

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: P641280

Luminaire Tested: GWS-SA5F-750-U-SL3-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P641280  
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-SA5F-750-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) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

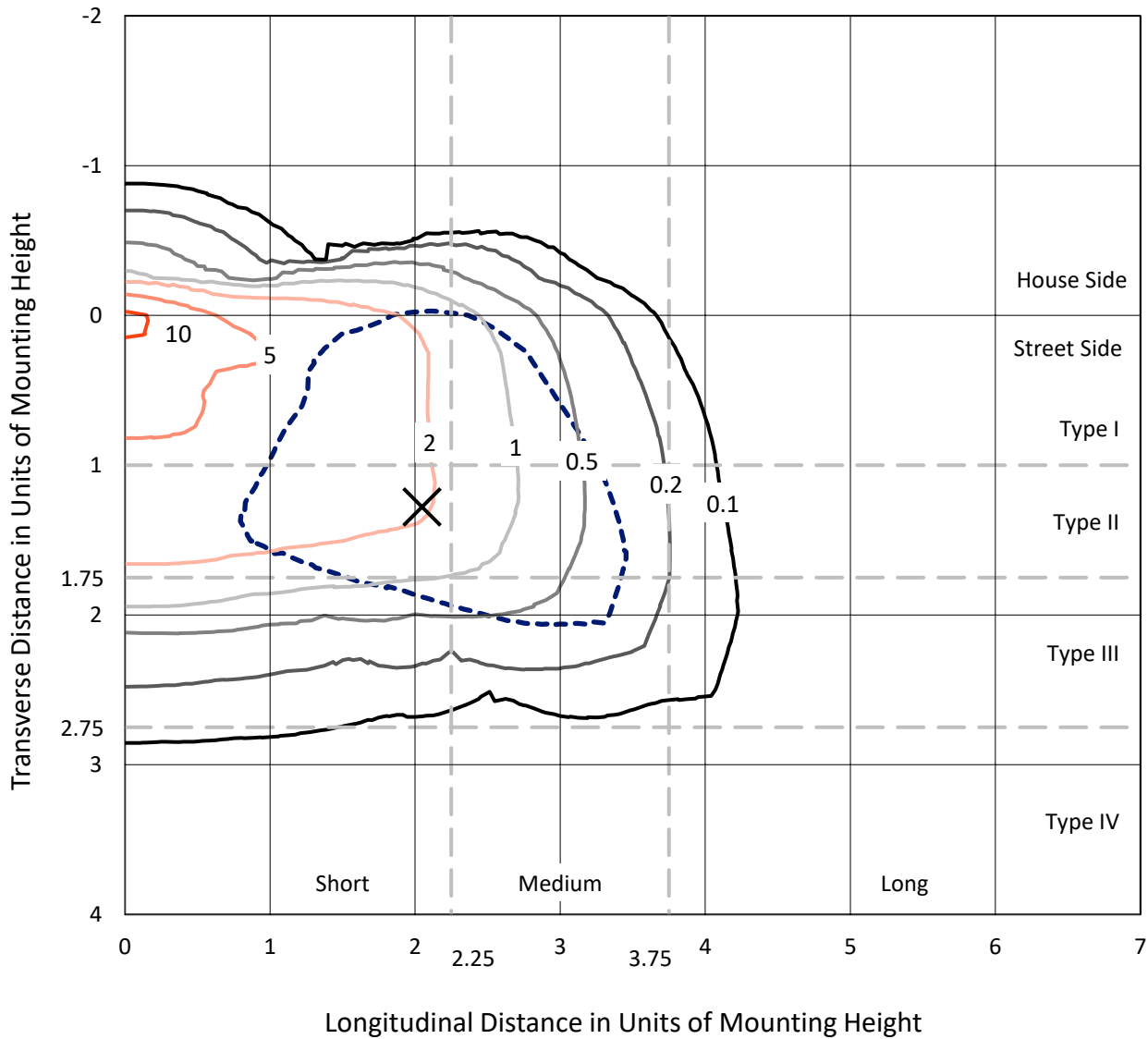
Lumens per Lamp: N/A  
Luminaire Lumens: 34579.5 lumens  
Efficiency: N/A  
Efficacy: 111.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 310.3  
Input Voltage (V): 120  
Input Current (Ain): 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

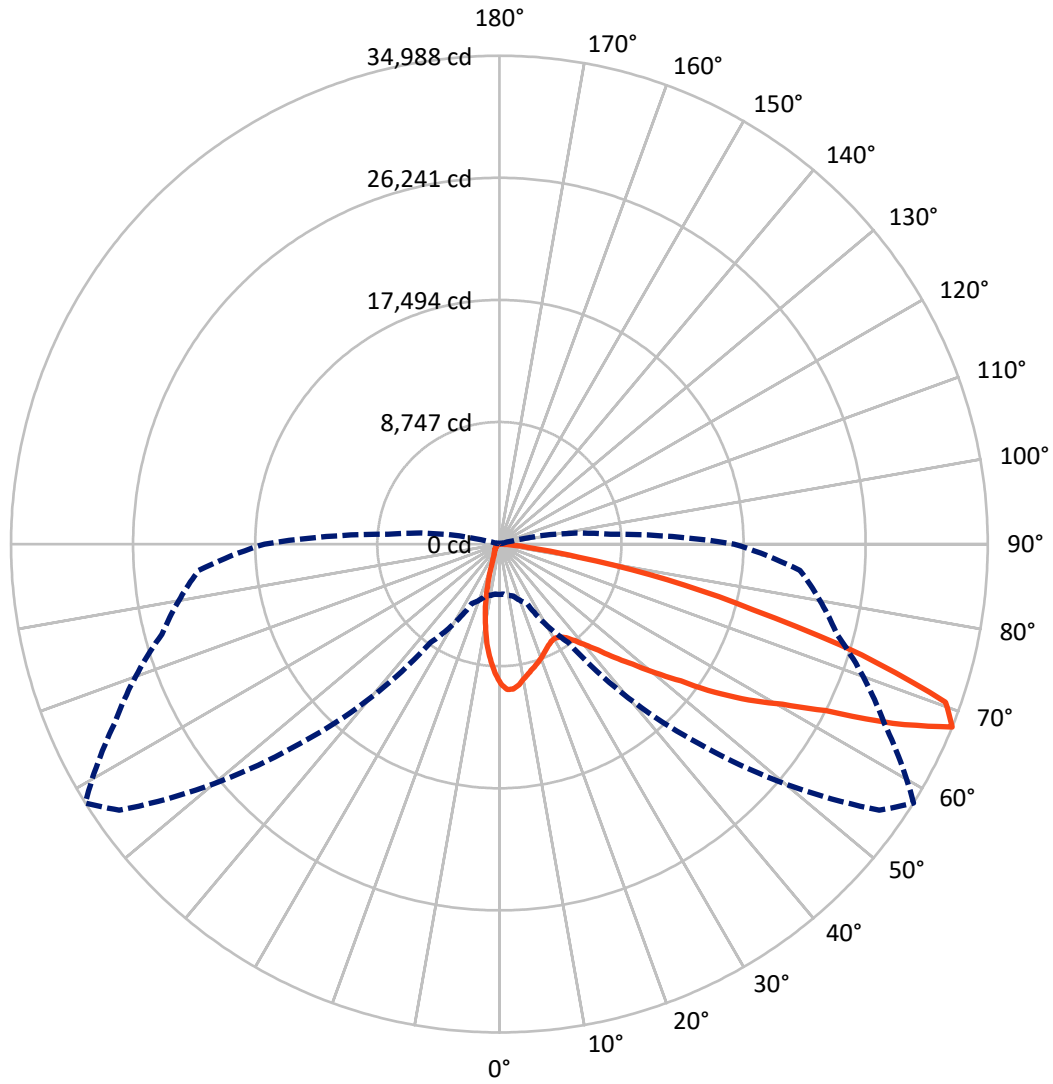
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 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
<b>House Side</b>	Lumens	3378.2	0.0	3378.2
	% Fixture	9.8	0.0	9.8
<b>Street Side</b>	Lumens	31201.3	0.0	31201.3
	% Fixture	90.2	0.0	90.2
<b>Total</b>	Lumens	34579.5	0.0	34579.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	810.5	2.3
10°-20°	1687.2	4.9
20°-30°	2275.3	6.6
30°-40°	3197.3	9.2
40°-50°	4937.9	14.3
50°-60°	7896.3	22.8
60°-70°	9349.8	27.0
70°-80°	4136.1	12.0
80°-90°	289.2	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°	34579.5	100.0
0°-180°	34579.5	100.0

**Coefficient of Utilization**



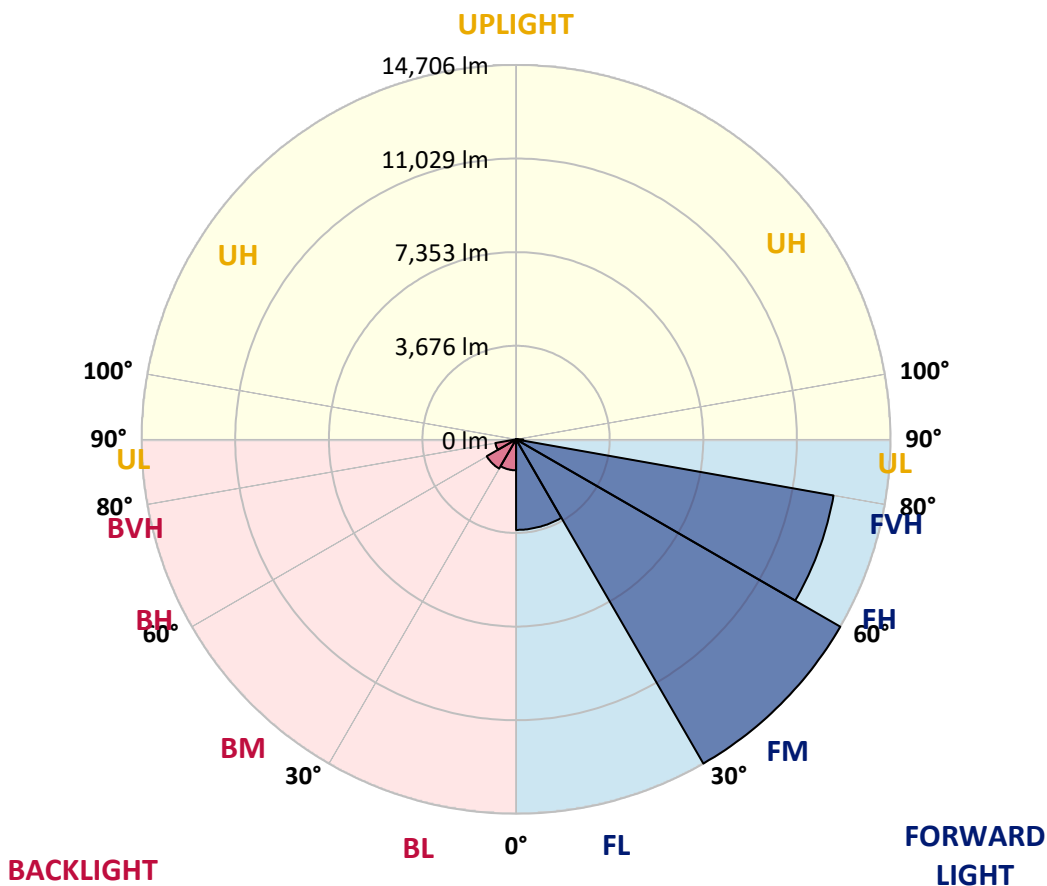
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3557.4	10.3			
FM (30°-60°)	14705.9	42.5			
FH (60°-80°)	12661.2	36.6			G5
FVH (80°-90°)	276.8	0.8			G3/500
BL (0°-30°)	1215.7	3.5	B3/2500		
BM (30°-60°)	1325.5	3.8	B2/2500		
BH (60°-80°)	824.7	2.4	B2/1000		G2/1000
BVH (80°-90°)	12.3	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**  
 Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	9974.4	9974.4	9974.4	9974.4	9974.4	9974.4	9974.4	9974.4	9974.4	9974.4	9974.4
2.5°	10491.6	10509.9	10534.4	10565.0	10558.9	10531.4	10497.7	10421.2	10372.2	10219.2	10032.5
5°	10154.9	10151.9	10213.1	10271.2	10375.3	10430.4	10506.9	10436.5	10412.0	10228.4	9925.4
7.5°	9496.9	9530.6	9601.0	9692.8	9842.7	10005.0	10188.6	10167.2	10240.6	10118.2	9741.7
10°	8851.1	8832.8	8942.9	9080.7	9310.2	9518.3	9784.6	9781.5	9974.4	9962.1	9533.6
12.5°	8284.9	8281.9	8367.6	8523.6	8793.0	9083.7	9444.9	9454.1	9692.8	9790.7	9356.1
15°	7807.5	7813.6	7896.2	8058.4	8337.0	8692.0	9111.3	9187.8	9457.1	9656.1	9181.7
17.5°	7467.8	7470.8	7519.8	7660.6	7933.0	8312.5	8817.5	8921.5	9267.4	9555.1	9040.9
20°	7311.7	7299.4	7308.6	7379.0	7590.2	7936.0	8517.5	8652.2	9092.9	9484.7	8912.3
22.5°	7333.1	7314.7	7271.9	7262.7	7357.6	7620.8	8199.2	8364.5	8903.2	9441.8	8796.0
25°	7522.8	7483.1	7421.8	7330.0	7293.3	7424.9	7920.7	8092.1	8725.6	9444.9	8707.3
27.5°	7813.6	7770.8	7694.2	7571.8	7428.0	7372.9	7731.0	7893.2	8600.2	9515.3	8664.4
30°	8183.9	8150.3	8076.8	7929.9	7737.1	7510.6	7691.2	7825.8	8539.0	9659.1	8682.8
32.5°	8621.6	8597.1	8535.9	8401.2	8180.9	7835.0	7825.8	7929.9	8587.9	9867.2	8753.2
35°	9043.9	9053.1	9056.2	8982.7	8747.1	8327.8	8196.2	8232.9	8789.9	10179.4	8912.3
37.5°	9500.0	9478.5	9588.7	9640.8	9414.3	8967.4	8768.5	8771.6	9175.5	10641.6	9212.3
40°	9845.8	9851.9	10090.7	10304.9	10210.0	9778.5	9493.8	9490.8	9769.3	11275.1	9695.8
42.5°	10170.2	10210.0	10562.0	10929.2	11060.8	10678.3	10473.2	10396.7	10601.8	12132.0	10421.2
45°	10516.1	10574.2	11067.0	11590.3	11936.2	11709.7	11547.5	11578.1	11602.6	13129.8	11397.5
47.5°	10920.1	10956.8	11565.8	12303.4	12949.2	12891.1	12900.2	12863.5	12851.3	14387.7	12689.1
50°	11409.8	11495.4	12196.3	13077.8	13959.2	14344.8	14473.4	14488.7	14289.7	15758.8	14026.5
52.5°	12450.3	12554.4	13154.3	13925.5	15061.0	15872.0	16395.4	16291.3	15985.3	17087.1	15492.5
55°	13677.6	13757.2	14335.6	15134.4	16407.6	17546.2	18788.8	18745.9	17996.1	18485.8	16698.4
57.5°	13793.9	13882.7	14779.4	16003.6	18136.9	19615.1	20922.0	21059.7	19960.9	19477.4	17775.7
60°	12487.1	12667.6	13891.9	15538.4	18797.9	22397.1	23260.2	23287.8	21402.5	20484.3	19091.7
62.5°	10008.0	10093.7	11327.1	13475.6	17778.8	24019.2	26831.9	26250.4	23254.1	22042.1	21176.0
65°	5245.8	5594.7	6669.0	9047.0	14418.3	23453.0	31128.9	30969.8	26584.0	24273.3	22798.1
67.5°	3599.2	3596.2	3850.2	4716.3	8597.1	20193.5	33237.6	34988.3	30434.2	25038.4	21622.8
70°	2739.2	2748.4	2974.9	3538.0	4453.1	13442.0	30923.9	33917.1	31150.3	22733.8	17488.0
72.5°	1818.0	1836.3	2212.8	2858.6	3556.4	6589.4	24031.5	27137.9	26210.6	18259.3	12309.6
75°	1086.5	1101.8	1371.1	2078.1	3161.6	3688.0	15269.1	18761.2	18042.0	12585.0	6598.6
77.5°	446.8	459.1	703.9	1294.6	2313.8	2864.7	8444.1	12275.9	10806.8	5004.0	1802.7
80°	186.7	192.8	339.7	905.9	1668.0	1796.5	3911.4	5769.1	4428.6	1077.3	550.9
82.5°	67.3	70.4	125.5	498.9	1037.5	1352.8	1974.1	2280.1	1248.7	352.0	296.9
85°	3.1	3.1	30.6	168.3	394.8	382.6	1129.3	1092.6	413.2	146.9	177.5
87.5°	0.0	0.0	3.1	3.1	6.1	15.3	107.1	189.8	88.8	36.7	76.5
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°	9974.4	9974.4	9974.4	9974.4	9974.4	9974.4	9974.4	9974.4	9974.4	9974.4	9974.4
2.5°	9910.1	9747.9	9570.4	9405.1	9141.9	8985.8	8793.0	8707.3	8584.9	8554.3	8572.6
5°	9708.1	9429.6	9004.2	8618.5	8119.7	7718.7	7314.7	7143.3	6923.0	6776.1	6714.9
7.5°	9423.5	9059.2	8395.1	7694.2	7008.7	6277.2	5720.2	5352.9	5019.3	4835.7	4799.0
10°	9135.8	8661.4	7709.5	6705.7	5643.7	4768.3	4015.4	3458.4	3005.5	2800.4	2641.3
12.5°	8838.9	8248.2	7011.7	5701.8	4468.4	3274.8	2344.4	1802.7	1478.2	1349.7	1371.1
15°	8566.5	7850.3	6320.0	4698.0	3146.3	1977.1	1294.6	1092.6	1016.1	991.6	988.6
17.5°	8306.3	7473.9	5631.4	3721.6	2075.1	1212.0	991.6	942.7	921.2	909.0	909.0
20°	8070.7	7112.7	4958.1	2803.5	1340.5	961.0	896.7	872.3	853.9	844.7	844.7
22.5°	7850.3	6763.8	4300.1	1983.2	988.6	863.1	823.3	798.8	777.4	765.1	765.1
25°	7651.4	6448.6	3672.7	1365.0	850.8	789.6	746.8	719.2	682.5	661.1	661.1
27.5°	7507.5	6167.0	3069.7	994.7	768.2	710.0	661.1	624.4	584.6	560.1	554.0
30°	7421.8	5928.3	2460.7	817.2	691.7	633.5	578.4	532.5	486.6	462.1	459.1
32.5°	7372.9	5707.9	1903.7	713.1	627.4	560.1	498.9	449.9	404.0	376.4	373.4
35°	7391.2	5536.5	1426.2	642.7	566.2	495.8	428.5	379.5	339.7	315.2	309.1
37.5°	7550.4	5460.0	1071.2	587.6	514.2	440.7	370.3	324.4	287.7	269.3	266.3
40°	7859.5	5475.3	841.7	544.8	471.3	385.6	318.3	275.5	247.9	232.6	229.5
42.5°	8340.0	5603.9	694.7	508.1	425.4	336.7	275.5	241.8	214.2	198.9	195.9
45°	9056.2	5870.1	606.0	465.2	376.4	290.8	238.7	208.1	183.6	165.3	162.2
47.5°	10093.7	6332.3	547.8	425.4	333.6	251.0	205.1	174.5	153.0	137.7	134.7
50°	11198.6	6886.3	498.9	385.6	296.9	217.3	174.5	143.8	125.5	110.2	107.1
52.5°	12376.9	7483.1	462.1	348.9	263.2	186.7	146.9	119.4	101.0	85.7	82.6
55°	13509.3	8082.9	419.3	324.4	223.4	159.1	122.4	97.9	79.6	67.3	67.3
57.5°	14611.1	8633.8	373.4	284.6	183.6	134.7	101.0	79.6	64.3	55.1	52.0
60°	15927.1	9395.9	321.4	241.8	153.0	113.2	82.6	64.3	52.0	42.8	42.8
62.5°	17882.8	10188.6	275.5	202.0	128.5	94.9	67.3	52.0	42.8	36.7	33.7
65°	18522.5	9760.1	232.6	165.3	104.1	76.5	55.1	45.9	36.7	33.7	30.6
67.5°	16814.7	8000.3	192.8	134.7	85.7	64.3	49.0	39.8	33.7	30.6	27.5
70°	13120.6	5677.3	150.0	101.0	70.4	52.0	42.8	36.7	30.6	27.5	27.5
72.5°	8924.6	3357.4	119.4	76.5	58.2	45.9	36.7	33.7	30.6	27.5	24.5
75°	4395.0	1193.6	91.8	58.2	45.9	39.8	33.7	30.6	27.5	24.5	24.5
77.5°	1184.4	330.5	70.4	45.9	36.7	30.6	30.6	30.6	27.5	21.4	21.4
80°	400.9	137.7	52.0	33.7	30.6	24.5	21.4	27.5	24.5	21.4	18.4
82.5°	220.4	67.3	36.7	27.5	21.4	18.4	18.4	18.4	18.4	15.3	15.3
85°	140.8	36.7	24.5	21.4	21.4	15.3	12.2	12.2	9.2	9.2	9.2
87.5°	64.3	21.4	21.4	18.4	18.4	15.3	9.2	6.1	3.1	3.1	3.1
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)