

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: P642712

Luminaire Tested: GWS-SA6D-740-U-SL4-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P642712
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-36)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA6D-740-U-SL4-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: (96) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28224.4 lumens
Efficiency: N/A
Efficacy: 114.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

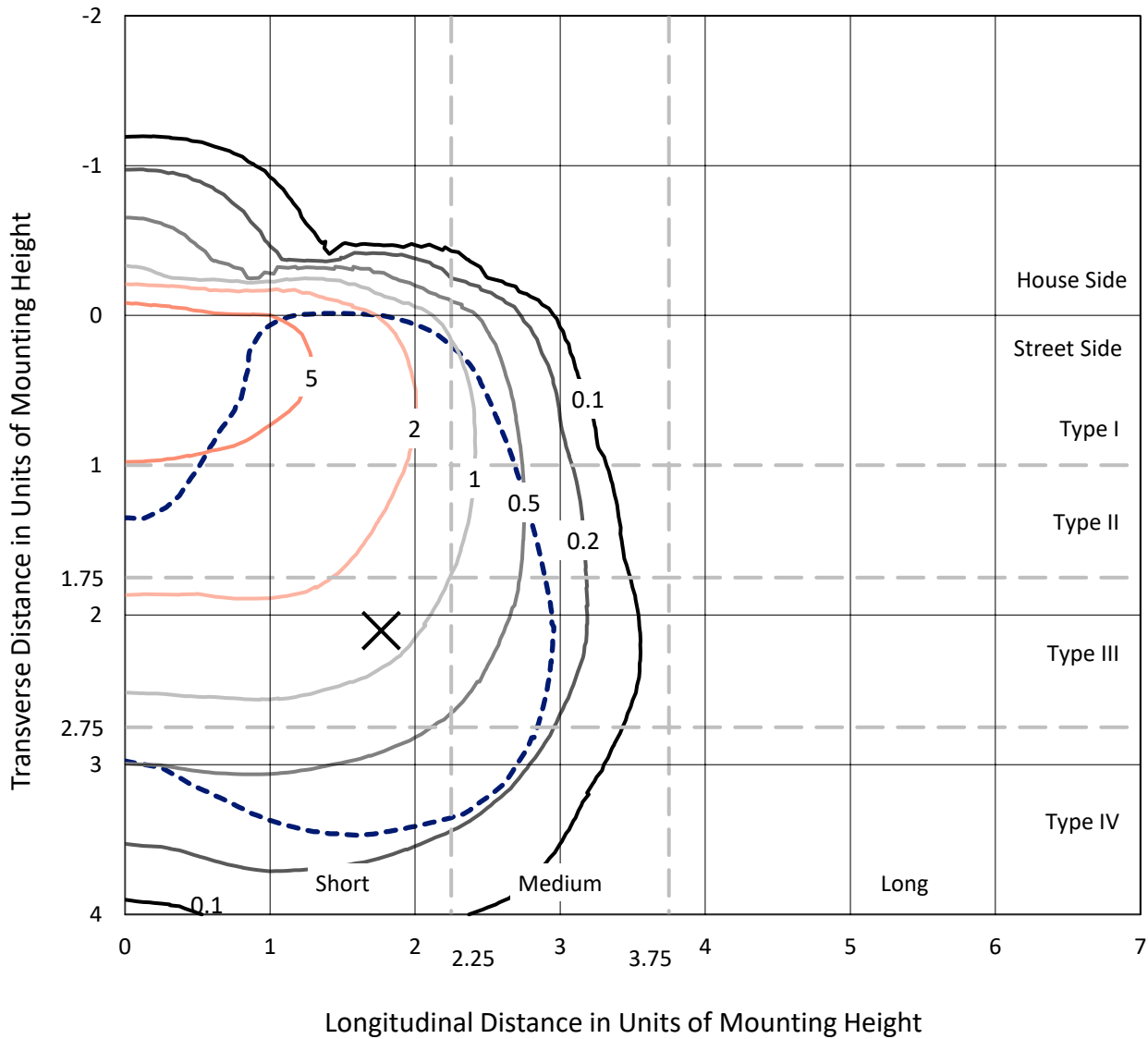
Input Watts (W): 245.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

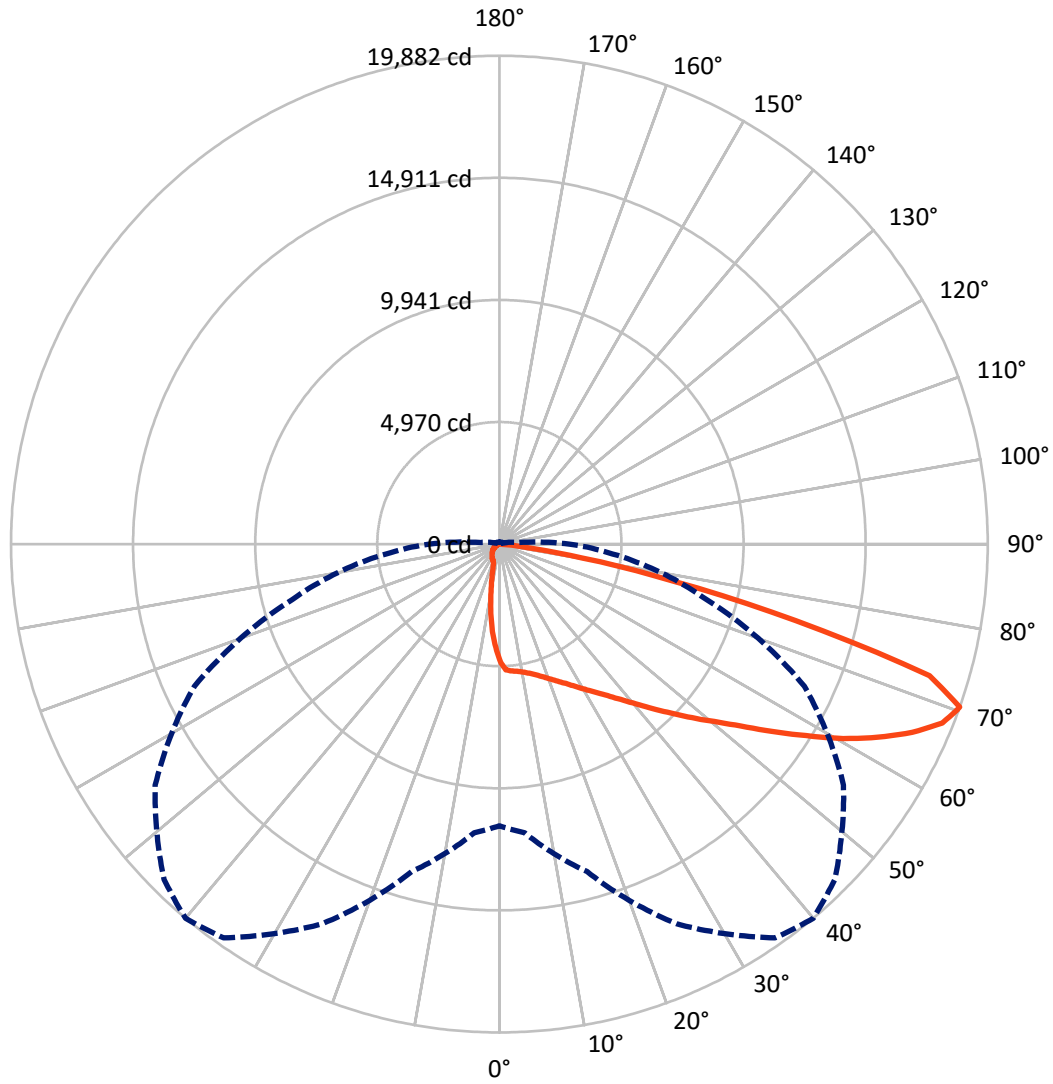
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2308.0	0.0	2308.0
	% Fixture	8.2	0.0	8.2
Street Side	Lumens	25916.4	0.0	25916.4
	% Fixture	91.8	0.0	91.8
Total	Lumens	28224.4	0.0	28224.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	404.8	1.4
10°-20°	1026.7	3.6
20°-30°	1718.3	6.1
30°-40°	2698.8	9.6
40°-50°	4268.8	15.1
50°-60°	6227.1	22.1
60°-70°	7719.4	27.4
70°-80°	3905.6	13.8
80°-90°	255.0	0.9
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°	28224.4	100.0
0°-180°	28224.4	100.0

Coefficient of Utilization



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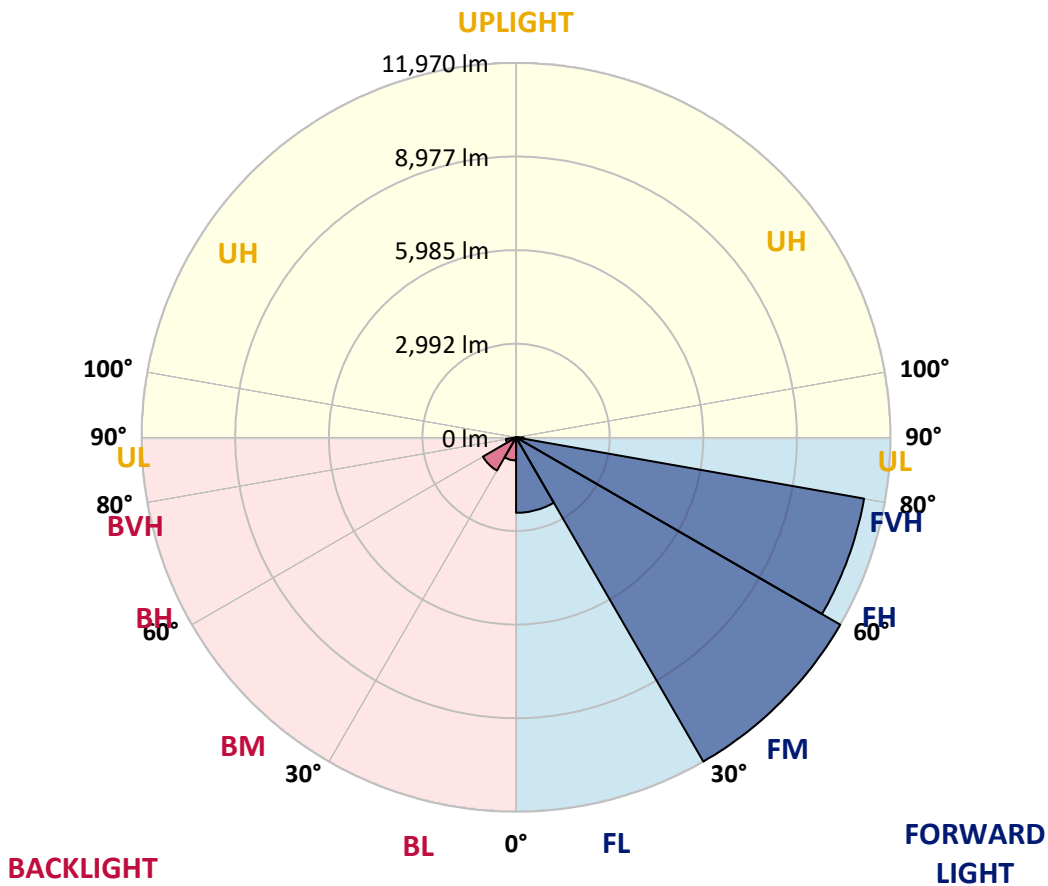
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2412.7	8.5			
FM (30°-60°)	11969.7	42.4			
FH (60°-80°)	11295.9	40.0			G4/12000
FVH (80°-90°)	238.1	0.8			G3/500
BL (0°-30°)	737.1	2.6	B2/1000		
BM (30°-60°)	1225.1	4.3	B2/2500		
BH (60°-80°)	329.1	1.2	B1/500		G1/500
BVH (80°-90°)	16.8	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	4789.3	4789.3	4789.3	4789.3	4789.3	4789.3	4789.3	4789.3	4789.3	4789.3	4789.3
2.5°	5148.9	5166.8	5164.3	5172.0	5154.0	5125.8	5120.6	5082.1	5012.8	4925.4	4827.9
5°	5254.2	5274.7	5259.3	5251.6	5218.2	5187.4	5179.7	5138.6	5059.0	4940.9	4771.4
7.5°	5344.0	5349.2	5338.9	5320.9	5272.1	5231.0	5202.8	5146.3	5051.3	4933.2	4738.0
10°	5359.4	5356.9	5362.0	5364.6	5333.8	5297.8	5274.7	5197.7	5077.0	4951.1	4740.6
12.5°	5341.5	5341.5	5374.8	5413.4	5413.4	5395.4	5372.3	5302.9	5161.7	5012.8	4791.9
15°	5364.6	5372.3	5436.5	5508.4	5531.5	5513.5	5503.2	5431.3	5285.0	5120.6	4884.4
17.5°	5446.8	5454.5	5557.2	5665.0	5693.3	5672.7	5652.2	5580.3	5423.6	5243.9	4989.6
20°	5567.4	5588.0	5719.0	5857.6	5883.3	5857.6	5816.5	5716.4	5559.7	5377.4	5089.8
22.5°	5788.3	5801.1	5942.4	6088.8	6101.6	6060.5	5998.9	5860.2	5695.9	5518.7	5202.8
25°	6081.1	6099.0	6240.3	6381.5	6348.1	6286.5	6201.7	6045.1	5857.6	5685.6	5346.6
27.5°	6430.3	6450.8	6589.5	6712.8	6625.5	6553.6	6458.6	6263.4	6073.3	5916.7	5531.5
30°	6807.8	6825.8	6949.0	7059.5	6943.9	6859.2	6746.2	6545.9	6353.3	6235.1	5793.4
32.5°	7172.5	7169.9	7288.0	7377.9	7259.8	7193.0	7090.3	6887.4	6733.3	6682.0	6183.8
35°	7511.4	7511.4	7609.0	7698.9	7614.2	7578.2	7483.2	7321.4	7234.1	7295.7	6705.1
37.5°	7853.0	7835.0	7927.5	8027.6	8019.9	8022.5	7968.5	7891.5	7896.6	8114.9	7421.6
40°	8135.5	8127.8	8235.6	8366.6	8469.3	8551.5	8518.1	8546.3	8708.1	9116.4	8338.3
42.5°	8361.4	8379.4	8518.1	8726.1	8985.5	9152.4	9175.5	9291.1	9707.1	10338.8	9373.2
45°	8620.8	8623.4	8816.0	9134.4	9547.9	9812.4	9904.8	10202.7	10793.4	11607.4	10508.3
47.5°	8939.2	8908.4	9124.1	9571.0	10169.3	10559.7	10724.0	11096.4	12010.6	12845.2	11432.8
50°	9291.1	9234.6	9478.5	10087.2	10865.3	11353.2	11687.0	12231.4	13217.6	13862.1	12121.0
52.5°	9699.4	9645.5	9922.8	10680.4	11699.9	12293.1	12721.9	13271.5	14252.5	14637.7	12531.9
55°	10218.1	10164.2	10456.9	11391.7	12686.0	13456.4	13905.8	14368.0	15215.5	15210.3	12829.8
57.5°	10793.4	10718.9	11124.6	12290.5	13916.1	14717.3	15174.4	15400.4	15947.4	15654.6	13030.1
60°	11453.3	11386.6	11949.0	13361.4	15336.2	16078.3	16365.9	16273.5	16548.3	15916.5	12960.8
62.5°	12049.1	12018.3	12716.8	14496.4	16689.5	17316.1	17395.7	16992.5	16990.0	15921.7	12493.4
65°	12668.0	12727.1	13764.5	15803.5	18050.6	18471.7	18335.6	17706.4	17167.2	15292.5	11111.8
67.5°	12899.1	13071.2	14455.3	16984.8	19124.0	19452.7	19213.9	18063.4	16430.1	13176.5	8461.6
70°	11471.3	11794.9	13803.1	17051.6	19568.3	19881.5	19308.9	17103.0	13697.8	8728.7	4635.3
72.5°	8723.5	9101.0	11502.1	13962.3	17598.6	18312.5	17334.1	13934.0	8828.8	3823.8	1556.2
75°	4881.8	5290.1	8566.9	10513.4	11815.4	12467.7	12108.2	8939.2	3911.1	999.0	464.8
77.5°	1651.2	1787.3	3985.6	6504.8	7799.1	7213.5	6106.7	4440.1	1438.1	380.1	246.5
80°	978.4	1029.8	1484.3	3238.3	4103.7	3402.6	2686.1	1641.0	731.9	202.9	172.1
82.5°	292.8	346.7	819.2	1201.8	1607.6	1001.5	847.4	937.3	380.1	110.4	143.8
85°	0.0	0.0	174.6	372.4	421.2	164.4	164.4	531.6	69.3	46.2	105.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	2.6	12.8	7.7	10.3	23.1
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°	4789.3	4789.3	4789.3	4789.3	4789.3	4789.3	4789.3	4789.3	4789.3	4789.3	4789.3
2.5°	4758.5	4668.6	4563.4	4463.2	4368.2	4244.9	4185.9	4114.0	4052.3	4018.9	4036.9
5°	4663.5	4522.3	4306.6	4088.3	3867.4	3659.4	3472.0	3346.1	3233.1	3174.1	3186.9
7.5°	4581.3	4391.3	4054.9	3697.9	3343.6	2986.6	2696.4	2470.4	2295.8	2223.9	2211.1
10°	4545.4	4306.6	3831.5	3317.9	2773.5	2293.2	1882.4	1633.3	1456.1	1368.8	1384.2
12.5°	4563.4	4262.9	3641.4	2945.5	2239.3	1679.5	1286.6	1052.9	927.1	875.7	862.9
15°	4614.7	4252.6	3472.0	2565.4	1728.3	1173.6	888.5	793.5	767.8	762.7	762.7
17.5°	4673.8	4255.2	3297.3	2180.2	1312.3	870.6	760.1	742.2	734.5	729.3	731.9
20°	4732.8	4255.2	3097.0	1789.9	986.1	752.4	724.2	711.3	703.6	701.1	701.1
22.5°	4804.8	4255.2	2873.6	1427.8	790.9	713.9	690.8	683.1	675.4	672.8	670.3
25°	4892.1	4257.8	2627.1	1117.1	719.0	680.5	662.5	654.8	647.1	642.0	642.0
27.5°	5017.9	4278.3	2354.9	870.6	678.0	649.7	634.3	626.6	618.9	611.2	611.2
30°	5200.2	4329.7	2049.3	719.0	639.4	616.3	600.9	595.8	588.1	580.4	577.8
32.5°	5472.4	4419.5	1733.4	644.6	603.5	580.4	562.4	557.3	549.6	541.9	539.3
35°	5852.5	4583.9	1425.2	598.3	557.3	534.1	523.9	521.3	511.0	503.3	503.3
37.5°	6409.8	4851.0	1129.9	552.1	518.7	500.8	487.9	482.8	472.5	464.8	462.2
40°	7090.3	5197.7	878.3	516.2	482.8	464.8	452.0	444.3	431.4	421.2	416.0
42.5°	7958.3	5621.4	693.4	477.7	449.4	431.4	421.2	405.7	387.8	372.4	369.8
45°	8862.2	6057.9	572.7	441.7	418.6	403.2	390.3	369.8	344.1	326.1	321.0
47.5°	9555.6	6330.1	500.8	403.2	385.2	372.4	357.0	331.3	300.5	279.9	274.8
50°	10051.2	6371.2	446.8	367.2	357.0	344.1	321.0	290.2	256.8	236.3	231.1
52.5°	10295.2	6186.3	403.2	333.8	326.1	313.3	285.0	251.7	215.7	195.2	190.0
55°	10405.6	5837.1	362.1	305.6	295.3	279.9	249.1	213.1	177.2	159.2	154.1
57.5°	10361.9	5320.9	326.1	277.3	264.5	246.5	213.1	174.6	146.4	128.4	125.8
60°	10038.4	4596.7	290.2	249.1	233.7	213.1	179.8	143.8	118.1	105.3	102.7
62.5°	9339.9	3697.9	254.2	215.7	205.4	184.9	154.1	118.1	97.6	89.9	87.3
65°	7909.5	2614.2	218.3	182.3	177.2	156.6	128.4	97.6	84.7	79.6	77.0
67.5°	5685.6	1589.6	184.9	156.6	151.5	133.5	107.9	84.7	77.0	74.5	74.5
70°	2858.2	752.4	146.4	128.4	128.4	110.4	92.4	77.0	74.5	71.9	71.9
72.5°	970.7	321.0	110.4	100.2	105.3	95.0	79.6	71.9	71.9	71.9	71.9
75°	331.3	169.5	77.0	71.9	77.0	77.0	69.3	69.3	71.9	71.9	71.9
77.5°	215.7	113.0	53.9	48.8	59.1	59.1	59.1	64.2	69.3	69.3	69.3
80°	177.2	61.6	36.0	33.4	43.7	43.7	48.8	59.1	64.2	64.2	64.2
82.5°	151.5	38.5	20.5	23.1	30.8	33.4	41.1	48.8	56.5	59.1	59.1
85°	102.7	20.5	15.4	18.0	20.5	25.7	33.4	41.1	46.2	51.4	51.4
87.5°	28.2	7.7	10.3	12.8	12.8	18.0	25.7	30.8	36.0	38.5	38.5
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)