

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: P642422

Luminaire Tested: GWS-SA6C-830-U-AFL-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P642422
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-46)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA6C-830-U-AFL-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (96) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16988.3 lumens
Efficiency: N/A
Efficacy: 89.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

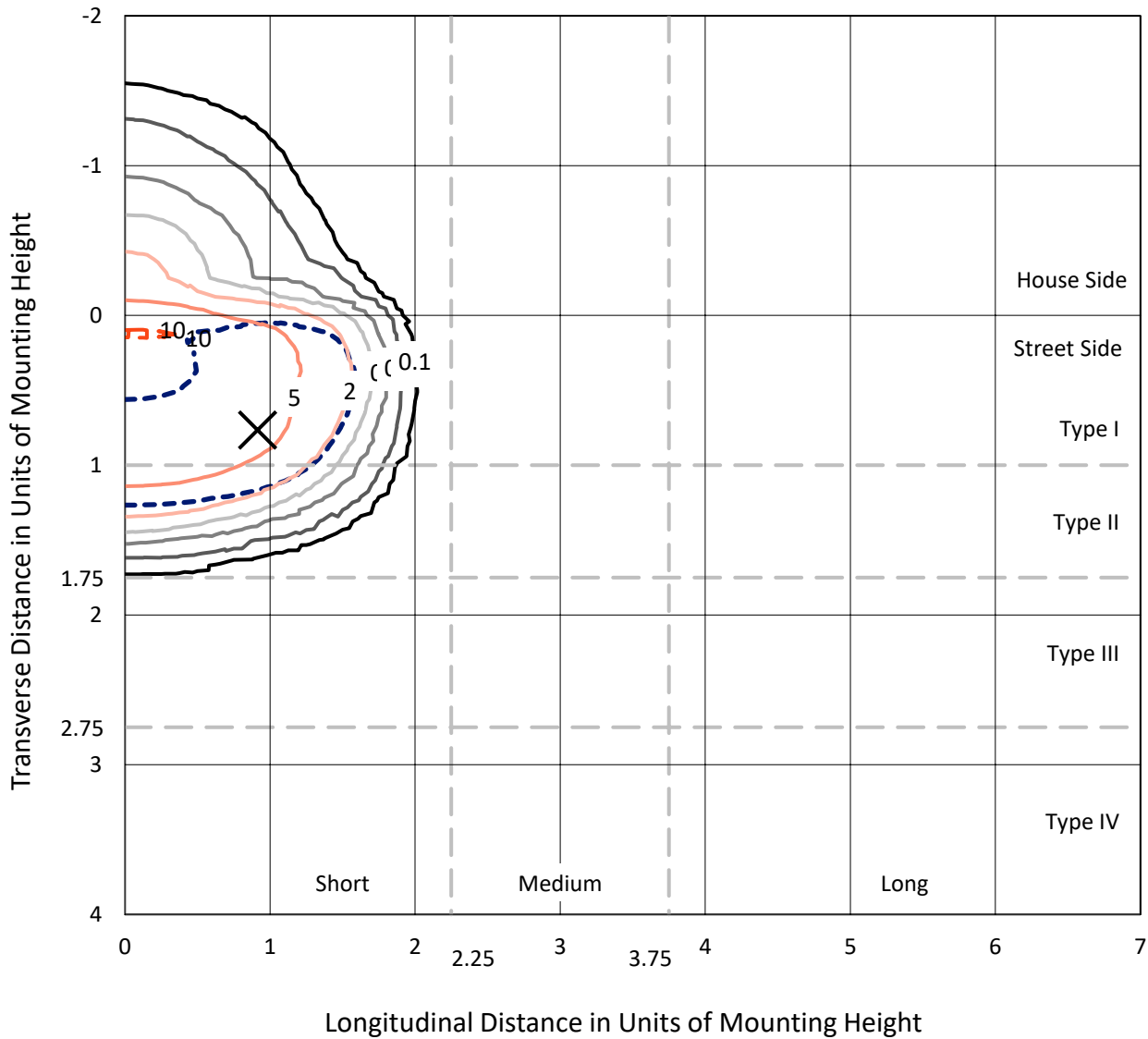
Input Watts (W): 189.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

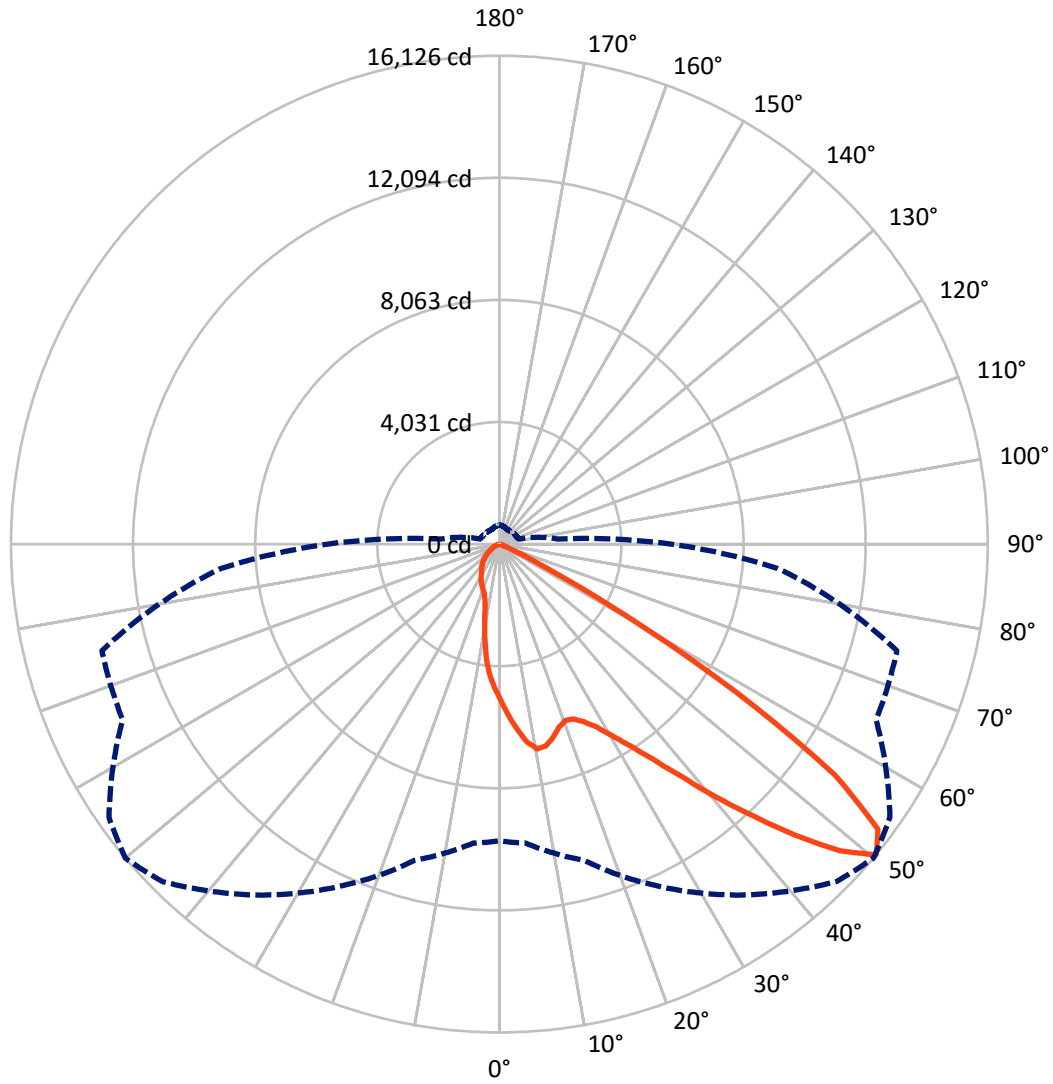
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 50-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2182.7	0.0	2182.7
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	14805.6	0.0	14805.6
	% Fixture	87.2	0.0	87.2
Total	Lumens	16988.3	0.0	16988.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	477.4	2.8
10°-20°	1231.8	7.3
20°-30°	2033.0	12.0
30°-40°	3354.8	19.7
40°-50°	5308.1	31.2
50°-60°	4018.9	23.7
60°-70°	503.0	3.0
70°-80°	56.9	0.3
80°-90°	4.4	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°	16988.3	100.0
0°-180°	16988.3	100.0

Coefficient of Utilization



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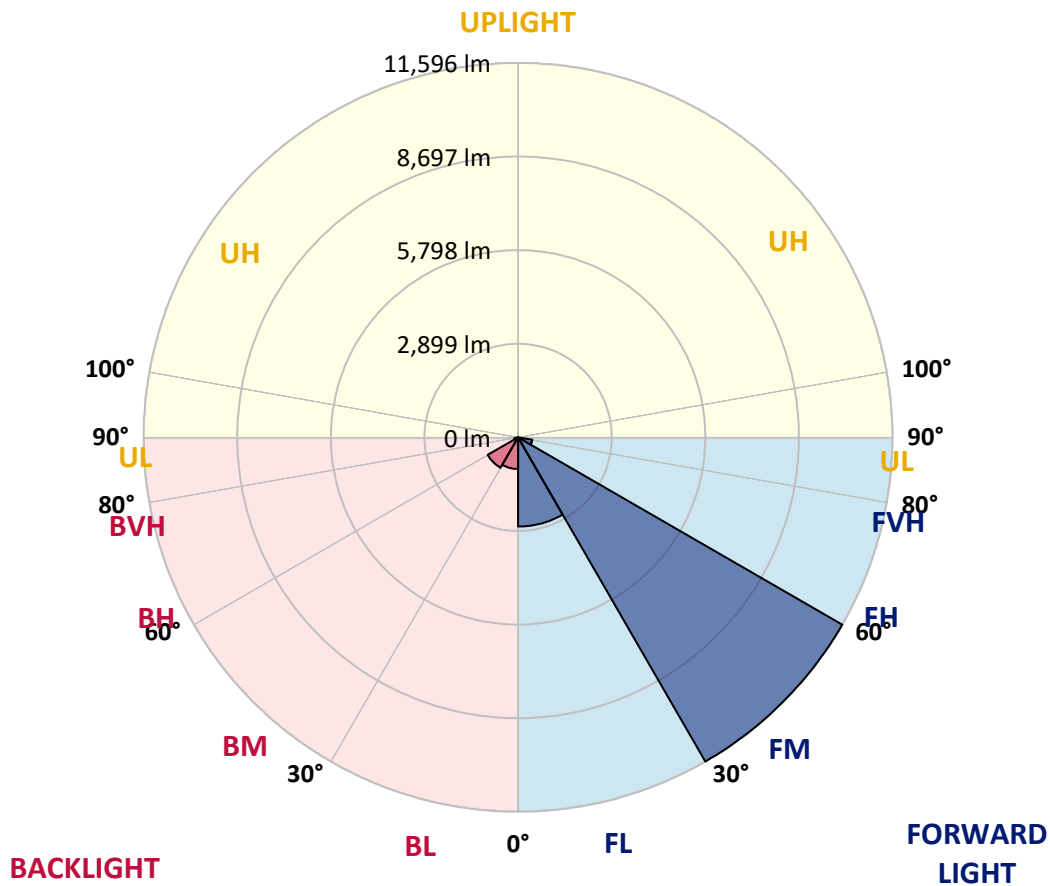
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2762.5	16.3			
FM (30°-60°)	11596.3	68.3			
FH (60°-80°)	444.7	2.6			G0/660
FVH (80°-90°)	2.0	0.0			G0/10
BL (0°-30°)	979.7	5.8	B2/1000		
BM (30°-60°)	1085.5	6.4	B2/2500		
BH (60°-80°)	115.2	0.7	B1/500		G1/500
BVH (80°-90°)	2.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
0°	5146.8	5146.8	5146.8	5146.8	5146.8	5146.8	5146.8	5146.8	5146.8	5146.8	5146.8
2.5°	5864.7	5911.6	5898.7	5837.2	5770.9	5724.0	5651.3	5628.6	5463.7	5348.9	5227.6
5°	6572.9	6587.5	6571.3	6496.9	6380.5	6268.9	6149.3	6079.8	5803.3	5554.3	5300.4
7.5°	6742.7	6724.9	6755.7	6792.8	6776.7	6728.2	6602.0	6526.0	6196.2	5790.3	5405.5
10°	6212.4	6171.9	6286.7	6479.2	6681.3	6909.3	6876.9	6883.4	6579.4	6087.8	5542.9
12.5°	5509.0	5492.8	5578.5	5801.6	6197.8	6715.2	6839.7	7048.3	6930.3	6409.6	5699.8
15°	5200.1	5208.2	5260.0	5400.6	5685.2	6328.8	6627.9	7004.7	7244.0	6721.7	5872.8
17.5°	5247.0	5276.1	5274.5	5321.4	5494.4	6010.2	6359.5	6867.2	7486.5	7080.7	6071.7
20°	5565.6	5594.7	5551.0	5515.4	5573.7	5929.4	6218.8	6728.2	7649.8	7442.9	6281.9
22.5°	6042.6	6076.5	5973.0	5871.2	5834.0	6062.0	6272.2	6671.6	7774.3	7774.3	6469.5
25°	6619.8	6666.7	6506.6	6325.5	6222.1	6341.7	6500.2	6799.3	7902.1	8071.9	6597.2
27.5°	7265.0	7266.6	7129.2	6925.4	6731.4	6746.0	6841.4	7087.1	8042.8	8392.0	6697.4
30°	7991.0	7995.9	7813.1	7569.0	7324.8	7258.5	7339.4	7525.3	8335.4	8794.6	6836.5
32.5°	8928.8	8951.5	8689.5	8330.6	8013.6	7889.1	7936.0	8131.7	8801.1	9299.1	7045.1
35°	10196.5	10220.8	9834.3	9360.6	8856.1	8668.5	8715.4	8912.7	9475.4	10015.4	7378.2
37.5°	11448.1	11480.4	11089.1	10647.7	9955.6	9645.2	9693.7	9881.2	10487.6	11005.0	7911.8
40°	12313.1	12356.8	12235.5	11938.0	11296.1	10888.6	10946.8	11014.7	11601.7	12188.6	8603.8
42.5°	12769.1	12830.6	12882.3	13034.3	12696.4	12355.2	12256.5	12261.4	12735.2	13394.9	9323.4
45°	12796.6	12856.4	13121.6	13708.6	13965.7	13894.5	13715.0	13593.8	13600.2	14198.5	9772.9
47.5°	11907.3	12018.9	12515.3	13664.9	14631.9	15222.0	15131.5	14843.7	13964.1	14251.9	9724.4
50°	9800.4	9910.3	10812.6	12466.8	14146.8	15752.4	16125.9	15739.5	13726.4	13587.3	9224.7
52.5°	7117.9	7129.2	7714.5	9646.8	12180.5	14774.2	15653.8	15616.6	13364.2	12782.1	8542.4
55°	3381.1	3340.6	3998.7	5444.3	8424.4	11949.3	13432.1	13852.5	12850.0	12200.0	8013.6
57.5°	984.7	1004.1	1296.8	2124.7	4213.8	7636.9	9198.9	9981.5	10547.4	10030.0	6215.6
60°	441.4	443.0	493.2	646.8	1403.5	3552.5	4755.5	5724.0	6306.1	5843.7	3083.5
62.5°	320.2	321.8	341.2	365.4	477.0	1203.0	1783.5	2376.9	2420.6	1584.6	781.0
65°	266.8	266.8	270.0	270.0	286.2	430.1	541.7	698.5	588.6	436.6	305.6
67.5°	215.1	216.7	219.9	219.9	215.1	215.1	232.8	255.5	273.3	337.9	281.4
70°	168.2	166.5	166.5	168.2	163.3	139.1	150.4	171.4	187.6	263.6	244.2
72.5°	131.0	132.6	131.0	124.5	113.2	82.5	88.9	111.6	119.7	164.9	164.9
75°	98.6	100.3	93.8	71.1	46.9	25.9	34.0	55.0	69.5	80.8	59.8
77.5°	12.9	12.9	9.7	9.7	8.1	9.7	9.7	12.9	19.4	19.4	14.6
80°	1.6	1.6	1.6	3.2	4.9	6.5	6.5	6.5	6.5	8.1	8.1
82.5°	1.6	1.6	1.6	1.6	4.9	4.9	6.5	6.5	6.5	6.5	6.5
85°	0.0	0.0	0.0	1.6	3.2	4.9	4.9	6.5	6.5	6.5	6.5
87.5°	0.0	0.0	0.0	1.6	3.2	4.9	4.9	4.9	6.5	6.5	6.5
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°	5146.8	5146.8	5146.8	5146.8	5146.8	5146.8	5146.8	5146.8	5146.8	5146.8	5146.8
2.5°	5154.9	5061.1	4947.9	4870.3	4760.3	4687.6	4584.1	4514.5	4454.7	4407.8	4433.7
5°	5156.5	5007.7	4776.5	4579.2	4364.2	4166.9	3955.1	3788.5	3638.2	3570.2	3607.4
7.5°	5188.8	4975.4	4621.3	4270.4	3858.1	3450.6	3069.0	2758.5	2604.9	2532.2	2554.8
10°	5251.9	4960.8	4448.3	3866.1	3196.7	2640.5	2270.2	2060.0	1974.3	1929.0	1937.1
12.5°	5310.1	4951.1	4223.5	3334.2	2522.5	2048.7	1856.3	1827.2	1844.9	1846.6	1844.9
15°	5389.3	4933.3	3945.4	2787.6	2018.0	1770.6	1775.4	1817.5	1859.5	1872.4	1869.2
17.5°	5473.4	4905.9	3586.4	2263.7	1712.4	1689.7	1746.3	1802.9	1844.9	1851.4	1853.0
20°	5560.7	4849.3	3177.3	1848.2	1570.1	1628.3	1691.3	1733.4	1764.1	1773.8	1777.0
22.5°	5601.1	4729.6	2705.2	1550.7	1474.7	1552.3	1599.2	1654.1	1663.9	1628.3	1634.7
25°	5580.1	4527.5	2244.3	1350.2	1379.3	1456.9	1526.4	1498.9	1458.5	1432.6	1440.7
27.5°	5513.8	4259.1	1793.2	1203.0	1277.4	1376.0	1384.1	1353.4	1346.9	1325.9	1332.4
30°	5442.7	3950.2	1442.3	1085.0	1173.9	1277.4	1253.1	1264.5	1266.1	1241.8	1249.9
32.5°	5399.0	3626.8	1148.0	1005.7	1107.6	1127.0	1175.5	1198.2	1199.8	1143.2	1152.9
35°	5413.6	3308.3	971.8	941.1	1046.2	1041.3	1109.2	1122.2	1028.4	950.8	958.9
37.5°	5531.6	3014.0	871.5	890.9	939.5	976.6	1028.4	942.7	921.7	886.1	890.9
40°	5751.5	2763.4	811.7	860.2	866.7	926.5	847.3	858.6	860.2	837.6	842.4
42.5°	6008.6	2554.8	776.1	842.4	826.3	836.0	756.7	779.4	803.6	793.9	795.5
45°	6138.0	2351.1	745.4	781.0	785.8	693.7	675.9	700.1	730.9	735.7	737.3
47.5°	6023.2	2157.0	713.1	692.1	724.4	632.2	611.2	619.3	654.9	674.3	677.5
50°	5672.3	1933.9	664.6	612.8	595.0	567.6	548.1	549.8	590.2	624.1	630.6
52.5°	5179.1	1701.0	585.3	519.0	478.6	499.6	504.5	494.8	532.0	565.9	572.4
55°	4700.5	1410.0	464.1	422.0	384.8	430.1	443.0	430.1	441.4	464.1	465.7
57.5°	3309.9	797.2	355.7	349.3	318.5	368.7	389.7	370.3	350.9	365.4	368.7
60°	1534.5	417.2	273.3	273.3	265.2	316.9	352.5	325.0	287.8	294.3	299.1
62.5°	480.2	263.6	200.5	189.2	216.7	270.0	299.1	271.6	228.0	228.0	234.5
65°	271.6	226.4	158.5	145.5	176.2	216.7	234.5	205.4	166.5	163.3	163.3
67.5°	252.2	215.1	140.7	118.0	124.5	139.1	145.5	126.1	114.8	113.2	114.8
70°	208.6	179.5	113.2	80.8	76.0	74.4	77.6	72.8	69.5	71.1	76.0
72.5°	129.4	108.3	71.1	48.5	42.0	40.4	40.4	40.4	38.8	38.8	38.8
75°	46.9	40.4	32.3	24.3	21.0	19.4	19.4	21.0	19.4	17.8	16.2
77.5°	14.6	12.9	12.9	12.9	11.3	9.7	8.1	8.1	6.5	4.9	4.9
80°	8.1	8.1	8.1	8.1	6.5	6.5	4.9	3.2	1.6	1.6	0.0
82.5°	8.1	8.1	8.1	6.5	6.5	6.5	4.9	3.2	1.6	0.0	0.0
85°	6.5	6.5	6.5	6.5	6.5	6.5	4.9	3.2	1.6	0.0	0.0
87.5°	6.5	6.5	6.5	6.5	6.5	6.5	4.9	3.2	1.6	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)