

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: P640180

Luminaire Tested: GWS-SA5D-735-U-SL3-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640180
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-34)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5D-735-U-SL3-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: (80) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23997.3 lumens
Efficiency: N/A
Efficacy: 117.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

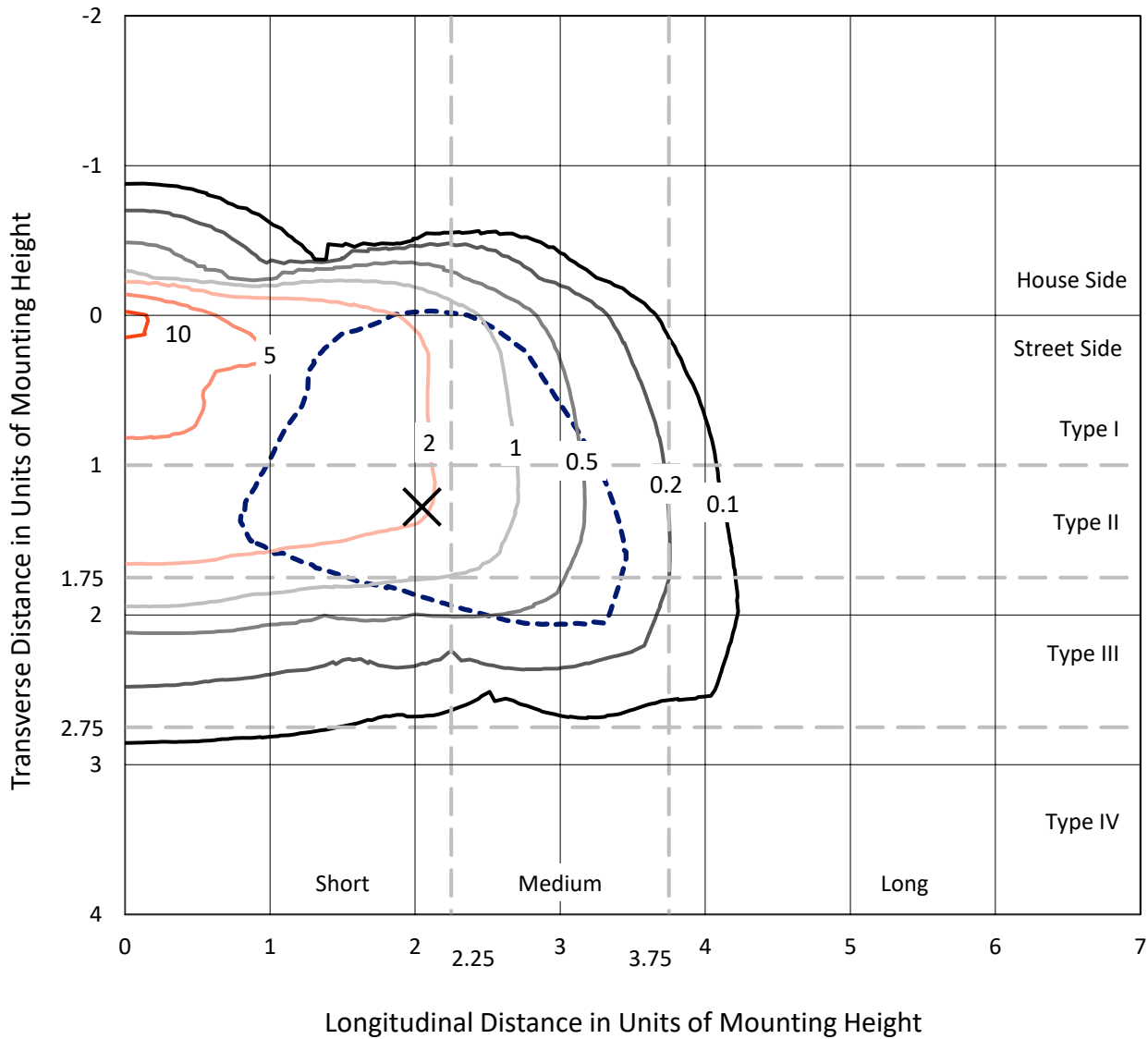
Input Watts (W): 204.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

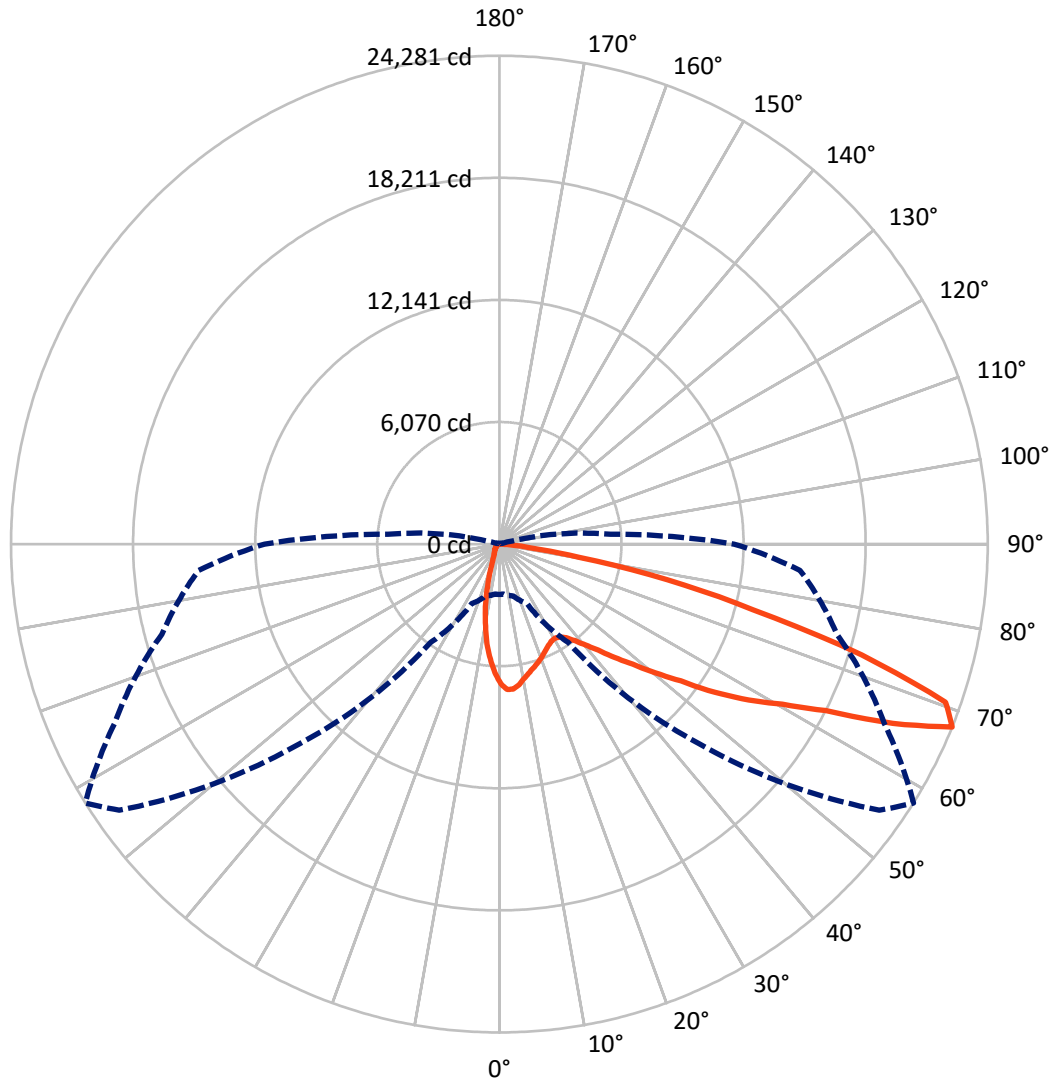
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2344.4	0.0	2344.4
	% Fixture	9.8	0.0	9.8
Street Side	Lumens	21652.9	0.0	21652.9
	% Fixture	90.2	0.0	90.2
Total	Lumens	23997.3	0.0	23997.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	562.5	2.3
10°-20°	1170.9	4.9
20°-30°	1579.0	6.6
30°-40°	2218.8	9.2
40°-50°	3426.7	14.3
50°-60°	5479.8	22.8
60°-70°	6488.5	27.0
70°-80°	2870.4	12.0
80°-90°	200.7	0.8
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°	23997.3	100.0
0°-180°	23997.3	100.0

Coefficient of Utilization



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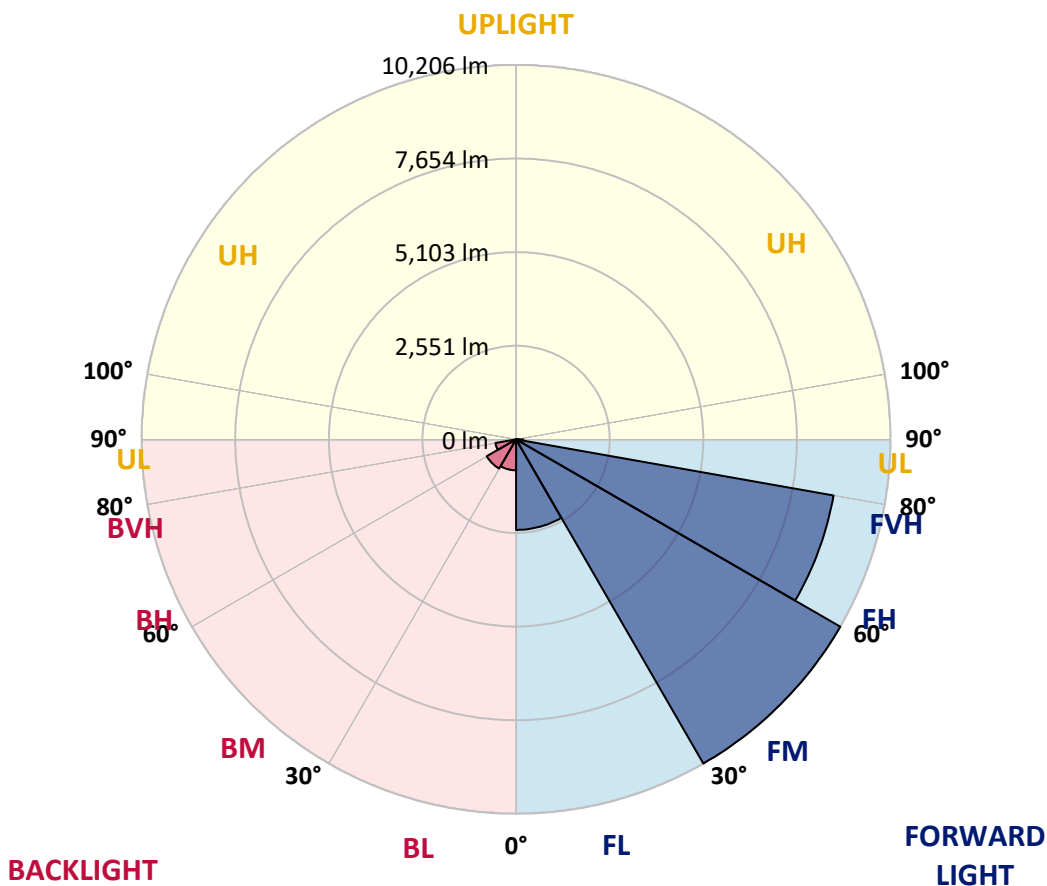
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2468.7	10.3			
FM (30°-60°)	10205.5	42.5			
FH (60°-80°)	8786.5	36.6			G4/12000
FVH (80°-90°)	192.1	0.8			G2/225
BL (0°-30°)	843.6	3.5	B2/1000		
BM (30°-60°)	919.9	3.8	B1/1000		
BH (60°-80°)	572.3	2.4	B2/1000		G2/1000
BVH (80°-90°)	8.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	6921.9	6921.9	6921.9	6921.9	6921.9	6921.9	6921.9	6921.9	6921.9	6921.9	6921.9
2.5°	7280.9	7293.6	7310.6	7331.9	7327.6	7308.5	7285.1	7232.0	7198.1	7091.9	6962.3
5°	7047.3	7045.1	7087.6	7128.0	7200.2	7238.4	7291.5	7242.7	7225.7	7098.2	6888.0
7.5°	6590.6	6614.0	6662.8	6726.5	6830.6	6943.2	7070.6	7055.8	7106.7	7021.8	6760.5
10°	6142.5	6129.7	6206.2	6301.8	6461.1	6605.5	6790.3	6788.1	6921.9	6913.5	6616.1
12.5°	5749.5	5747.4	5806.9	5915.2	6102.1	6303.9	6554.5	6560.9	6726.5	6794.5	6492.9
15°	5418.2	5422.4	5479.8	5592.4	5785.6	6032.0	6323.0	6376.1	6563.0	6701.1	6371.8
17.5°	5182.4	5184.6	5218.5	5316.2	5505.3	5768.6	6119.1	6191.3	6431.3	6631.0	6274.1
20°	5074.1	5065.6	5072.0	5120.8	5267.4	5507.4	5910.9	6004.4	6310.3	6582.1	6184.9
22.5°	5089.0	5076.2	5046.5	5040.1	5106.0	5288.6	5690.1	5804.8	6178.6	6552.4	6104.2
25°	5220.7	5193.1	5150.6	5086.9	5061.4	5152.7	5496.8	5615.7	6055.4	6554.5	6042.6
27.5°	5422.4	5392.7	5339.6	5254.6	5154.8	5116.6	5365.1	5477.7	5968.3	6603.4	6012.9
30°	5679.4	5656.1	5605.1	5503.2	5369.3	5212.2	5337.5	5430.9	5925.8	6703.2	6025.6
32.5°	5983.2	5966.2	5923.7	5830.2	5677.3	5437.3	5430.9	5503.2	5959.8	6847.6	6074.5
35°	6276.3	6282.6	6284.8	6233.8	6070.2	5779.3	5687.9	5713.4	6100.0	7064.3	6184.9
37.5°	6592.7	6577.9	6654.3	6690.4	6533.3	6223.2	6085.1	6087.2	6367.6	7385.0	6393.1
40°	6832.7	6837.0	7002.7	7151.3	7085.5	6786.0	6588.5	6586.4	6779.6	7824.6	6728.7
42.5°	7057.9	7085.5	7329.7	7584.6	7675.9	7410.5	7268.2	7215.1	7357.4	8419.3	7232.0
45°	7297.9	7338.2	7680.2	8043.4	8283.4	8126.2	8013.7	8034.9	8051.9	9111.7	7909.6
47.5°	7578.2	7603.7	8026.4	8538.3	8986.4	8946.1	8952.4	8927.0	8918.5	9984.7	8805.9
50°	7918.1	7977.5	8463.9	9075.6	9687.3	9954.9	10044.2	10054.8	9916.7	10936.2	9734.1
52.5°	8640.2	8712.4	9128.7	9664.0	10451.9	11014.8	11378.0	11305.8	11093.4	11858.0	10751.4
55°	9491.9	9547.1	9948.6	10502.9	11386.5	12176.6	13038.9	13009.2	12488.8	12828.6	11588.3
57.5°	9572.6	9634.2	10256.5	11106.1	12586.5	13612.4	14519.3	14614.9	13852.4	13516.8	12335.9
60°	8665.7	8791.0	9640.6	10783.3	13045.3	15543.1	16142.0	16161.1	14852.8	14215.6	13249.2
62.5°	6945.3	7004.8	7860.7	9351.7	12338.0	16668.7	18620.7	18217.1	16137.8	15296.7	14695.6
65°	3640.4	3882.6	4628.1	6278.4	10005.9	16275.8	21602.7	21492.2	18448.6	16845.0	15821.3
67.5°	2497.8	2495.6	2671.9	3273.0	5966.2	14013.8	23066.1	24281.0	21120.5	17376.0	15005.7
70°	1900.9	1907.3	2064.5	2455.3	3090.3	9328.4	21460.4	23537.6	21617.5	15776.7	12136.2
72.5°	1261.6	1274.4	1535.6	1983.8	2468.0	4572.9	16677.2	18833.0	18189.5	12671.5	8542.5
75°	754.0	764.6	951.5	1442.2	2194.0	2559.4	10596.4	13019.8	12520.7	8733.7	4579.2
77.5°	310.1	318.6	488.5	898.4	1605.7	1988.0	5860.0	8519.2	7499.7	3472.7	1251.0
80°	129.6	133.8	235.8	628.7	1157.6	1246.8	2714.4	4003.6	3073.4	747.6	382.3
82.5°	46.7	48.9	87.1	346.2	720.0	938.8	1369.9	1582.3	866.6	244.3	206.0
85°	2.1	2.1	21.2	116.8	274.0	265.5	783.7	758.2	286.7	101.9	123.2
87.5°	0.0	0.0	2.1	2.1	4.2	10.6	74.3	131.7	61.6	25.5	53.1
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°	6921.9	6921.9	6921.9	6921.9	6921.9	6921.9	6921.9	6921.9	6921.9	6921.9	6921.9
2.5°	6877.3	6764.8	6641.6	6526.9	6344.2	6235.9	6102.1	6042.6	5957.7	5936.4	5949.2
5°	6737.2	6543.9	6248.7	5981.0	5634.8	5356.6	5076.2	4957.3	4804.4	4702.4	4659.9
7.5°	6539.6	6286.9	5826.0	5339.6	4863.8	4356.2	3969.7	3714.8	3483.3	3355.8	3330.4
10°	6340.0	6010.8	5350.2	4653.6	3916.6	3309.1	2786.6	2400.1	2085.7	1943.4	1833.0
12.5°	6134.0	5724.0	4866.0	3956.9	3101.0	2272.6	1626.9	1251.0	1025.9	936.7	951.5
15°	5944.9	5447.9	4386.0	3260.3	2183.4	1372.1	898.4	758.2	705.2	688.2	686.0
17.5°	5764.4	5186.7	3908.1	2582.7	1440.0	841.1	688.2	654.2	639.3	630.8	630.8
20°	5600.9	4936.1	3440.8	1945.5	930.3	666.9	622.3	605.3	592.6	586.2	586.2
22.5°	5447.9	4693.9	2984.1	1376.3	686.0	599.0	571.3	554.4	539.5	531.0	531.0
25°	5309.9	4475.2	2548.7	947.3	590.5	548.0	518.2	499.1	473.6	458.8	458.8
27.5°	5210.0	4279.8	2130.3	690.3	533.1	492.8	458.8	433.3	405.7	388.7	384.4
30°	5150.6	4114.1	1707.7	567.1	480.0	439.7	401.4	369.6	337.7	320.7	318.6
32.5°	5116.6	3961.2	1321.1	494.9	435.4	388.7	346.2	312.2	280.4	261.2	259.1
35°	5129.3	3842.2	989.8	446.0	392.9	344.1	297.4	263.4	235.8	218.8	214.5
37.5°	5239.8	3789.1	743.4	407.8	356.8	305.8	257.0	225.1	199.7	186.9	184.8
40°	5454.3	3799.7	584.1	378.1	327.1	267.6	220.9	191.2	172.0	161.4	159.3
42.5°	5787.8	3888.9	482.1	352.6	295.2	233.6	191.2	167.8	148.7	138.1	135.9
45°	6284.8	4073.7	420.5	322.8	261.2	201.8	165.7	144.4	127.4	114.7	112.6
47.5°	7004.8	4394.4	380.2	295.2	231.5	174.2	142.3	121.1	106.2	95.6	93.5
50°	7771.5	4778.9	346.2	267.6	206.0	150.8	121.1	99.8	87.1	76.5	74.3
52.5°	8589.2	5193.1	320.7	242.1	182.7	129.6	101.9	82.8	70.1	59.5	57.3
55°	9375.1	5609.3	291.0	225.1	155.0	110.4	85.0	68.0	55.2	46.7	46.7
57.5°	10139.7	5991.7	259.1	197.5	127.4	93.5	70.1	55.2	44.6	38.2	36.1
60°	11053.0	6520.5	223.0	167.8	106.2	78.6	57.3	44.6	36.1	29.7	29.7
62.5°	12410.2	7070.6	191.2	140.2	89.2	65.8	46.7	36.1	29.7	25.5	23.4
65°	12854.1	6773.3	161.4	114.7	72.2	53.1	38.2	31.9	25.5	23.4	21.2
67.5°	11669.0	5552.0	133.8	93.5	59.5	44.6	34.0	27.6	23.4	21.2	19.1
70°	9105.4	3939.9	104.1	70.1	48.9	36.1	29.7	25.5	21.2	19.1	19.1
72.5°	6193.4	2330.0	82.8	53.1	40.4	31.9	25.5	23.4	21.2	19.1	17.0
75°	3050.0	828.3	63.7	40.4	31.9	27.6	23.4	21.2	19.1	17.0	17.0
77.5°	822.0	229.4	48.9	31.9	25.5	21.2	21.2	21.2	19.1	14.9	14.9
80°	278.2	95.6	36.1	23.4	21.2	17.0	14.9	19.1	17.0	14.9	12.7
82.5°	152.9	46.7	25.5	19.1	14.9	12.7	12.7	12.7	12.7	10.6	10.6
85°	97.7	25.5	17.0	14.9	14.9	10.6	8.5	8.5	6.4	6.4	6.4
87.5°	44.6	14.9	14.9	12.7	12.7	10.6	6.4	4.2	2.1	2.1	2.1
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)