5	7252.7	7477.2	7993.6	8969.2	9523.0	9562.9
37.5°	7863.9	7953.7	8153.3	8425.3	8390.3	8100.9	8305.5	8759.6	9438.2	9922.2	10027.0
40°	8355.4	8442.7	8769.6	9161.3	9243.6	9178.7	9246.1	9510.5	9747.6	9939.7	10226.6
42.5°	8894.3	9014.1	9428.2	9952.1	10261.5	10318.9	10161.7	10134.3	9882.3	9740.1	10184.2
45°	9530.5	9670.2	10139.3	10817.9	11309.4	11386.7	11114.8	10763.0	9967.1	9592.9	10056.9
47.5°	10244.0	10376.3	10842.8	11658.6	12389.7	12419.6	11945.6	11379.2	10219.1	9762.5	10154.2
50°	10483.6	10565.9	10970.1	11928.1	13275.3	13504.9	12818.8	12072.8	10725.6	10261.5	10628.3
52.5°	9660.2	9692.7	10044.5	11012.5	13095.7	14570.2	14093.7	13108.2	11626.2	11022.4	11359.3
55°	7654.3	7601.9	7886.4	8774.5	11381.7	14353.1	15248.8	14734.9	12786.3	11915.6	12309.8
57.5°	5354.0	5291.7	5226.8	5828.1	8492.6	12167.6	14051.3	14961.9	13891.6	12801.3	13335.2
60°	4401.0	4341.1	4026.8	3749.8	5134.5	8737.1	10792.9	12506.9	13801.8	12756.4	13302.8
62.5°	3802.2	3767.3	3640.1	3263.3	3021.3	4987.3	6758.7	8400.3	10590.8	10017.0	10046.9
65°	2986.4	2976.4	3063.7	3103.7	2672.0	2759.4	3447.9	4366.1	5725.8	5399.0	5119.5
67.5°	2040.8	2018.4	2183.0	2684.5	2569.7	2178.0	2018.4	2035.8	2477.4	1514.4	1202.5
70°	1297.3	1245.0	1247.4	1664.1	2090.7	1719.0	1556.8	1369.7	1232.5	224.5	254.5
72.5°	830.8	798.4	686.1	751.0	968.0	838.3	845.8	728.5	486.5	119.8	139.7
75°	349.3	321.8	247.0	197.1	194.6	122.2	107.3	99.8	67.4	67.4	72.4
77.5°	2.5	0.0	0.0	2.5	5.0	2.5	2.5	5.0	10.0	15.0	17.5
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5
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°	7170.3	7170.3	7170.3	7170.3	7170.3	7170.3	7170.3	7170.3	7170.3	7170.3	7170.3
2.5°	7210.2	7150.4	7217.7	7242.7	7240.2	7242.7	7170.3	7120.4	7117.9	7055.6	7025.6
5°	7237.7	7190.3	7240.2	7207.8	7130.4	7033.1	6903.4	6791.1	6741.2	6668.9	6633.9
7.5°	7290.1	7240.2	7232.7	7103.0	6910.9	6706.3	6476.7	6272.2	6162.4	6030.2	6037.6
10°	7327.5	7270.1	7172.8	6908.4	6589.0	6262.2	5920.4	5616.0	5423.9	5246.8	5216.8
12.5°	7342.5	7257.7	7030.6	6631.4	6182.4	5755.7	5254.3	4820.1	4520.8	4288.7	4256.3
15°	7369.9	7232.7	6848.5	6297.1	5680.9	5077.1	4438.4	3844.6	3447.9	3181.0	3203.4
17.5°	7412.3	7205.3	6643.9	5922.9	5142.0	4288.7	3425.5	2744.4	2380.1	2225.4	2227.9
20°	7472.2	7172.8	6419.4	5511.2	4495.8	3398.0	2395.1	1881.2	1778.9	1773.9	1766.4
22.5°	7552.0	7140.4	6179.9	5059.6	3729.9	2380.1	1594.2	1434.6	1477.0	1559.3	1574.3
25°	7646.9	7100.5	5912.9	4550.7	2894.1	1561.8	1195.1	1170.1	1272.4	1382.2	1407.1
27.5°	7794.1	7080.5	5608.5	3971.9	2030.8	1120.2	978.0	993.0	1085.3	1177.6	1200.0
30°	8043.5	7117.9	5276.7	3323.2	1304.8	893.2	848.3	870.7	920.6	968.0	988.0
32.5°	8382.9	7227.7	4954.9	2614.7	930.6	775.9	765.9	778.4	798.4	825.8	833.3
35°	8779.5	7417.3	4623.0	1871.2	768.4	708.6	698.6	698.6	708.6	713.5	716.0
37.5°	9106.4	7616.9	4311.2	1245.0	688.6	656.2	641.2	633.7	631.2	636.2	638.7
40°	9248.6	7699.2	3971.9	905.6	631.2	608.8	586.3	563.8	563.8	581.3	583.8
42.5°	9148.8	7606.9	3580.2	748.5	591.3	558.9	523.9	504.0	513.9	531.4	536.4
45°	8936.7	7379.9	3148.6	661.1	551.4	509.0	469.0	456.6	466.5	489.0	494.0
47.5°	8901.8	7230.2	2632.1	603.8	509.0	466.5	424.1	411.7	424.1	441.6	446.6
50°	9248.6	7359.9	2058.3	553.9	469.0	421.6	386.7	374.2	381.7	391.7	396.7
52.5°	9882.3	7841.5	1661.6	506.5	421.6	376.7	354.3	339.3	339.3	349.3	351.8
55°	10817.9	8682.2	1434.6	451.6	366.7	341.8	321.8	306.9	306.9	311.9	314.4
57.5°	11895.7	9700.2	1487.0	379.2	321.8	309.4	291.9	279.4	284.4	284.4	284.4
60°	11746.0	9625.3	1591.7	319.3	284.4	279.4	264.5	259.5	271.9	262.0	257.0
62.5°	8652.3	6648.9	833.3	262.0	244.5	239.5	229.5	239.5	257.0	229.5	219.6
65°	4201.4	3218.4	334.3	214.6	207.1	202.1	197.1	212.1	222.0	179.6	169.7
67.5°	988.0	803.4	217.1	182.1	172.1	162.2	167.2	169.7	162.2	122.2	117.3
70°	257.0	252.0	169.7	152.2	137.2	127.2	127.2	124.7	107.3	77.3	72.4
72.5°	139.7	137.2	122.2	114.8	94.8	84.8	87.3	77.3	59.9	44.9	42.4
75°	69.9	74.8	69.9	64.9	52.4	47.4	47.4	42.4	29.9	17.5	17.5
77.5°	15.0	17.5	17.5	15.0	12.5	10.0	10.0	12.5	5.0	0.0	0.0
80°	2.5	2.5	2.5	2.5	2.5	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)