

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: P642657

Luminaire Tested: GWS-SA6D-735-U-SL4-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P642657
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-735-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) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27837.5 lumens
Efficiency: N/A
Efficacy: 113.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

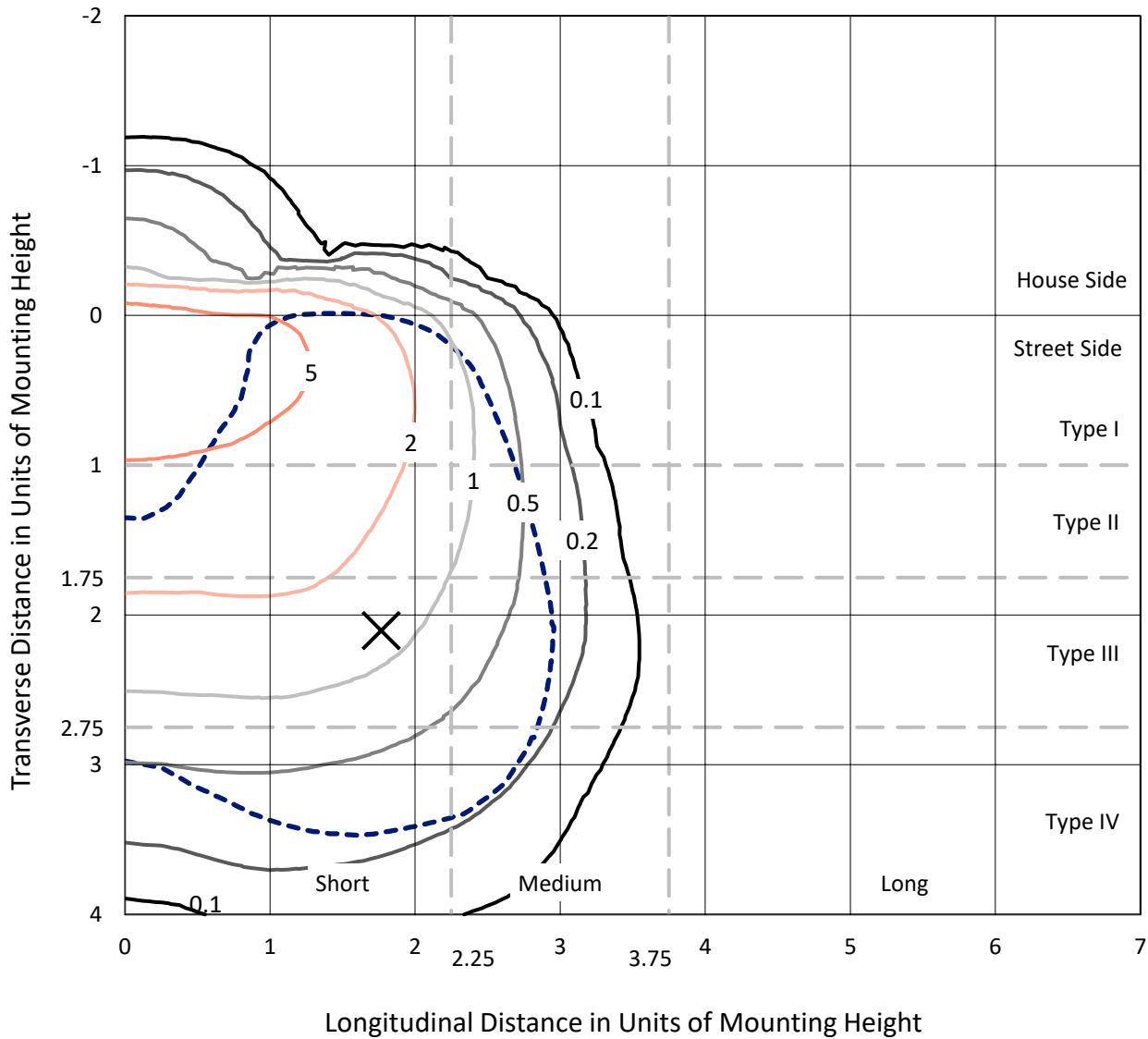
Input Watts (W): 245.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

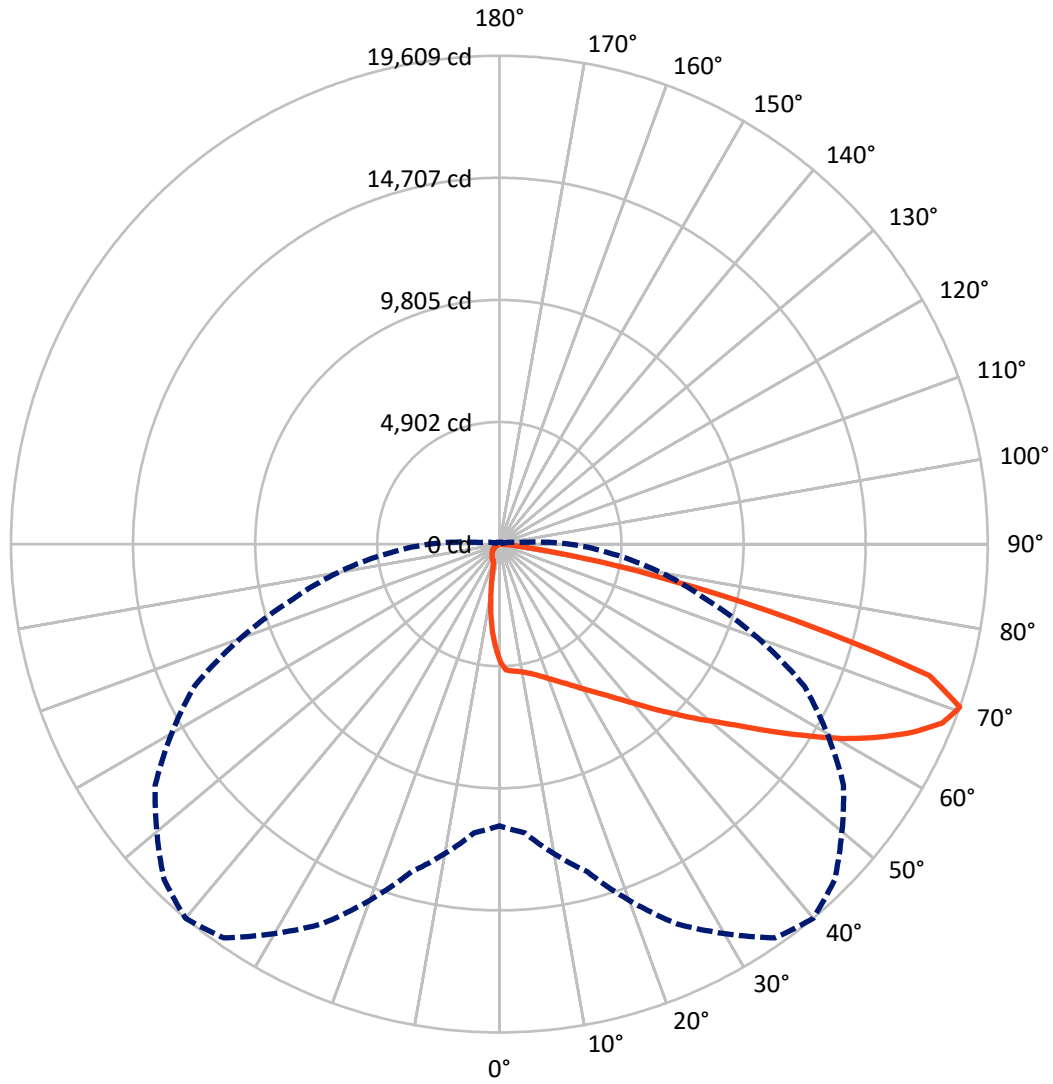
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.2 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	2276.4	0.0	2276.4
	% Fixture	8.2	0.0	8.2
Street Side	Lumens	25561.1	0.0	25561.1
	% Fixture	91.8	0.0	91.8
Total	Lumens	27837.5	0.0	27837.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	399.2	1.4
10°-20°	1012.6	3.6
20°-30°	1694.7	6.1
30°-40°	2661.8	9.6
40°-50°	4210.3	15.1
50°-60°	6141.8	22.1
60°-70°	7613.6	27.4
70°-80°	3852.0	13.8
80°-90°	251.5	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°	27837.5	100.0
0°-180°	27837.5	100.0

Coefficient of Utilization



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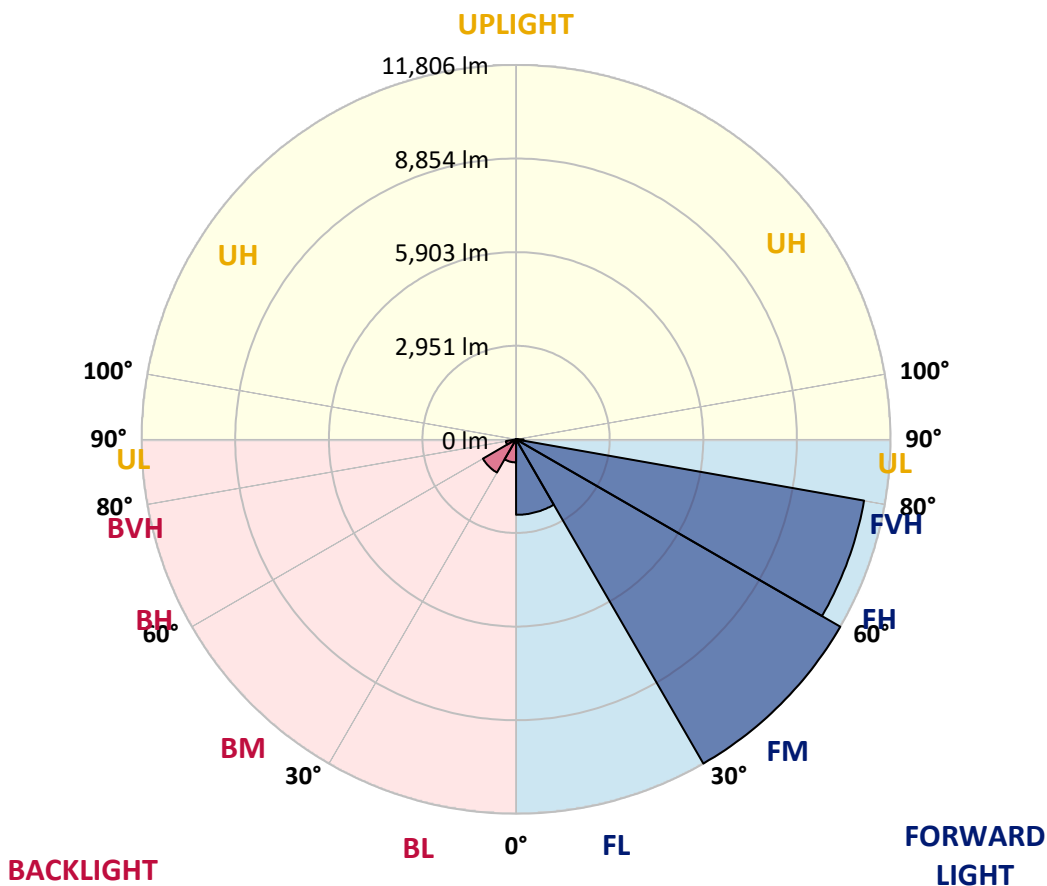
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2379.6	8.5			
FM (30°-60°)	11805.6	42.4			
FH (60°-80°)	11141.1	40.0			G4/12000
FVH (80°-90°)	234.9	0.8			G3/500
BL (0°-30°)	727.0	2.6	B2/1000		
BM (30°-60°)	1208.3	4.3	B2/2500		
BH (60°-80°)	324.6	1.2	B1/500		G1/500
BVH (80°-90°)	16.6	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°	4723.7	4723.7	4723.7	4723.7	4723.7	4723.7	4723.7	4723.7	4723.7	4723.7	4723.7
2.5°	5078.3	5096.0	5093.5	5101.1	5083.3	5055.5	5050.4	5012.4	4944.0	4857.9	4761.7
5°	5182.1	5202.4	5187.2	5179.6	5146.7	5116.3	5108.7	5068.2	4989.6	4873.1	4706.0
7.5°	5270.8	5275.8	5265.7	5248.0	5199.9	5159.3	5131.5	5075.8	4982.0	4865.5	4673.0
10°	5286.0	5283.4	5288.5	5291.0	5260.6	5225.2	5202.4	5126.4	5007.4	4883.3	4675.6
12.5°	5268.2	5268.2	5301.2	5339.2	5339.2	5321.4	5298.6	5230.3	5090.9	4944.0	4726.2
15°	5291.0	5298.6	5362.0	5432.9	5455.7	5437.9	5427.8	5356.9	5212.5	5050.4	4817.4
17.5°	5372.1	5379.7	5481.0	5587.4	5615.2	5595.0	5574.7	5503.8	5349.3	5172.0	4921.2
20°	5491.1	5511.4	5640.6	5777.3	5802.7	5777.3	5736.8	5638.0	5483.5	5303.7	5020.0
22.5°	5709.0	5721.6	5860.9	6005.3	6018.0	5977.4	5916.6	5779.9	5617.8	5443.0	5131.5
25°	5997.7	6015.4	6154.7	6294.0	6261.1	6200.3	6116.7	5962.2	5777.3	5607.6	5273.3
27.5°	6342.2	6362.4	6499.2	6620.8	6534.6	6463.7	6370.0	6177.5	5990.1	5835.6	5455.7
30°	6714.5	6732.2	6853.8	6962.7	6848.7	6765.1	6653.7	6456.1	6266.2	6149.7	5714.0
32.5°	7074.1	7071.6	7188.1	7276.8	7160.3	7094.4	6993.1	6793.0	6641.0	6590.4	6099.0
35°	7408.5	7408.5	7504.7	7593.4	7509.8	7474.3	7380.6	7221.0	7134.9	7195.7	6613.2
37.5°	7745.3	7727.6	7818.8	7917.6	7910.0	7912.5	7859.3	7783.3	7788.4	8003.7	7319.8
40°	8023.9	8016.3	8122.7	8251.9	8353.2	8434.3	8401.3	8429.2	8588.8	8991.5	8224.0
42.5°	8246.8	8264.6	8401.3	8606.5	8862.3	9026.9	9049.7	9163.7	9574.0	10197.1	9244.8
45°	8502.6	8505.2	8695.1	9009.2	9417.0	9677.9	9769.0	10062.9	10645.4	11448.3	10364.3
47.5°	8816.7	8786.3	8999.1	9439.8	10029.9	10414.9	10577.0	10944.3	11846.0	12669.1	11276.1
50°	9163.7	9108.0	9348.6	9948.9	10716.3	11197.6	11526.8	12063.8	13036.4	13672.1	11954.9
52.5°	9566.4	9513.2	9786.8	10534.0	11539.5	12124.6	12547.5	13089.6	14057.1	14437.0	12360.1
55°	10078.0	10024.9	10313.6	11235.5	12512.1	13271.9	13715.2	14171.1	15006.9	15001.8	12653.9
57.5°	10645.4	10571.9	10972.1	12122.0	13725.3	14515.5	14966.4	15189.3	15728.7	15440.0	12851.5
60°	11296.3	11230.5	11785.2	13178.2	15125.9	15857.9	16141.6	16050.4	16321.4	15698.4	12783.1
62.5°	11883.9	11853.5	12542.5	14297.7	16460.7	17078.7	17157.3	16759.6	16757.1	15703.4	12322.1
65°	12494.4	12552.6	13575.9	15586.9	17803.1	18218.5	18084.3	17463.7	16931.8	15082.9	10959.5
67.5°	12722.3	12892.0	14257.2	16752.0	18861.8	19186.0	18950.5	17815.8	16204.9	12995.8	8345.6
70°	11314.1	11633.2	13613.9	16817.9	19300.0	19609.0	19044.2	16868.5	13510.0	8609.0	4571.7
72.5°	8604.0	8976.3	11344.5	13770.9	17357.3	18061.5	17096.5	13743.0	8707.8	3771.4	1534.9
75°	4814.9	5217.6	8449.5	10369.3	11653.5	12296.8	11942.2	8816.7	3857.5	985.3	458.4
77.5°	1628.6	1762.8	3930.9	6415.6	7692.1	7114.7	6023.0	4379.2	1418.4	374.9	243.1
80°	965.0	1015.7	1464.0	3193.9	4047.4	3356.0	2649.3	1618.5	721.9	200.1	169.7
82.5°	288.7	341.9	808.0	1185.4	1585.5	987.8	835.8	924.5	374.9	108.9	141.8
85°	0.0	0.0	172.2	367.3	415.4	162.1	162.1	524.3	68.4	45.6	103.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	2.5	12.7	7.6	10.1	22.8
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°	4723.7	4723.7	4723.7	4723.7	4723.7	4723.7	4723.7	4723.7	4723.7	4723.7	4723.7
2.5°	4693.3	4604.6	4500.8	4402.0	4308.3	4186.7	4128.5	4057.6	3996.8	3963.8	3981.6
5°	4599.6	4460.3	4247.5	4032.2	3814.4	3609.3	3424.4	3300.3	3188.8	3130.6	3143.2
7.5°	4518.5	4331.1	3999.3	3647.2	3297.7	2945.7	2659.5	2436.6	2264.3	2193.4	2180.7
10°	4483.1	4247.5	3779.0	3272.4	2735.4	2261.8	1856.5	1610.9	1436.1	1350.0	1365.2
12.5°	4500.8	4204.5	3591.5	2905.1	2208.6	1656.5	1268.9	1038.5	914.3	863.7	851.0
15°	4551.5	4194.3	3424.4	2530.3	1704.6	1157.5	876.4	782.6	757.3	752.2	752.2
17.5°	4609.7	4196.9	3252.1	2150.4	1294.3	858.6	749.7	732.0	724.4	719.3	721.9
20°	4668.0	4196.9	3054.6	1765.4	972.6	742.1	714.3	701.6	694.0	691.5	691.5
22.5°	4738.9	4196.9	2834.2	1408.2	780.1	704.1	681.3	673.7	666.1	663.6	661.1
25°	4825.0	4199.4	2591.1	1101.8	709.2	671.2	653.5	645.9	638.3	633.2	633.2
27.5°	4949.1	4219.7	2322.6	858.6	668.7	640.8	625.6	618.0	610.4	602.8	602.8
30°	5128.9	4270.3	2021.2	709.2	630.7	607.9	592.7	587.6	580.0	572.4	569.9
32.5°	5397.4	4359.0	1709.6	635.7	595.2	572.4	554.7	549.6	542.0	534.4	531.9
35°	5772.3	4521.1	1405.7	590.1	549.6	526.8	516.7	514.2	504.0	496.4	496.4
37.5°	6321.9	4784.5	1114.4	544.6	511.6	493.9	481.2	476.2	466.0	458.4	455.9
40°	6993.1	5126.4	866.2	509.1	476.2	458.4	445.8	438.2	425.5	415.4	410.3
42.5°	7849.2	5544.3	683.9	471.1	443.2	425.5	415.4	400.2	382.5	367.3	364.7
45°	8740.7	5974.9	564.8	435.6	412.8	397.7	385.0	364.7	339.4	321.7	316.6
47.5°	9424.6	6243.4	493.9	397.7	379.9	367.3	352.1	326.7	296.3	276.1	271.0
50°	9913.4	6283.9	440.7	362.2	352.1	339.4	316.6	286.2	253.3	233.0	228.0
52.5°	10154.0	6101.5	397.7	329.3	321.7	309.0	281.1	248.2	212.8	192.5	187.4
55°	10262.9	5757.1	357.1	301.4	291.3	276.1	245.7	210.2	174.8	157.0	152.0
57.5°	10219.9	5248.0	321.7	273.5	260.9	243.1	210.2	172.2	144.4	126.6	124.1
60°	9900.8	4533.7	286.2	245.7	230.5	210.2	177.3	141.8	116.5	103.8	101.3
62.5°	9211.8	3647.2	250.7	212.8	202.6	182.4	152.0	116.5	96.2	88.6	86.1
65°	7801.1	2578.4	215.3	179.8	174.8	154.5	126.6	96.2	83.6	78.5	76.0
67.5°	5607.6	1567.8	182.4	154.5	149.4	131.7	106.4	83.6	76.0	73.5	73.5
70°	2819.0	742.1	144.4	126.6	126.6	108.9	91.2	76.0	73.5	70.9	70.9
72.5°	957.4	316.6	108.9	98.8	103.8	93.7	78.5	70.9	70.9	70.9	70.9
75°	326.7	167.2	76.0	70.9	76.0	76.0	68.4	68.4	70.9	70.9	70.9
77.5°	212.8	111.4	53.2	48.1	58.3	58.3	58.3	63.3	68.4	68.4	68.4
80°	174.8	60.8	35.5	32.9	43.1	43.1	48.1	58.3	63.3	63.3	63.3
82.5°	149.4	38.0	20.3	22.8	30.4	32.9	40.5	48.1	55.7	58.3	58.3
85°	101.3	20.3	15.2	17.7	20.3	25.3	32.9	40.5	45.6	50.7	50.7
87.5°	27.9	7.6	10.1	12.7	12.7	17.7	25.3	30.4	35.5	38.0	38.0
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)