

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: P641335

Luminaire Tested: GWS-SA5F-760-U-SL3-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P641335  
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-760-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) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

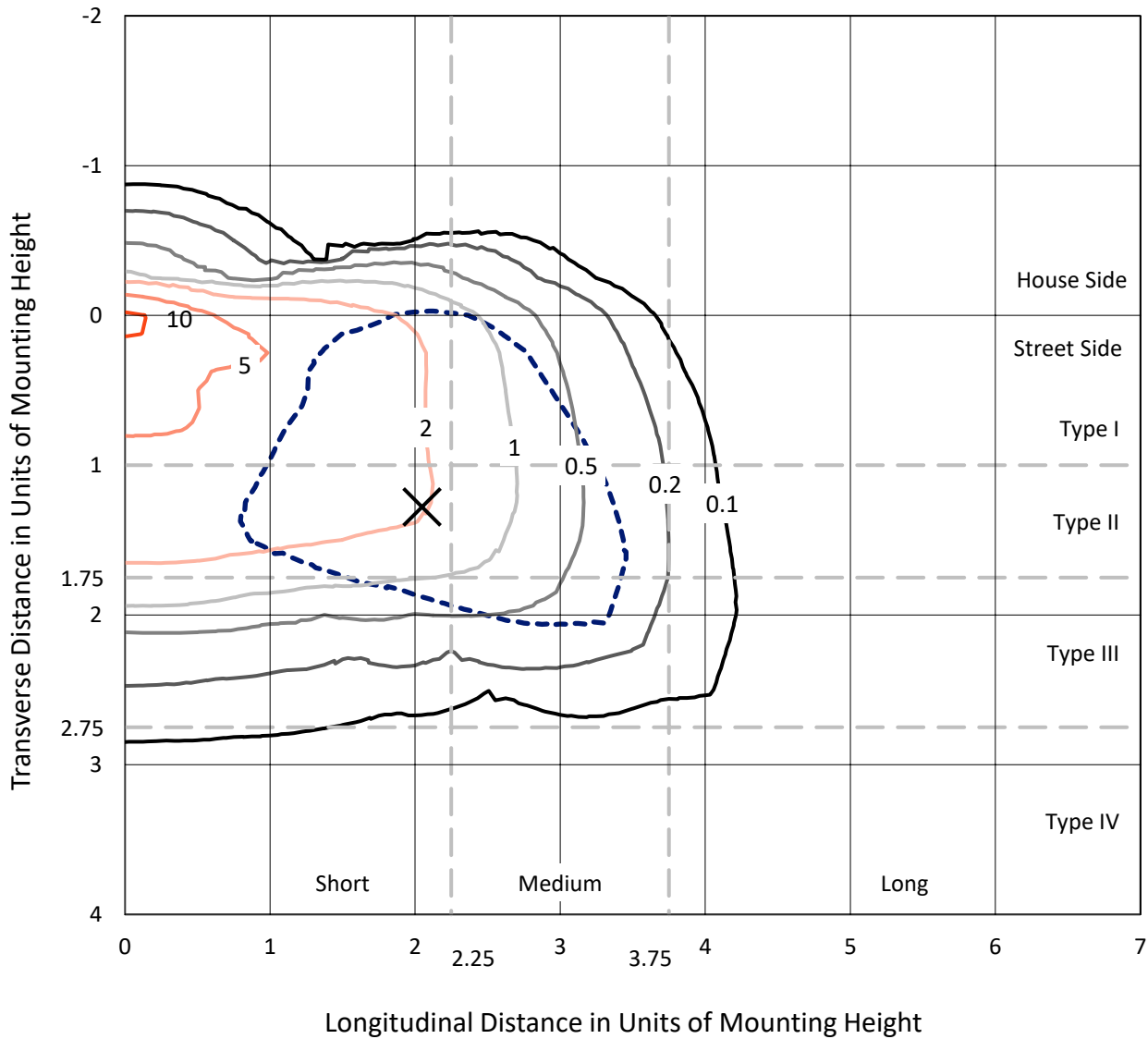
Lumens per Lamp: N/A  
Luminaire Lumens: 34105.5 lumens  
Efficiency: N/A  
Efficacy: 109.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 310.3  
Input Voltage (V): 120  
Input Current (Ain): 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

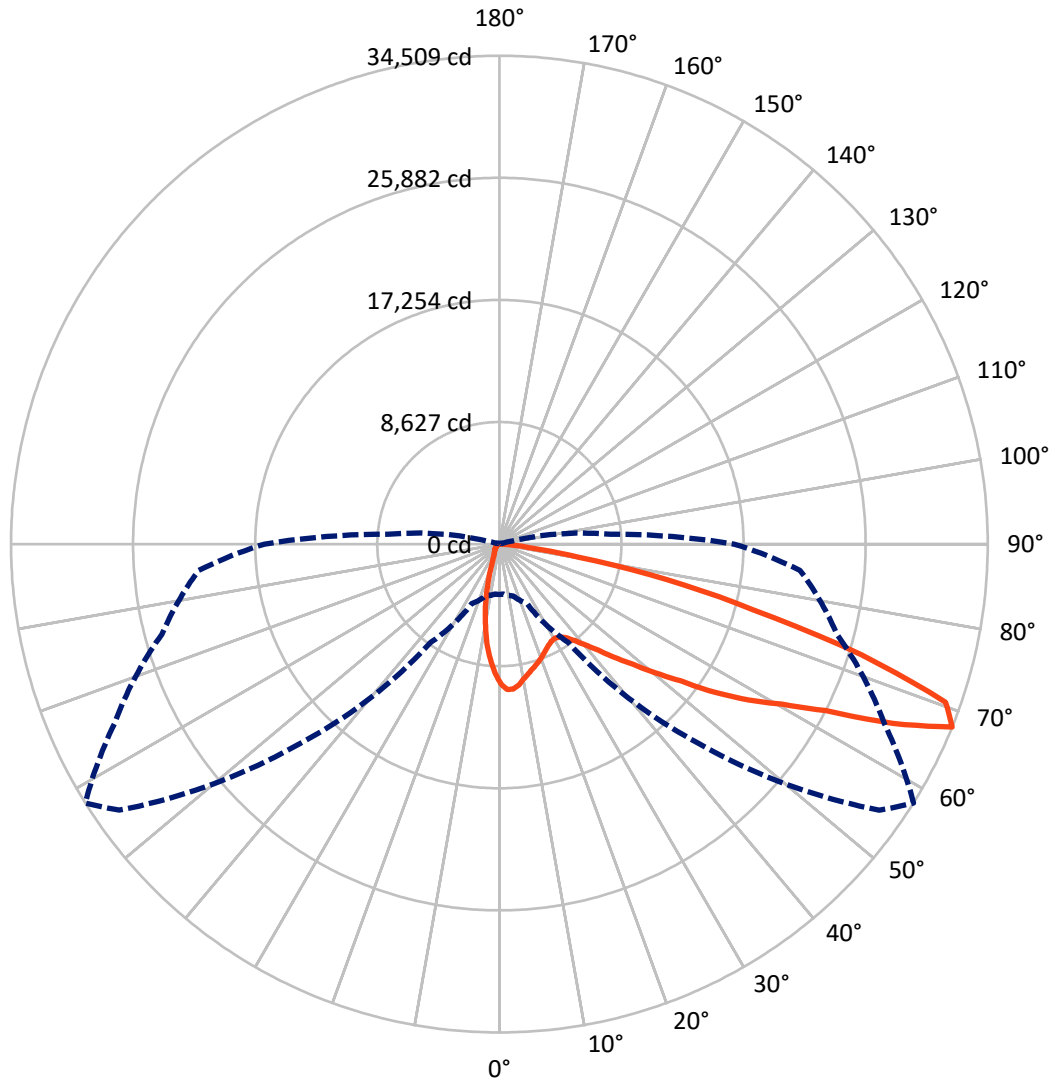
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 10.9 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	3331.9	0.0	3331.9
	% Fixture	9.8	0.0	9.8
<b>Street Side</b>	Lumens	30773.6	0.0	30773.6
	% Fixture	90.2	0.0	90.2
<b>Total</b>	Lumens	34105.5	0.0	34105.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	799.4	2.3
10°-20°	1664.1	4.9
20°-30°	2244.1	6.6
30°-40°	3153.4	9.2
40°-50°	4870.2	14.3
50°-60°	7788.1	22.8
60°-70°	9221.6	27.0
70°-80°	4079.4	12.0
80°-90°	285.2	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°	34105.5	100.0
0°-180°	34105.5	100.0

**Coefficient of Utilization**



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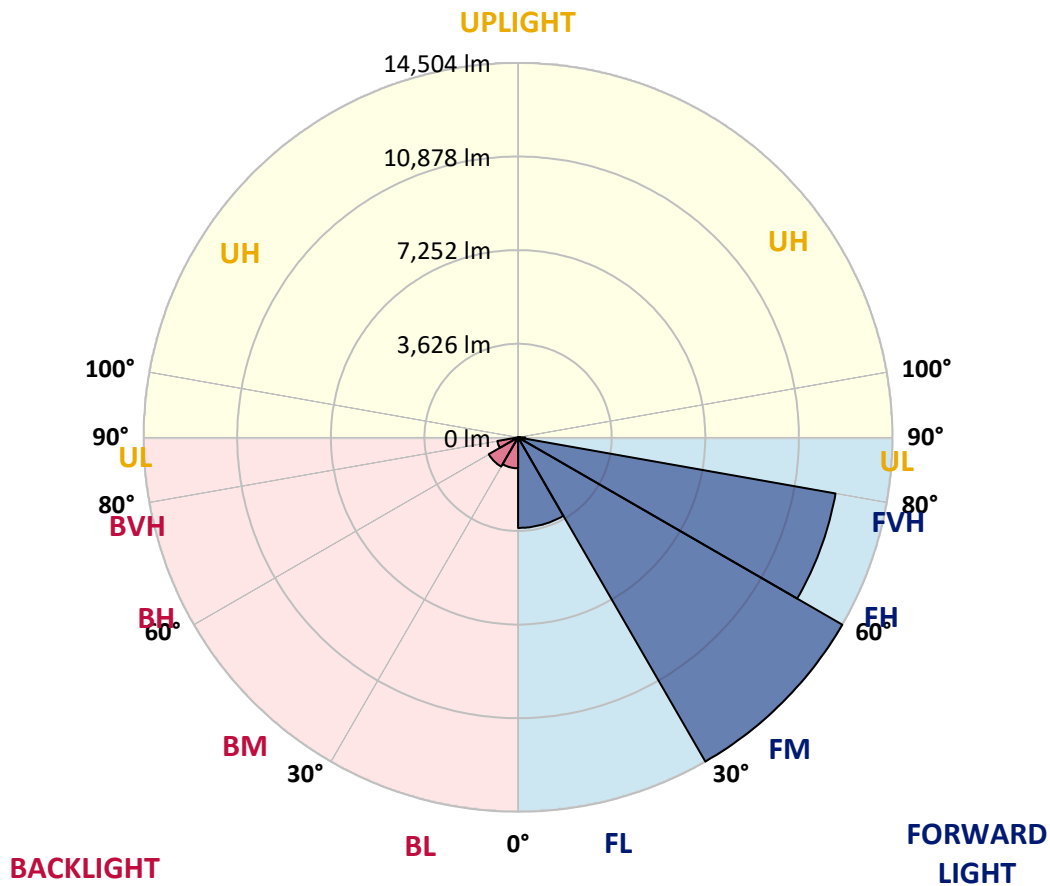
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3508.6	10.3			
FM (30°-60°)	14504.4	42.5			
FH (60°-80°)	12487.6	36.6			G5
FVH (80°-90°)	273.0	0.8			G3/500
BL (0°-30°)	1199.0	3.5	B3/2500		
BM (30°-60°)	1307.3	3.8	B2/2500		
BH (60°-80°)	813.4	2.4	B2/1000		G2/1000
BVH (80°-90°)	12.1	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°	9837.6	9837.6	9837.6	9837.6	9837.6	9837.6	9837.6	9837.6	9837.6	9837.6	9837.6
2.5°	10347.8	10365.9	10390.0	10420.2	10414.2	10387.0	10353.8	10278.3	10230.0	10079.1	9895.0
5°	10015.7	10012.7	10073.1	10130.4	10233.1	10287.4	10362.9	10293.4	10269.3	10088.2	9789.3
7.5°	9366.7	9399.9	9469.4	9559.9	9707.8	9867.8	10048.9	10027.8	10100.2	9979.5	9608.2
10°	8729.8	8711.7	8820.4	8956.2	9182.6	9387.9	9650.5	9647.5	9837.6	9825.6	9402.9
12.5°	8171.4	8168.3	8252.9	8406.8	8672.4	8959.2	9315.4	9324.5	9559.9	9656.5	9227.9
15°	7700.5	7706.5	7788.0	7948.0	8222.7	8572.8	8986.4	9061.8	9327.5	9523.7	9055.8
17.5°	7365.4	7368.4	7416.7	7555.6	7824.2	8198.5	8696.6	8799.2	9140.3	9424.1	8917.0
20°	7211.4	7199.4	7208.4	7277.9	7486.1	7827.2	8400.8	8533.6	8968.3	9354.7	8790.2
22.5°	7232.6	7214.5	7172.2	7163.1	7256.7	7516.3	8086.8	8249.8	8781.1	9312.4	8675.5
25°	7419.7	7380.5	7320.1	7229.6	7193.3	7323.1	7812.1	7981.2	8606.0	9315.4	8587.9
27.5°	7706.5	7664.2	7588.8	7468.0	7326.1	7271.8	7625.0	7785.0	8482.3	9384.8	8545.7
30°	8071.7	8038.5	7966.1	7821.2	7631.0	7407.7	7585.7	7718.6	8421.9	9526.7	8563.8
32.5°	8503.4	8479.3	8418.9	8286.1	8068.7	7727.6	7718.6	7821.2	8470.2	9732.0	8633.2
35°	8920.0	8929.0	8932.0	8859.6	8627.2	8213.6	8083.8	8120.0	8669.4	10039.9	8790.2
37.5°	9369.7	9348.6	9457.3	9508.6	9285.2	8844.5	8648.3	8651.3	9049.8	10495.7	9086.0
40°	9710.8	9716.9	9952.3	10163.6	10070.1	9644.4	9363.7	9360.7	9635.4	11120.5	9562.9
42.5°	10030.8	10070.1	10417.2	10779.4	10909.2	10531.9	10329.7	10254.2	10456.4	11965.7	10278.3
45°	10371.9	10429.3	10915.3	11431.4	11772.6	11549.2	11389.2	11419.4	11443.5	12949.8	11241.3
47.5°	10770.4	10806.6	11407.3	12134.8	12771.7	12714.4	12723.4	12687.2	12675.1	14190.5	12515.1
50°	11253.4	11337.9	12029.1	12898.5	13767.8	14148.2	14275.0	14290.1	14093.9	15542.8	13834.3
52.5°	12279.7	12382.3	12974.0	13734.6	14854.5	15654.5	16170.7	16068.0	15766.2	16852.9	15280.2
55°	13490.1	13568.6	14139.1	14927.0	16182.7	17305.7	18531.2	18488.9	17749.4	18232.4	16469.5
57.5°	13604.8	13692.4	14576.8	15784.3	17888.2	19346.2	20635.2	20771.0	19687.3	19210.4	17532.0
60°	12315.9	12494.0	13701.4	15325.4	18540.3	22090.1	22941.4	22968.5	21109.1	20203.5	18830.0
62.5°	9870.8	9955.4	11171.8	13290.9	17535.1	23690.0	26464.1	25890.6	22935.3	21740.0	20885.7
65°	5173.9	5518.0	6577.5	8923.0	14220.6	23131.6	30702.2	30545.2	26219.6	23940.5	22485.6
67.5°	3549.9	3546.9	3797.4	4651.7	8479.3	19916.7	32782.0	34508.7	30017.0	24695.2	21326.4
70°	2701.6	2710.7	2934.1	3489.5	4392.1	13257.7	30500.0	33452.2	30723.3	22422.2	17248.3
72.5°	1793.1	1811.2	2182.4	2819.4	3507.6	6499.1	23702.1	26766.0	25851.3	18009.0	12140.8
75°	1071.6	1086.7	1352.3	2049.6	3118.2	3637.4	15059.8	18504.0	17794.7	12412.5	6508.1
77.5°	440.7	452.8	694.3	1276.9	2282.1	2825.4	8328.3	12107.6	10658.7	4935.4	1778.0
80°	184.1	190.2	335.1	893.5	1645.1	1771.9	3857.8	5690.1	4367.9	1062.5	543.3
82.5°	66.4	69.4	123.8	492.0	1023.3	1334.2	1947.0	2248.9	1231.6	347.1	292.8
85°	3.0	3.0	30.2	166.0	389.4	377.3	1113.9	1077.6	407.5	144.9	175.1
87.5°	0.0	0.0	3.0	3.0	6.0	15.1	105.7	187.2	87.5	36.2	75.5
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°	9837.6	9837.6	9837.6	9837.6	9837.6	9837.6	9837.6	9837.6	9837.6	9837.6	9837.6
2.5°	9774.2	9614.3	9439.2	9276.2	9016.6	8862.6	8672.4	8587.9	8467.2	8437.0	8455.1
5°	9575.0	9300.3	8880.7	8500.4	8008.4	7612.9	7214.5	7045.4	6828.1	6683.2	6622.8
7.5°	9294.3	8935.1	8280.0	7588.8	6912.6	6191.2	5641.8	5279.5	4950.5	4769.4	4733.2
10°	9010.5	8542.6	7603.9	6613.8	5566.3	4703.0	3960.4	3411.0	2964.3	2762.0	2605.1
12.5°	8717.7	8135.1	6915.6	5623.7	4407.2	3229.9	2312.2	1778.0	1458.0	1331.2	1352.3
15°	8449.1	7742.7	6233.4	4633.6	3103.1	1950.0	1276.9	1077.6	1002.2	978.0	975.0
17.5°	8192.5	7371.4	5554.2	3670.6	2046.6	1195.4	978.0	929.7	908.6	896.5	896.5
20°	7960.1	7015.2	4890.1	2765.0	1322.1	947.8	884.5	860.3	842.2	833.1	833.1
22.5°	7742.7	6671.1	4241.1	1956.1	975.0	851.2	812.0	787.9	766.7	754.7	754.7
25°	7546.5	6360.2	3622.3	1346.3	839.2	778.8	736.5	709.4	673.1	652.0	652.0
27.5°	7404.6	6082.5	3027.7	981.0	757.7	700.3	652.0	615.8	576.6	552.4	546.4
30°	7320.1	5847.0	2427.0	806.0	682.2	624.9	570.5	525.2	480.0	455.8	452.8
32.5°	7271.8	5629.7	1877.6	703.3	618.8	552.4	492.0	443.7	398.5	371.3	368.3
35°	7289.9	5460.7	1406.7	633.9	558.4	489.0	422.6	374.3	335.1	310.9	304.9
37.5°	7446.9	5385.2	1056.5	579.6	507.1	434.7	365.3	320.0	283.7	265.6	262.6
40°	7751.8	5400.3	830.1	537.3	464.9	380.3	313.9	271.7	244.5	229.4	226.4
42.5°	8225.7	5527.1	685.2	501.1	419.6	332.0	271.7	238.5	211.3	196.2	193.2
45°	8932.0	5789.7	597.7	458.8	371.3	286.8	235.5	205.3	181.1	163.0	160.0
47.5°	9955.4	6245.5	540.3	419.6	329.0	247.5	202.2	172.1	150.9	135.8	132.8
50°	11045.1	6791.9	492.0	380.3	292.8	214.3	172.1	141.9	123.8	108.7	105.7
52.5°	12207.2	7380.5	455.8	344.1	259.6	184.1	144.9	117.7	99.6	84.5	81.5
55°	13324.1	7972.1	413.5	320.0	220.4	157.0	120.7	96.6	78.5	66.4	66.4
57.5°	14410.8	8515.5	368.3	280.7	181.1	132.8	99.6	78.5	63.4	54.3	51.3
60°	15708.8	9267.1	317.0	238.5	150.9	111.7	81.5	63.4	51.3	42.3	42.3
62.5°	17637.7	10048.9	271.7	199.2	126.8	93.6	66.4	51.3	42.3	36.2	33.2
65°	18268.6	9626.3	229.4	163.0	102.6	75.5	54.3	45.3	36.2	33.2	30.2
67.5°	16584.2	7890.6	190.2	132.8	84.5	63.4	48.3	39.2	33.2	30.2	27.2
70°	12940.8	5599.5	147.9	99.6	69.4	51.3	42.3	36.2	30.2	27.2	27.2
72.5°	8802.2	3311.4	117.7	75.5	57.4	45.3	36.2	33.2	30.2	27.2	24.1
75°	4334.7	1177.3	90.6	57.4	45.3	39.2	33.2	30.2	27.2	24.1	24.1
77.5°	1168.2	326.0	69.4	45.3	36.2	30.2	30.2	30.2	27.2	21.1	21.1
80°	395.4	135.8	51.3	33.2	30.2	24.1	21.1	27.2	24.1	21.1	18.1
82.5°	217.3	66.4	36.2	27.2	21.1	18.1	18.1	18.1	18.1	15.1	15.1
85°	138.9	36.2	24.1	21.1	21.1	15.1	12.1	12.1	9.1	9.1	9.1
87.5°	63.4	21.1	21.1	18.1	18.1	15.1	9.1	6.0	3.0	3.0	3.0
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)