

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: P639837

Luminaire Tested: GWS-SA5C-760-U-AFL-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639837
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-SA5C-760-U-AFL-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (80) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18093.8 lumens
Efficiency: N/A
Efficacy: 114.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

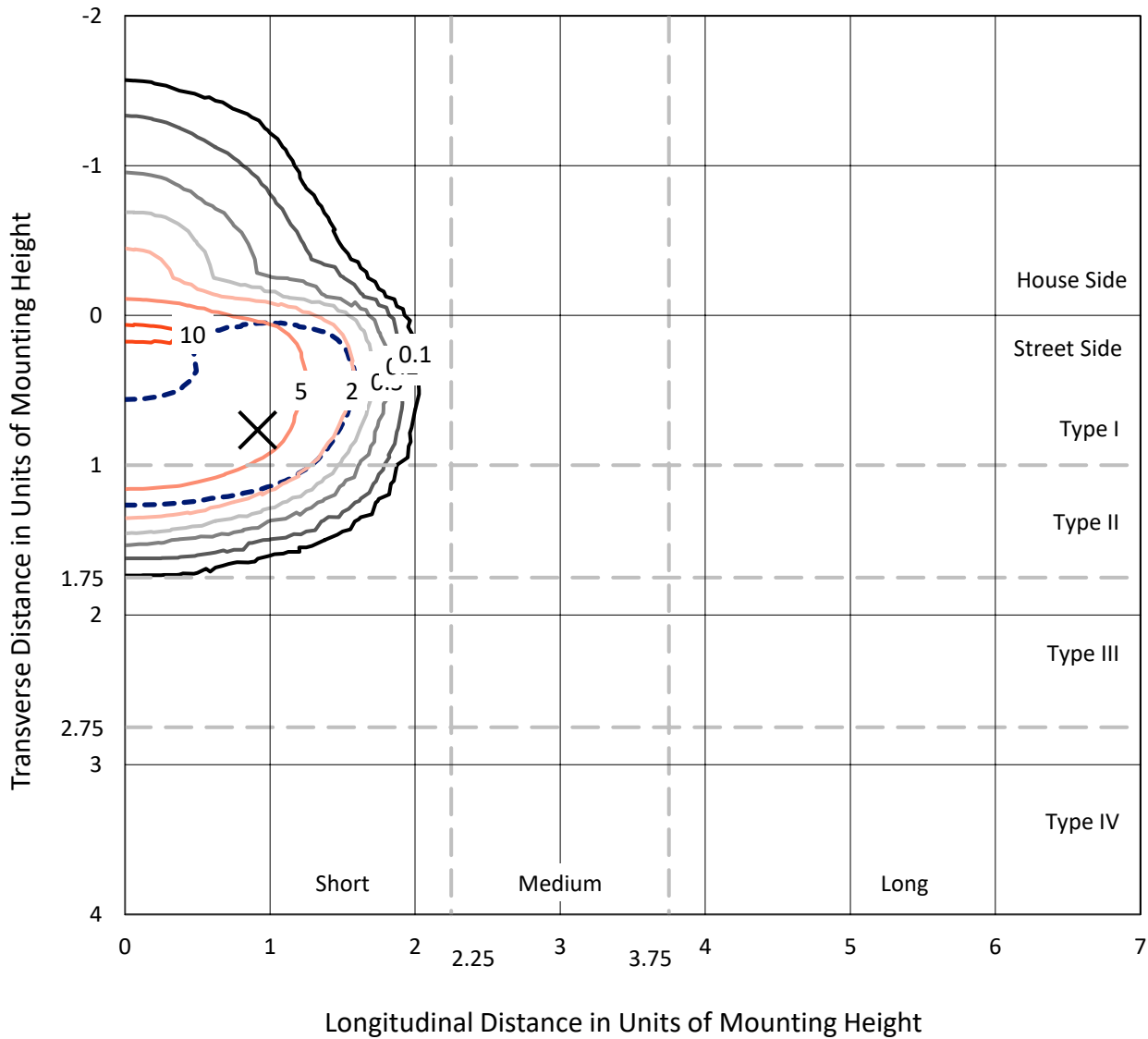
Input Watts (W): 157.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

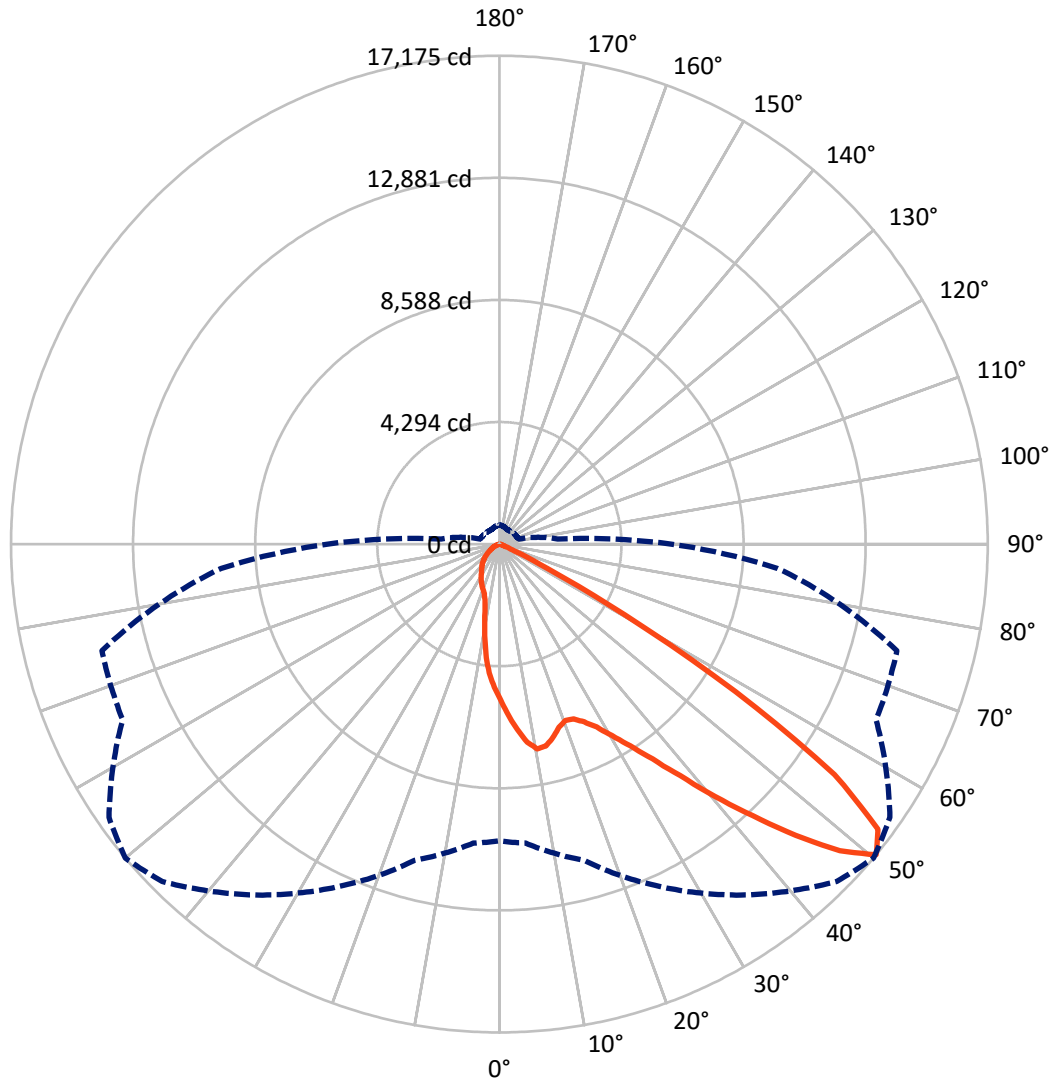
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.2 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	2324.8	0.0	2324.8
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	15769.0	0.0	15769.0
	% Fixture	87.2	0.0	87.2
Total	Lumens	18093.8	0.0	18093.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	508.5	2.8
10°-20°	1312.0	7.3
20°-30°	2165.3	12.0
30°-40°	3573.1	19.7
40°-50°	5653.5	31.2
50°-60°	4280.4	23.7
60°-70°	535.7	3.0
70°-80°	60.6	0.3
80°-90°	4.6	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°	18093.8	100.0
0°-180°	18093.8	100.0

Coefficient of Utilization



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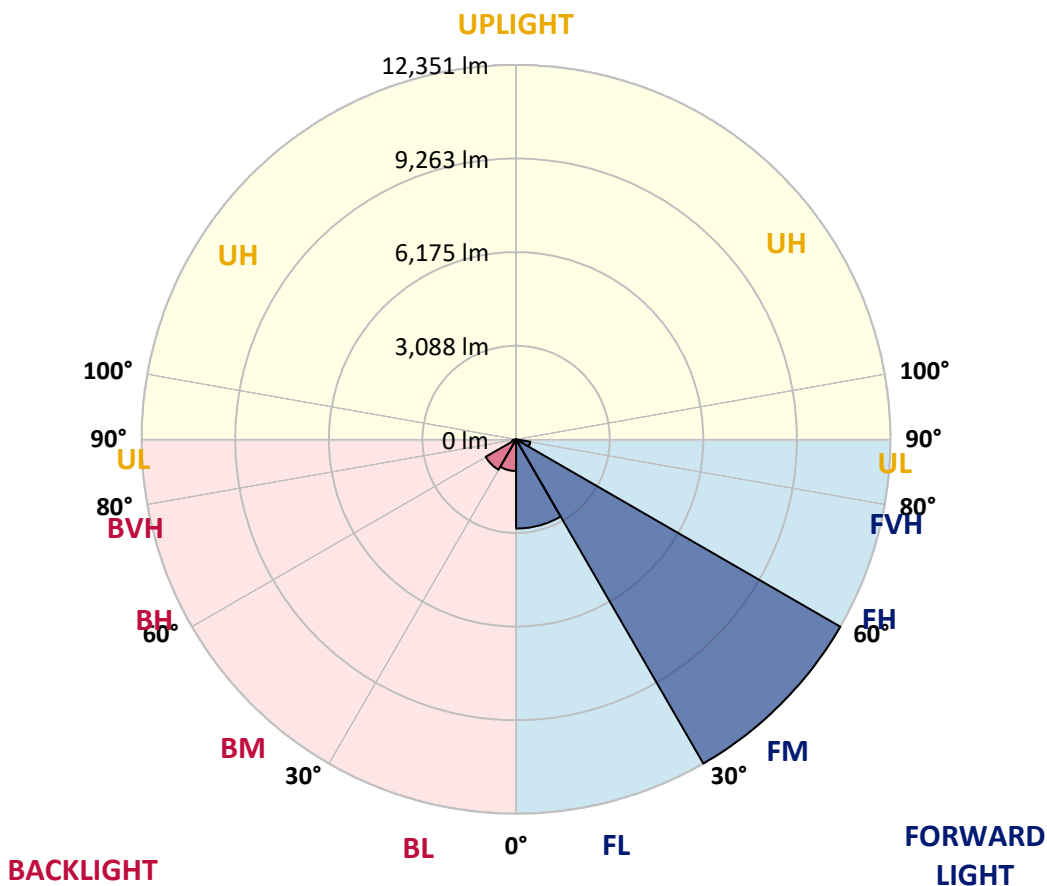
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2942.3	16.3			
FM (30°-60°)	12350.9	68.3			
FH (60°-80°)	473.6	2.6			G0/660
FVH (80°-90°)	2.2	0.0			G0/10
BL (0°-30°)	1043.5	5.8	B3/2500		
BM (30°-60°)	1156.2	6.4	B2/2500		
BH (60°-80°)	122.7	0.7	B1/500		G1/500
BVH (80°-90°)	2.5	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-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
0°	5481.7	5481.7	5481.7	5481.7	5481.7	5481.7	5481.7	5481.7	5481.7	5481.7	5481.7
2.5°	6246.4	6296.3	6282.5	6217.1	6146.5	6096.5	6019.0	5994.9	5819.2	5697.0	5567.8
5°	7000.7	7016.2	6998.9	6919.7	6795.7	6676.9	6549.5	6475.4	6180.9	5915.7	5645.3
7.5°	7181.5	7162.6	7195.3	7234.9	7217.7	7166.0	7031.7	6950.7	6599.4	6167.1	5757.3
10°	6616.6	6573.6	6695.8	6900.8	7116.1	7358.9	7324.4	7331.3	7007.6	6484.0	5903.6
12.5°	5867.5	5850.2	5941.5	6179.2	6601.1	7152.2	7284.8	7507.0	7381.3	6826.7	6070.7
15°	5538.5	5547.1	5602.3	5752.1	6055.2	6740.6	7059.2	7460.5	7715.4	7159.1	6255.0
17.5°	5588.5	5619.5	5617.8	5667.7	5852.0	6401.3	6773.3	7314.1	7973.7	7541.4	6466.8
20°	5927.7	5958.7	5912.2	5874.4	5936.4	6315.2	6623.5	7166.0	8147.6	7927.2	6690.7
22.5°	6435.8	6472.0	6361.7	6253.2	6213.6	6456.5	6680.3	7105.7	8280.2	8280.2	6890.4
25°	7050.6	7100.6	6930.1	6737.2	6627.0	6754.4	6923.2	7241.8	8416.3	8597.1	7026.5
27.5°	7737.8	7739.5	7593.1	7376.1	7169.4	7184.9	7286.5	7548.3	8566.1	8938.1	7133.3
30°	8511.0	8516.2	8321.6	8061.5	7801.5	7730.9	7817.0	8015.0	8877.8	9366.9	7281.4
32.5°	9509.9	9534.0	9255.0	8872.7	8535.1	8402.5	8452.5	8660.8	9373.8	9904.3	7503.5
35°	10860.1	10885.9	10474.3	9969.7	9432.4	9232.6	9282.6	9492.7	10092.0	10667.2	7858.3
37.5°	12193.0	12227.5	11810.7	11340.6	10603.5	10272.8	10324.5	10524.2	11170.1	11721.2	8426.6
40°	13114.4	13160.9	13031.7	12714.9	12031.2	11597.2	11659.2	11731.5	12356.6	12981.8	9163.7
42.5°	13600.1	13665.5	13720.6	13882.5	13522.6	13159.2	13054.1	13059.3	13563.9	14266.5	9930.1
45°	13629.3	13693.1	13975.5	14600.7	14874.5	14798.7	14607.5	14478.4	14485.3	15122.5	10408.9
47.5°	12682.1	12801.0	13329.7	14554.2	15584.0	16212.6	16116.2	15809.6	14872.8	15179.3	10357.2
50°	10438.1	10555.2	11516.2	13278.0	15067.4	16777.5	17175.3	16763.7	14619.6	14471.5	9825.0
52.5°	7581.0	7593.1	8216.5	10274.5	12973.2	15735.6	16672.4	16632.8	14233.8	13613.8	9098.3
55°	3601.1	3558.0	4259.0	5798.6	8972.6	12726.9	14306.2	14753.9	13686.2	12993.9	8535.1
57.5°	1048.8	1069.5	1381.2	2262.9	4488.0	8133.9	9797.5	10631.0	11233.8	10682.7	6620.1
60°	470.2	471.9	525.3	688.9	1494.9	3783.6	5064.9	6096.5	6716.5	6224.0	3284.2
62.5°	341.0	342.7	363.4	389.2	508.0	1281.3	1899.6	2531.6	2578.1	1687.7	831.8
65°	284.2	284.2	287.6	287.6	304.8	458.1	576.9	744.0	626.9	465.0	325.5
67.5°	229.1	230.8	234.2	234.2	229.1	229.1	248.0	272.1	291.0	359.9	299.7
70°	179.1	177.4	177.4	179.1	173.9	148.1	160.2	182.6	199.8	280.7	260.0
72.5°	139.5	141.2	139.5	132.6	120.6	87.8	94.7	118.8	127.4	175.7	175.7
75°	105.1	106.8	99.9	75.8	49.9	27.6	36.2	58.6	74.1	86.1	63.7
77.5°	13.8	13.8	10.3	10.3	8.6	10.3	10.3	13.8	20.7	20.7	15.5
80°	1.7	1.7	1.7	3.4	5.2	6.9	6.9	6.9	6.9	8.6	8.6
82.5°	1.7	1.7	1.7	1.7	5.2	5.2	6.9	6.9	6.9	6.9	6.9
85°	0.0	0.0	0.0	1.7	3.4	5.2	5.2	6.9	6.9	6.9	6.9
87.5°	0.0	0.0	0.0	1.7	3.4	5.2	5.2	5.2	6.9	6.9	6.9
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°	5481.7	5481.7	5481.7	5481.7	5481.7	5481.7	5481.7	5481.7	5481.7	5481.7	5481.7
2.5°	5490.3	5390.4	5269.9	5187.2	5070.1	4992.6	4882.4	4808.3	4744.6	4694.7	4722.2
5°	5492.0	5333.6	5087.3	4877.2	4648.2	4438.1	4212.5	4035.1	3874.9	3802.6	3842.2
7.5°	5526.5	5299.2	4922.0	4548.3	4109.1	3675.1	3268.7	2938.0	2774.4	2696.9	2721.0
10°	5593.6	5283.7	4737.7	4117.7	3404.8	2812.3	2417.9	2194.1	2102.8	2054.6	2063.2
12.5°	5655.6	5273.3	4498.3	3551.1	2686.6	2182.0	1977.1	1946.1	1965.0	1966.7	1965.0
15°	5740.0	5254.4	4202.1	2969.0	2149.3	1885.8	1891.0	1935.7	1980.5	1994.3	1990.8
17.5°	5829.6	5225.1	3819.8	2411.1	1823.8	1799.7	1860.0	1920.2	1965.0	1971.9	1973.6
20°	5922.6	5164.8	3384.1	1968.5	1672.2	1734.2	1801.4	1846.2	1878.9	1889.2	1892.7
22.5°	5965.6	5037.4	2881.2	1651.6	1570.6	1653.3	1703.2	1761.8	1772.1	1734.2	1741.1
25°	5943.2	4822.1	2390.4	1438.0	1469.0	1551.7	1625.7	1596.5	1553.4	1525.9	1534.5
27.5°	5872.6	4536.2	1909.9	1281.3	1360.5	1465.6	1474.2	1441.5	1434.6	1412.2	1419.1
30°	5796.9	4207.3	1536.2	1155.6	1250.3	1360.5	1334.7	1346.7	1348.5	1322.6	1331.2
32.5°	5750.4	3862.9	1222.7	1071.2	1179.7	1200.4	1252.0	1276.1	1277.9	1217.6	1227.9
35°	5765.9	3523.6	1035.0	1002.3	1114.3	1109.1	1181.4	1195.2	1095.3	1012.6	1021.3
37.5°	5891.6	3210.1	928.3	948.9	1000.6	1040.2	1095.3	1004.0	981.6	943.8	948.9
40°	6125.8	2943.2	864.5	916.2	923.1	986.8	902.4	914.5	916.2	892.1	897.3
42.5°	6399.6	2721.0	826.6	897.3	880.0	890.4	806.0	830.1	855.9	845.6	847.3
45°	6537.4	2504.1	793.9	831.8	837.0	738.8	719.9	745.7	778.4	783.6	785.3
47.5°	6415.1	2297.4	759.5	737.1	771.5	673.4	651.0	659.6	697.5	718.1	721.6
50°	6041.4	2059.7	707.8	652.7	633.8	604.5	583.8	585.5	628.6	664.8	671.7
52.5°	5516.1	1811.7	623.4	552.8	509.8	532.2	537.3	527.0	566.6	602.8	609.7
55°	5006.4	1501.7	494.3	449.5	409.9	458.1	471.9	458.1	470.2	494.3	496.0
57.5°	3525.3	849.0	378.9	372.0	339.3	392.7	415.0	394.4	373.7	389.2	392.7
60°	1634.3	444.3	291.0	291.0	282.4	337.5	375.4	346.2	306.5	313.4	318.6
62.5°	511.5	280.7	213.6	201.5	230.8	287.6	318.6	289.3	242.8	242.8	249.7
65°	289.3	241.1	168.8	155.0	187.7	230.8	249.7	218.7	177.4	173.9	173.9
67.5°	268.7	229.1	149.8	125.7	132.6	148.1	155.0	134.3	122.3	120.6	122.3
70°	222.2	191.2	120.6	86.1	80.9	79.2	82.7	77.5	74.1	75.8	80.9
72.5°	137.8	115.4	75.8	51.7	44.8	43.1	43.1	43.1	41.3	41.3	41.3
75°	49.9	43.1	34.4	25.8	22.4	20.7	20.7	22.4	20.7	18.9	17.2
77.5°	15.5	13.8	13.8	13.8	12.1	10.3	8.6	8.6	6.9	5.2	5.2
80°	8.6	8.6	8.6	8.6	6.9	6.9	5.2	3.4	1.7	1.7	0.0
82.5°	8.6	8.6	8.6	6.9	6.9	6.9	5.2	3.4	1.7	0.0	0.0
85°	6.9	6.9	6.9	6.9	6.9	6.9	5.2	3.4	1.7	0.0	0.0
87.5°	6.9	6.9	6.9	6.9	6.9	6.9	5.2	3.4	1.7	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)