

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: P640840

Luminaire Tested: GWS-SA5E-760-U-SL3-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P640840  
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-SA5E-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**

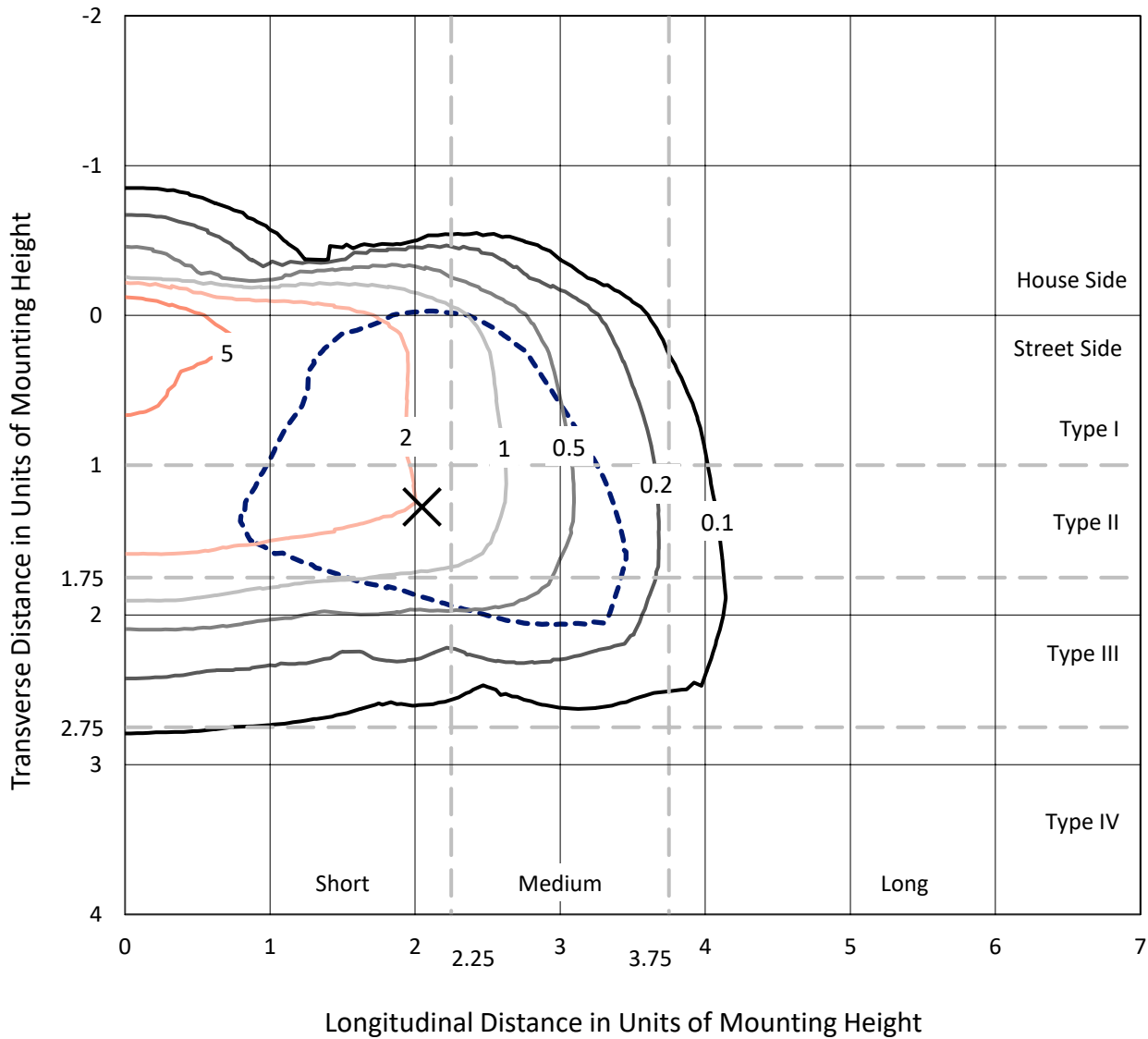
Lumens per Lamp: N/A  
Luminaire Lumens: 30675.4 lumens  
Efficiency: N/A  
Efficacy: 113.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 269.6  
Input Voltage (V): 120  
Input Current (Ain): 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

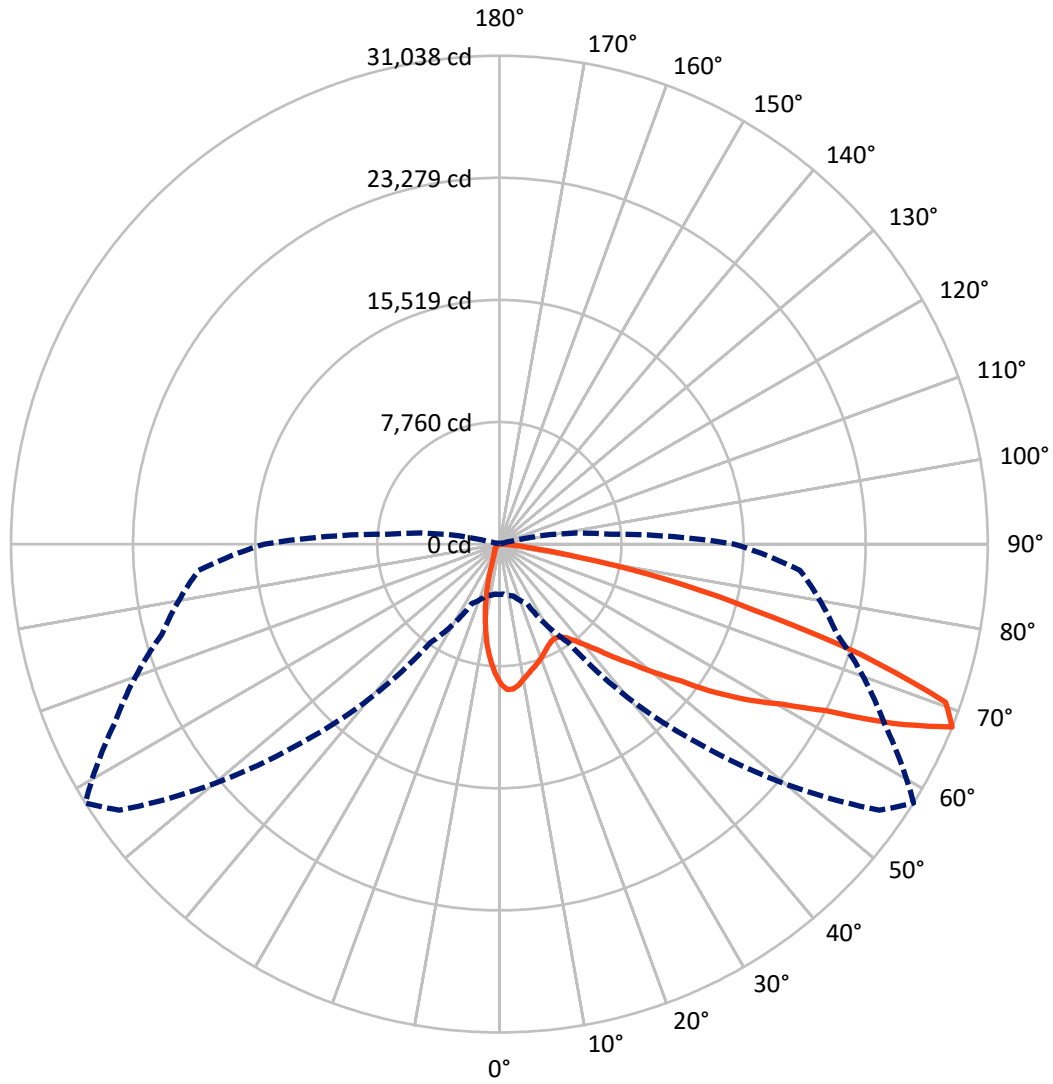
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.8 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	2996.8	0.0	2996.8
	% Fixture	9.8	0.0	9.8
<b>Street Side</b>	Lumens	27678.6	0.0	27678.6
	% Fixture	90.2	0.0	90.2
<b>Total</b>	Lumens	30675.4	0.0	30675.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	719.0	2.3
10°-20°	1496.7	4.9
20°-30°	2018.4	6.6
30°-40°	2836.3	9.2
40°-50°	4380.4	14.3
50°-60°	7004.8	22.8
60°-70°	8294.2	27.0
70°-80°	3669.1	12.0
80°-90°	256.5	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°	30675.4	100.0
0°-180°	30675.4	100.0

**Coefficient of Utilization**



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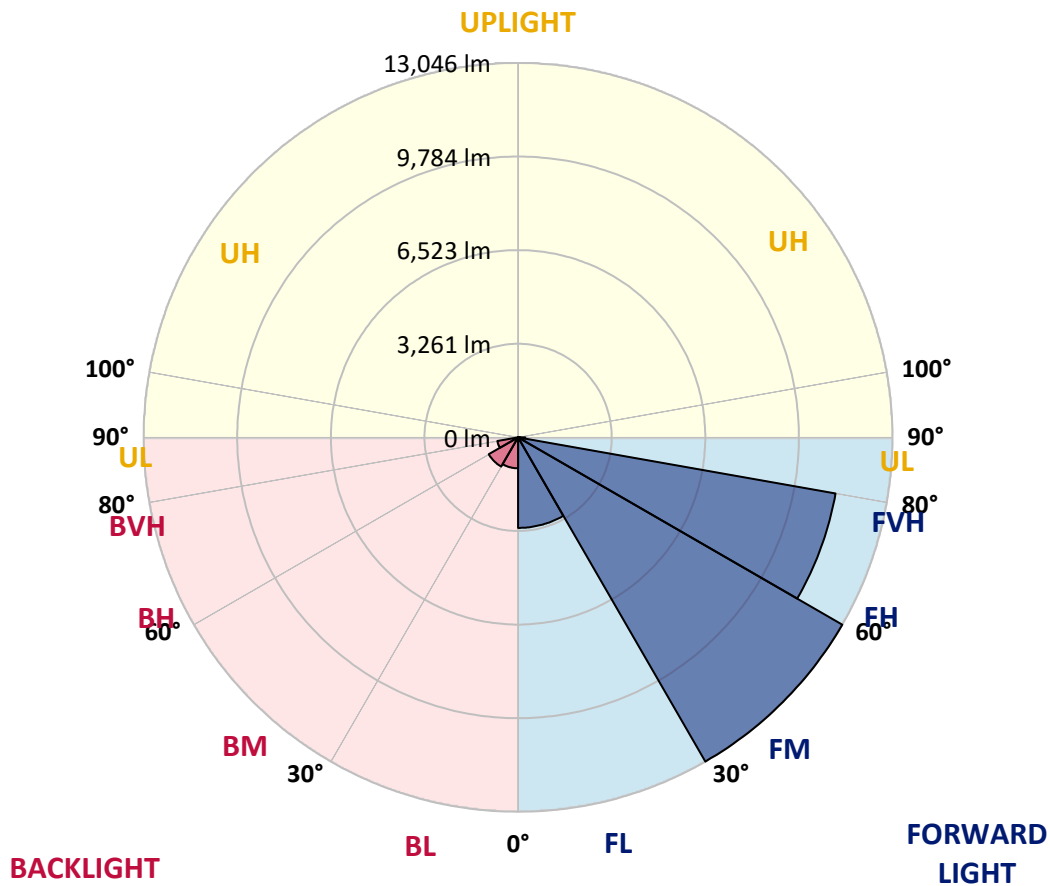
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3155.7	10.3			
FM (30°-60°)	13045.6	42.5			
FH (60°-80°)	11231.7	36.6			G4/12000
FVH (80°-90°)	245.6	0.8			G3/500
BL (0°-30°)	1078.4	3.5	B3/2500		
BM (30°-60°)	1175.8	3.8	B2/2500		
BH (60°-80°)	731.6	2.4	B2/1000		G2/1000
BVH (80°-90°)	10.9	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-G4**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	8848.2	8848.2	8848.2	8848.2	8848.2	8848.2	8848.2	8848.2	8848.2	8848.2	8848.2
2.5°	9307.1	9323.4	9345.1	9372.2	9366.8	9342.4	9312.5	9244.6	9201.2	9065.4	8899.8
5°	9008.4	9005.7	9060.0	9111.6	9203.9	9252.8	9320.6	9258.2	9236.5	9073.6	8804.8
7.5°	8424.7	8454.5	8517.0	8598.4	8731.5	8875.4	9038.3	9019.3	9084.4	8975.8	8641.9
10°	7851.8	7835.5	7933.3	8055.4	8259.1	8443.7	8679.9	8677.2	8848.2	8837.4	8457.3
12.5°	7349.5	7346.8	7422.8	7561.3	7800.2	8058.2	8378.5	8386.7	8598.4	8685.3	8299.8
15°	6926.0	6931.4	7004.7	7148.6	7395.7	7710.6	8082.6	8150.5	8389.4	8565.9	8145.0
17.5°	6624.6	6627.3	6670.8	6795.7	7037.3	7374.0	7822.0	7914.3	8221.1	8476.3	8020.1
20°	6486.2	6475.3	6483.4	6545.9	6733.2	7040.0	7555.9	7675.3	8066.3	8413.8	7906.1
22.5°	6505.2	6488.9	6450.9	6442.7	6526.9	6760.4	7273.5	7420.1	7898.0	8375.8	7802.9
25°	6673.5	6638.2	6583.9	6502.5	6469.9	6586.6	7026.5	7178.5	7740.5	8378.5	7724.2
27.5°	6931.4	6893.4	6825.5	6716.9	6589.3	6540.5	6858.1	7002.0	7629.2	8441.0	7686.2
30°	7259.9	7230.1	7164.9	7034.6	6863.6	6662.6	6822.8	6942.3	7574.9	8568.6	7702.5
32.5°	7648.2	7626.5	7572.2	7452.7	7257.2	6950.4	6942.3	7034.6	7618.3	8753.2	7764.9
35°	8022.9	8031.0	8033.7	7968.6	7759.5	7387.5	7270.8	7303.4	7797.5	9030.1	7906.1
37.5°	8427.4	8408.4	8506.1	8552.3	8351.4	7955.0	7778.5	7781.2	8139.6	9440.1	8172.2
40°	8734.2	8739.6	8951.4	9141.4	9057.3	8674.5	8422.0	8419.3	8666.3	10002.1	8601.2
42.5°	9022.0	9057.3	9369.5	9695.3	9812.1	9472.7	9290.8	9222.9	9404.8	10762.3	9244.6
45°	9328.8	9380.4	9817.5	10281.8	10588.5	10387.6	10243.7	10270.9	10292.6	11647.4	10110.7
47.5°	9687.2	9719.7	10260.0	10914.3	11487.2	11435.6	11443.8	11411.2	11400.3	12763.3	11256.4
50°	10121.6	10197.6	10819.3	11601.2	12383.2	12725.3	12839.3	12852.9	12676.4	13979.6	12442.9
52.5°	11044.7	11137.0	11669.1	12353.3	13360.6	14080.1	14544.3	14452.0	14180.5	15157.9	13743.4
55°	12133.4	12204.0	12717.1	13425.7	14555.2	15565.2	16667.5	16629.5	15964.3	16398.7	14813.1
57.5°	12236.6	12315.3	13110.8	14196.8	16089.2	17400.5	18559.8	18682.0	17707.3	17278.3	15768.8
60°	11077.3	11237.4	12323.4	13784.1	16675.6	19868.5	20634.1	20658.5	18986.1	18171.6	16936.2
62.5°	8878.1	8954.1	10048.3	11954.2	15771.5	21307.4	23802.5	23286.7	20628.7	19553.5	18785.2
65°	4653.5	4963.0	5916.0	8025.6	12790.4	20805.1	27614.4	27473.2	23582.6	21532.8	20224.1
67.5°	3192.9	3190.1	3415.5	4183.8	7626.5	17913.7	29485.0	31038.0	26998.1	22211.5	19181.6
70°	2429.9	2438.1	2639.0	3138.6	3950.3	11924.3	27432.5	30087.8	27633.4	20167.1	15513.6
72.5°	1612.7	1629.0	1963.0	2535.8	3154.8	5845.4	21318.3	24074.0	23251.4	16197.8	10919.8
75°	963.8	977.4	1216.3	1843.5	2804.6	3271.6	13545.2	16643.0	16005.0	11164.1	5853.6
77.5°	396.4	407.3	624.5	1148.5	2052.5	2541.3	7490.7	10889.9	9586.7	4439.0	1599.1
80°	165.6	171.0	301.4	803.6	1479.7	1593.7	3469.8	5117.8	3928.6	955.7	488.7
82.5°	59.7	62.4	111.3	442.5	920.4	1200.0	1751.2	2022.7	1107.7	312.2	263.4
85°	2.7	2.7	27.2	149.3	350.2	339.4	1001.8	969.3	366.5	130.3	157.5
87.5°	0.0	0.0	2.7	2.7	5.4	13.6	95.0	168.3	78.7	32.6	67.9
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°	8848.2	8848.2	8848.2	8848.2	8848.2	8848.2	8848.2	8848.2	8848.2	8848.2	8848.2
2.5°	8791.2	8647.3	8489.8	8343.2	8109.7	7971.3	7800.2	7724.2	7615.6	7588.5	7604.7
5°	8612.0	8365.0	7987.6	7645.5	7202.9	6847.3	6488.9	6336.8	6141.4	6011.0	5956.7
7.5°	8359.5	8036.4	7447.3	6825.5	6217.4	5568.5	5074.4	4748.6	4452.6	4289.7	4257.1
10°	8104.3	7683.5	6839.1	5948.6	5006.5	4230.0	3562.1	3068.0	2666.1	2484.2	2343.1
12.5°	7841.0	7317.0	6220.1	5058.1	3963.9	2905.1	2079.7	1599.1	1311.4	1197.3	1216.3
15°	7599.3	6964.0	5606.5	4167.5	2791.0	1753.9	1148.5	969.3	901.4	879.7	876.9
17.5°	7368.5	6630.1	4995.6	3301.5	1840.8	1075.1	879.7	836.2	817.2	806.4	806.4
20°	7159.5	6309.7	4398.3	2487.0	1189.2	852.5	795.5	773.8	757.5	749.3	749.3
22.5°	6964.0	6000.2	3814.6	1759.3	876.9	765.6	730.3	708.6	689.6	678.8	678.8
25°	6787.5	5720.5	3258.0	1210.9	754.8	700.5	662.5	638.0	605.4	586.4	586.4
27.5°	6659.9	5470.7	2723.2	882.4	681.5	629.9	586.4	553.9	518.6	496.8	491.4
30°	6583.9	5259.0	2182.9	724.9	613.6	562.0	513.1	472.4	431.7	410.0	407.3
32.5°	6540.5	5063.5	1688.7	632.6	556.6	496.8	442.5	399.1	358.4	333.9	331.2
35°	6556.8	4911.5	1265.2	570.2	502.3	439.8	380.1	336.7	301.4	279.6	274.2
37.5°	6697.9	4843.6	950.3	521.3	456.1	391.0	328.5	287.8	255.2	238.9	236.2
40°	6972.2	4857.2	746.6	483.3	418.1	342.1	282.4	244.4	219.9	206.3	203.6
42.5°	7398.4	4971.2	616.3	450.7	377.4	298.7	244.4	214.5	190.1	176.5	173.8
45°	8033.7	5207.4	537.6	412.7	333.9	257.9	211.8	184.6	162.9	146.6	143.9
47.5°	8954.1	5617.4	486.0	377.4	295.9	222.6	181.9	154.8	135.8	122.2	119.5
50°	9934.2	6108.8	442.5	342.1	263.4	192.8	154.8	127.6	111.3	97.7	95.0
52.5°	10979.5	6638.2	410.0	309.5	233.5	165.6	130.3	105.9	89.6	76.0	73.3
55°	11984.1	7170.3	372.0	287.8	198.2	141.2	108.6	86.9	70.6	59.7	59.7
57.5°	12961.5	7659.0	331.2	252.5	162.9	119.5	89.6	70.6	57.0	48.9	46.2
60°	14128.9	8335.1	285.1	214.5	135.8	100.5	73.3	57.0	46.2	38.0	38.0
62.5°	15863.8	9038.3	244.4	179.2	114.0	84.2	59.7	46.2	38.0	32.6	29.9
65°	16431.3	8658.2	206.3	146.6	92.3	67.9	48.9	40.7	32.6	29.9	27.2
67.5°	14916.3	7097.0	171.0	119.5	76.0	57.0	43.4	35.3	29.9	27.2	24.4
70°	11639.3	5036.3	133.0	89.6	62.4	46.2	38.0	32.6	27.2	24.4	24.4
72.5°	7917.0	2978.4	105.9	67.9	51.6	40.7	32.6	29.9	27.2	24.4	21.7
75°	3898.8	1058.9	81.5	51.6	40.7	35.3	29.9	27.2	24.4	21.7	21.7
77.5°	1050.7	293.2	62.4	40.7	32.6	27.2	27.2	27.2	24.4	19.0	19.0
80°	355.7	122.2	46.2	29.9	27.2	21.7	19.0	24.4	21.7	19.0	16.3
82.5°	195.5	59.7	32.6	24.4	19.0	16.3	16.3	16.3	16.3	13.6	13.6
85°	124.9	32.6	21.7	19.0	19.0	13.6	10.9	10.9	8.1	8.1	8.1
87.5°	57.0	19.0	19.0	16.3	16.3	13.6	8.1	5.4	2.7	2.7	2.7
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)