

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: P643945

Luminaire Tested: GWS-SA6F-830-U-T3R-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P643945
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-SA6F-830-U-T3R-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY 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: 24797.1 lumens
Efficiency: N/A
Efficacy: 66.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

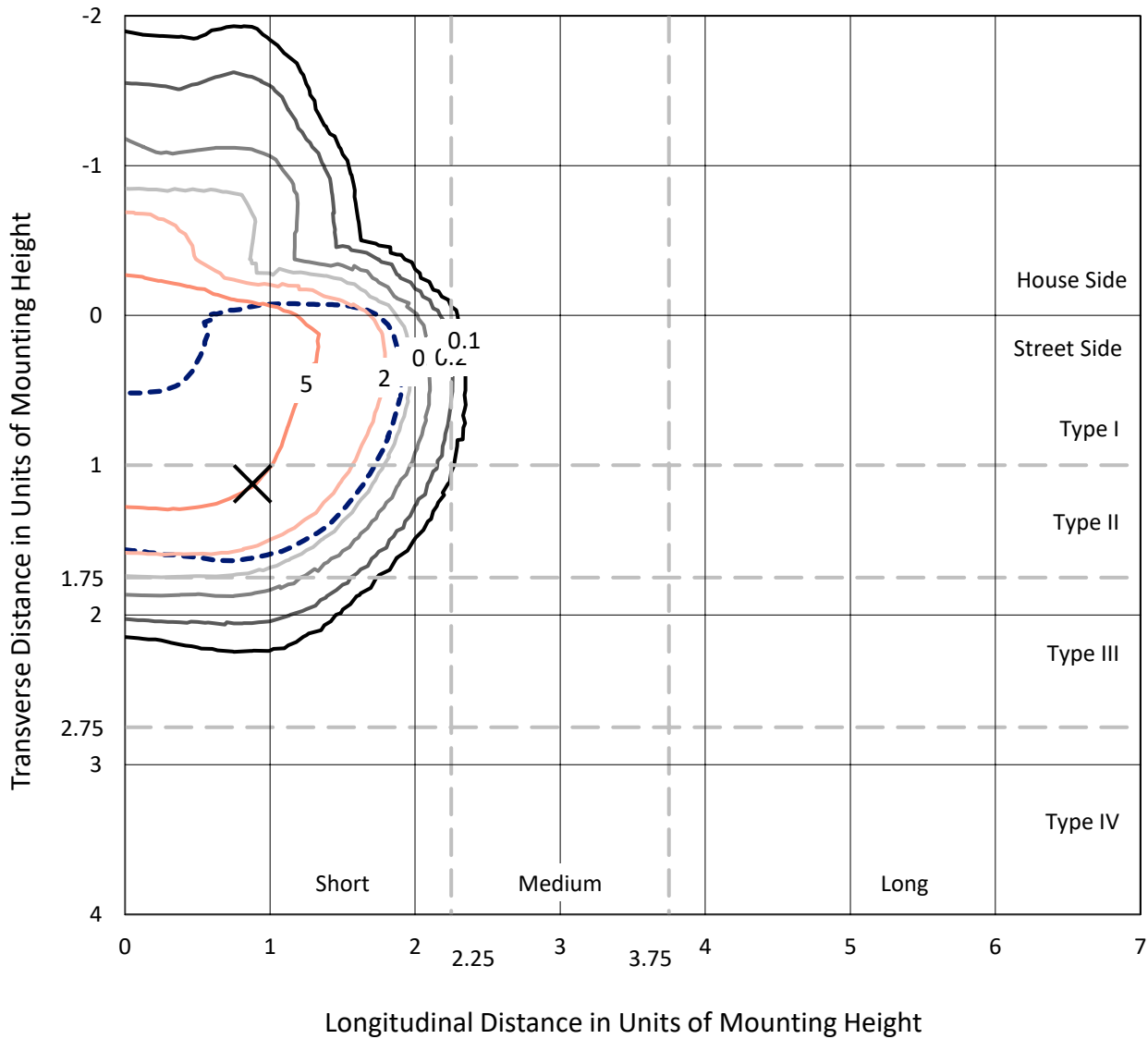
Input Watts (W): 372.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

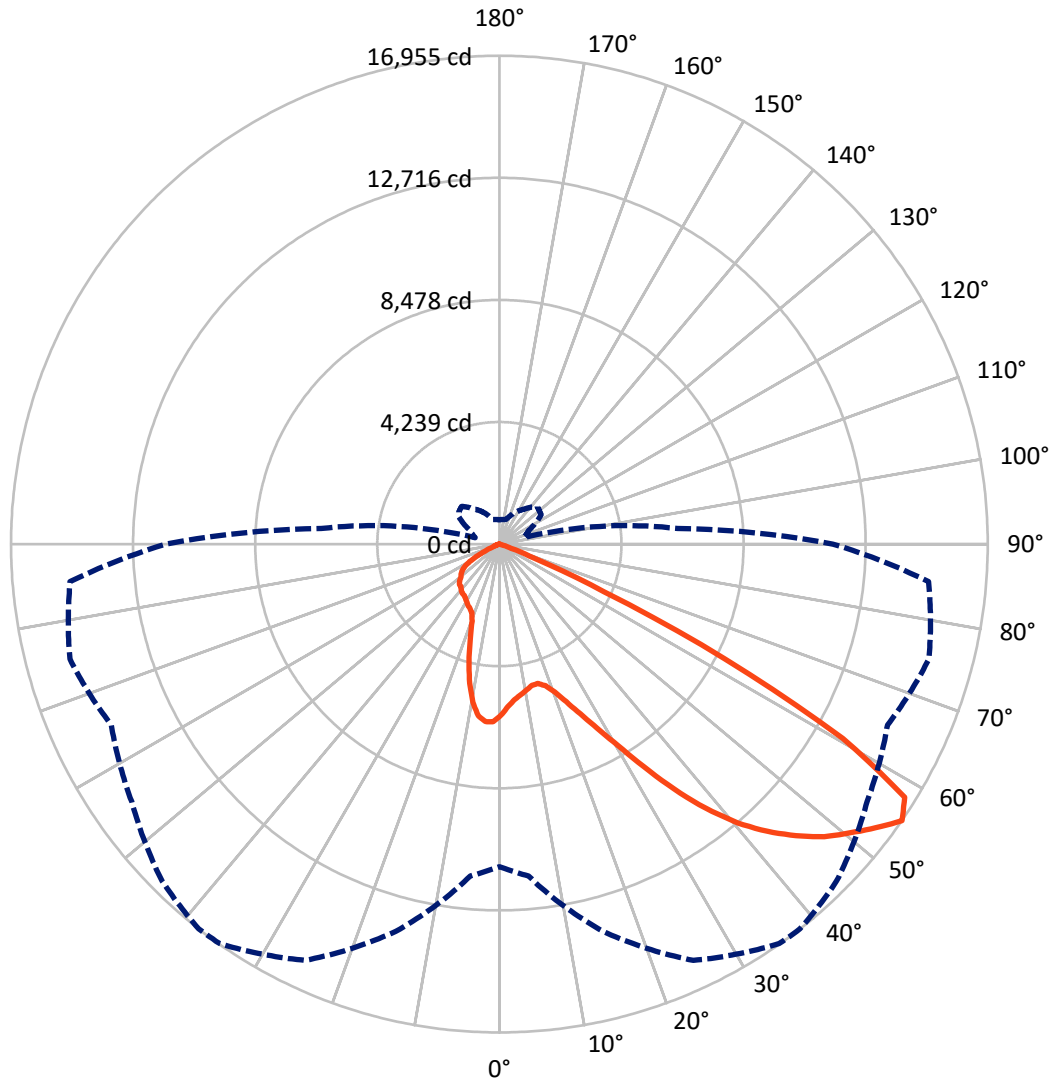
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.9 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	4831.2	0.0	4831.2
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	19965.9	0.0	19965.9
	% Fixture	80.5	0.0	80.5
Total	Lumens	24797.1	0.0	24797.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	549.8	2.2
10°-20°	1480.2	6.0
20°-30°	2540.1	10.2
30°-40°	4213.0	17.0
40°-50°	6193.3	25.0
50°-60°	7237.1	29.2
60°-70°	2453.1	9.9
70°-80°	125.4	0.5
80°-90°	4.9	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°	24797.1	100.0
0°-180°	24797.1	100.0

Coefficient of Utilization



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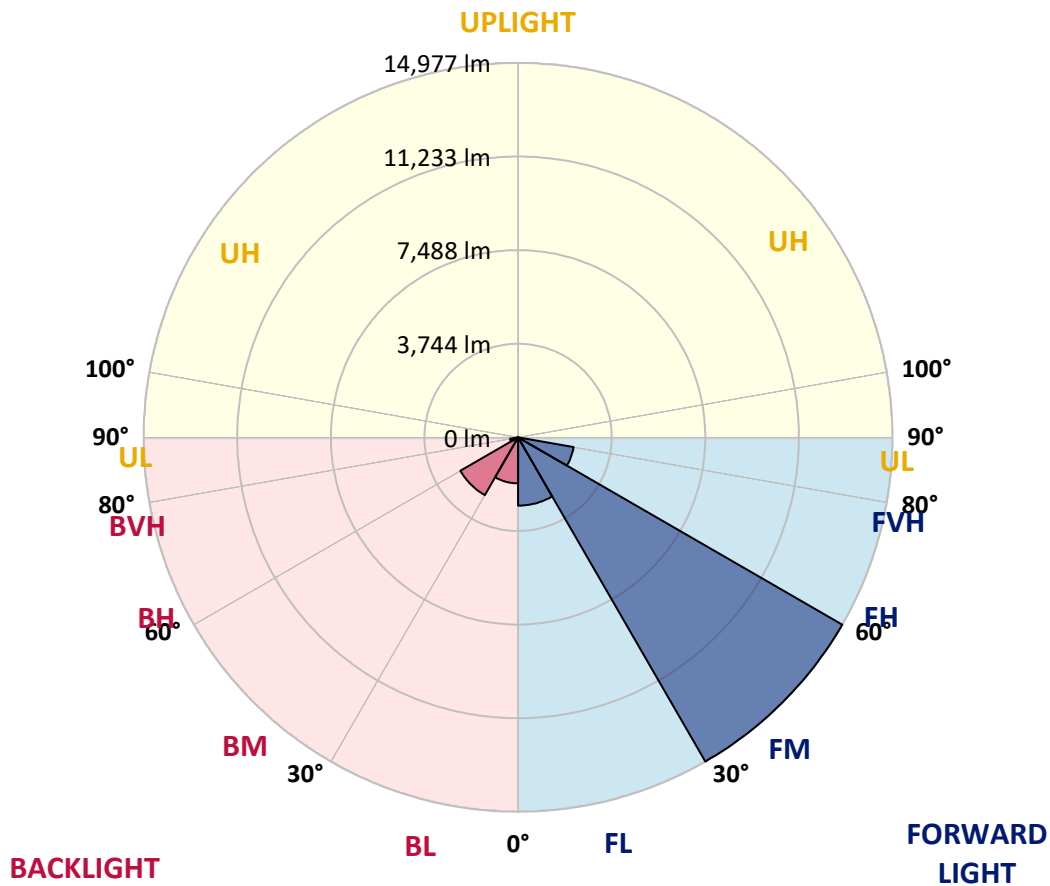
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2729.6	11.0			
FM (30°-60°)	14976.8	60.4			
FH (60°-80°)	2256.9	9.1			G2/5000
FVH (80°-90°)	2.6	0.0			G0/10
BL (0°-30°)	1840.7	7.4	B3/2500		
BM (30°-60°)	2666.6	10.8	B3/5000		
BH (60°-80°)	321.6	1.3	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: 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°	5946.5	5946.5	5946.5	5946.5	5946.5	5946.5	5946.5	5946.5	5946.5	5946.5	5946.5
2.5°	5538.4	5527.0	5549.7	5595.1	5637.6	5651.8	5694.3	5753.8	5790.6	5878.5	5949.4
5°	5289.0	5283.3	5306.0	5345.6	5402.3	5422.2	5487.4	5586.6	5685.8	5838.8	5989.1
7.5°	5062.2	5059.4	5093.4	5181.3	5263.4	5289.0	5368.3	5490.2	5623.4	5858.7	6079.8
10°	4764.6	4767.4	4832.6	4957.3	5107.6	5158.6	5286.1	5461.9	5634.8	5938.0	6244.1
12.5°	4668.2	4673.9	4707.9	4804.3	4968.7	5033.9	5212.4	5478.9	5699.9	6051.4	6456.7
15°	4903.5	4903.5	4875.1	4886.5	4960.2	5019.7	5206.8	5535.5	5810.5	6187.5	6666.5
17.5°	5359.8	5342.8	5272.0	5175.6	5150.1	5169.9	5320.1	5657.4	5966.4	6346.2	6904.6
20°	5977.7	5983.4	5844.5	5643.3	5481.7	5478.9	5569.6	5872.8	6190.3	6536.1	7162.5
22.5°	6726.0	6703.3	6519.1	6244.1	5963.5	5940.9	5977.7	6201.6	6513.4	6836.5	7479.9
25°	7593.3	7582.0	7321.2	6952.7	6581.4	6527.6	6527.6	6748.7	6975.4	7264.5	7859.7
27.5°	8500.3	8500.3	8248.1	7822.9	7329.7	7233.3	7219.2	7479.9	7630.2	7686.8	8180.0
30°	9432.8	9421.5	9172.1	8735.6	8208.4	8109.2	8069.5	8262.2	8369.9	8199.9	8579.7
32.5°	10379.5	10399.3	10147.1	9741.8	9271.3	9206.1	9084.2	9084.2	9172.1	8934.0	9208.9
35°	11397.1	11391.4	11193.0	10918.0	10515.6	10441.9	10240.6	9926.0	10059.2	9954.4	10079.1
37.5°	12295.6	12338.1	12241.7	12037.6	11711.7	11638.0	11306.4	10736.6	10838.7	11003.1	11113.6
40°	13208.2	13242.2	13338.6	13273.4	12862.4	12726.4	12136.8	11201.5	11314.9	11878.9	12196.3
42.5°	14103.9	14120.9	14316.5	14424.2	13874.3	13636.2	12766.1	11484.9	11604.0	12564.8	13120.4
45°	14673.6	14710.4	15033.6	15362.4	14767.1	14441.2	13313.1	11847.7	11898.7	13041.0	13803.4
47.5°	14650.9	14736.0	15342.5	15940.6	15535.3	15183.8	13970.7	12428.8	12343.7	13488.8	14254.1
50°	14194.6	14296.6	15166.8	16116.3	16088.0	15762.0	14701.9	13270.6	13004.1	13885.6	14310.8
52.5°	13247.9	13542.7	14857.8	16139.0	16533.0	16368.6	15606.1	14404.3	13897.0	14455.4	14401.5
55°	11201.5	11564.3	13919.7	15946.2	16935.4	16955.3	16555.6	15586.3	14866.3	15436.0	14959.9
57.5°	8503.1	8792.3	10714.0	14194.6	16269.4	16595.3	16924.1	16209.8	15464.4	16105.0	15090.3
60°	5124.6	5459.0	6709.0	10416.4	13140.2	13695.7	14985.4	14846.5	13948.0	14222.9	12374.9
62.5°	2077.6	2253.3	3098.0	5739.6	8270.7	8789.4	10025.2	10235.0	10013.9	9733.3	7505.4
65°	759.6	830.5	1241.5	2372.4	3803.7	3993.6	4645.6	5016.9	5323.0	4532.2	2791.9
67.5°	470.5	515.9	807.8	1218.8	1383.2	1286.8	1309.5	1561.7	1490.9	921.2	498.9
70°	348.6	385.5	632.1	844.6	558.4	430.8	291.9	311.8	280.6	246.6	243.8
72.5°	240.9	274.9	473.3	498.9	215.4	153.1	107.7	150.2	170.1	167.2	172.9
75°	158.7	184.2	297.6	195.6	53.9	42.5	36.8	79.4	102.0	102.0	104.9
77.5°	93.5	107.7	104.9	39.7	11.3	11.3	8.5	14.2	22.7	25.5	31.2
80°	11.3	8.5	5.7	5.7	5.7	5.7	5.7	5.7	8.5	8.5	8.5
82.5°	2.8	2.8	2.8	5.7	5.7	5.7	5.7	5.7	5.7	8.5	8.5
85°	0.0	0.0	2.8	2.8	5.7	5.7	5.7	5.7	5.7	8.5	8.5
87.5°	0.0	0.0	2.8	2.8	5.7	5.7	5.7	5.7	5.7	8.5	8.5
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°	5946.5	5946.5	5946.5	5946.5	5946.5	5946.5	5946.5	5946.5	5946.5	5946.5	5946.5
2.5°	6003.2	5983.4	6065.6	6125.1	6173.3	6196.0	6164.8	6161.9	6161.9	6099.6	6082.6
5°	6074.1	6082.6	6198.8	6249.8	6258.3	6230.0	6159.1	6110.9	6082.6	6017.4	5980.5
7.5°	6210.1	6238.5	6349.0	6340.5	6264.0	6133.6	5946.5	5802.0	5708.4	5606.4	5544.1
10°	6405.7	6459.6	6527.6	6408.5	6164.8	5833.2	5447.7	5172.7	5008.4	4892.1	4821.3
12.5°	6643.8	6697.6	6675.0	6394.4	5887.0	5294.6	4798.6	4401.8	4211.9	4107.0	4033.3
15°	6884.7	6918.7	6771.3	6224.3	5396.7	4600.2	4047.5	3653.5	3421.1	3336.1	3273.7
17.5°	7131.3	7122.8	6788.3	5889.8	4741.9	3817.9	3273.7	3004.4	2939.3	2925.1	2919.4
20°	7389.2	7312.7	6720.3	5410.8	3954.0	3044.1	2735.2	2752.2	2871.2	2927.9	2939.3
22.5°	7684.0	7491.3	6550.3	4761.8	3149.0	2536.8	2568.0	2735.2	2896.7	2973.3	2984.6
25°	7998.6	7655.7	6266.8	3928.5	2482.9	2332.7	2516.9	2709.7	2882.6	2976.1	2987.4
27.5°	8205.5	7695.3	5802.0	3089.5	2131.5	2253.3	2448.9	2633.1	2811.7	2913.7	2927.9
30°	8429.5	7678.3	5169.9	2380.9	2012.4	2185.3	2355.4	2522.6	2687.0	2800.4	2811.7
32.5°	8758.2	7667.0	4399.0	1933.0	1964.2	2131.5	2256.2	2395.1	2508.4	2573.6	2565.1
35°	9189.1	7652.8	3500.5	1743.1	1935.9	2088.9	2188.1	2253.3	2128.6	2088.9	2097.4
37.5°	9741.8	7686.8	2743.7	1663.8	1927.4	2077.6	2162.6	1975.6	1782.8	1709.1	1697.8
40°	10354.0	7774.7	2091.8	1632.6	1955.7	2105.9	2066.3	1757.3	1519.2	1374.7	1343.5
42.5°	10969.1	7871.1	1655.3	1621.3	2003.9	2185.3	1907.5	1598.6	1241.5	1159.3	1147.9
45°	11425.4	7854.1	1431.4	1601.4	2046.4	2230.7	1865.0	1371.8	1108.2	1071.4	1074.2
47.5°	11655.0	7667.0	1309.5	1556.1	2063.4	2185.3	1760.2	1278.3	1017.5	1057.2	1091.2
50°	11533.1	7182.3	1196.1	1468.2	2026.6	2125.8	1592.9	1207.4	972.2	1136.6	1213.1
52.5°	11385.7	6587.1	1071.4	1332.2	1938.7	2043.6	1527.7	1187.6	943.8	1096.9	1153.6
55°	11581.3	6210.1	867.3	1122.4	1765.8	1850.9	1476.7	1184.8	878.7	853.1	844.6
57.5°	11306.4	5459.0	620.7	807.8	1354.8	1465.4	1439.9	1164.9	779.5	776.6	788.0
60°	8738.4	3330.4	425.2	513.0	830.5	935.3	1306.7	1113.9	671.7	617.9	620.7
62.5°	4965.8	1417.2	291.9	317.5	425.2	504.5	997.7	1011.9	620.7	589.6	620.7
65°	1729.0	507.4	226.8	212.6	235.3	269.3	572.5	782.3	564.0	510.2	515.9
67.5°	357.1	252.3	201.2	175.7	175.7	175.7	291.9	487.5	464.8	405.3	411.0
70°	226.8	215.4	175.7	150.2	144.6	133.2	167.2	269.3	320.3	294.8	297.6
72.5°	167.2	164.4	138.9	121.9	107.7	96.4	104.9	133.2	164.4	170.1	172.9
75°	102.0	104.9	90.7	76.5	68.0	59.5	62.4	62.4	62.4	56.7	62.4
77.5°	31.2	34.0	28.3	22.7	19.8	19.8	19.8	17.0	14.2	8.5	8.5
80°	8.5	8.5	8.5	8.5	8.5	5.7	5.7	2.8	2.8	0.0	0.0
82.5°	8.5	8.5	8.5	8.5	5.7	5.7	2.8	2.8	0.0	0.0	0.0
85°	8.5	8.5	8.5	8.5	5.7	5.7	2.8	2.8	0.0	0.0	0.0
87.5°	8.5	8.5	8.5	8.5	5.7	5.7	2.8	2.8	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)