

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: P639810

Luminaire Tested: GWS-SA5C-750-U-T2-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639810
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-22)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5C-750-U-T2-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: (80) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18245.7 lumens
Efficiency: N/A
Efficacy: 115.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G3

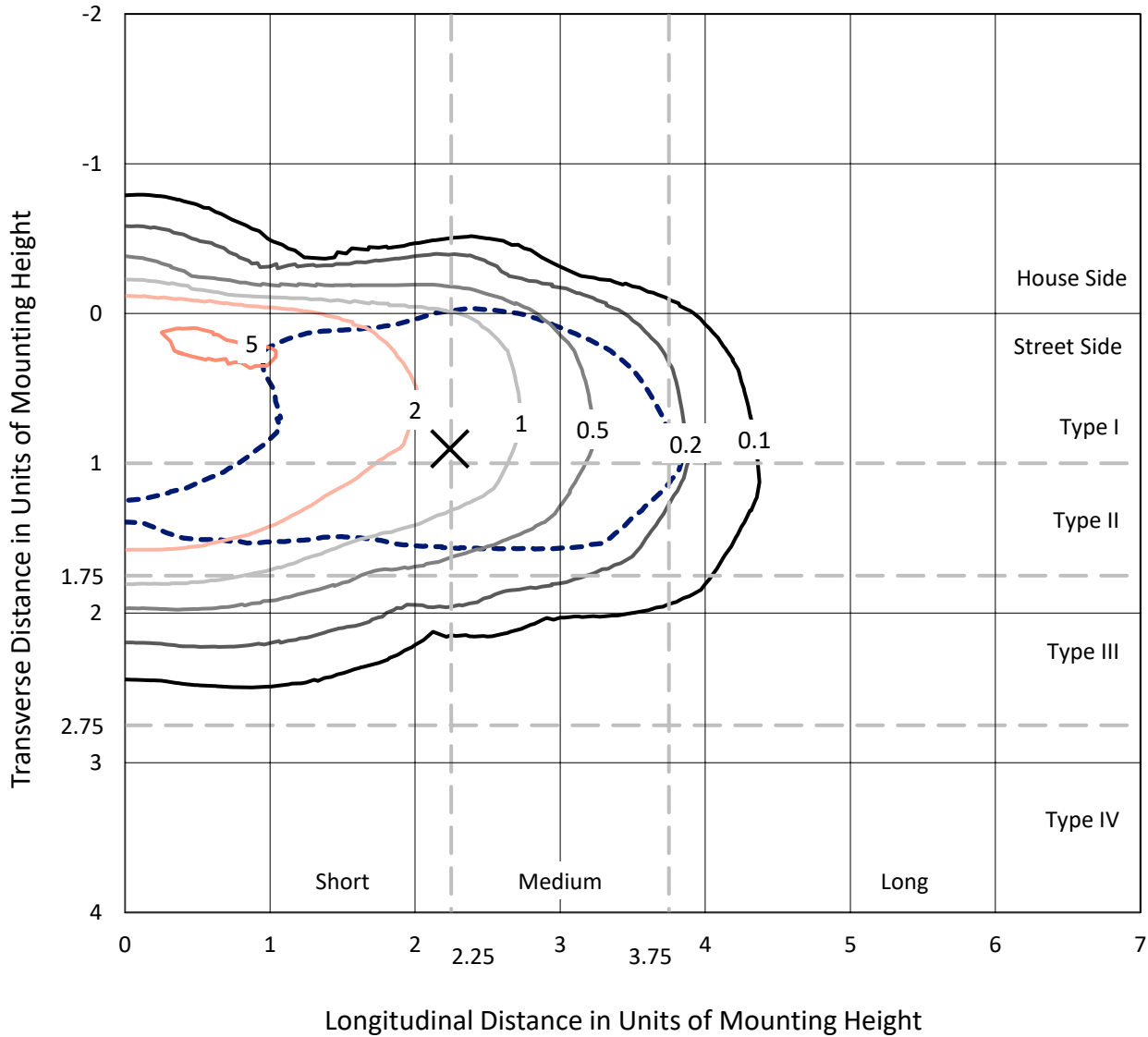
Input Watts (W): 157.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

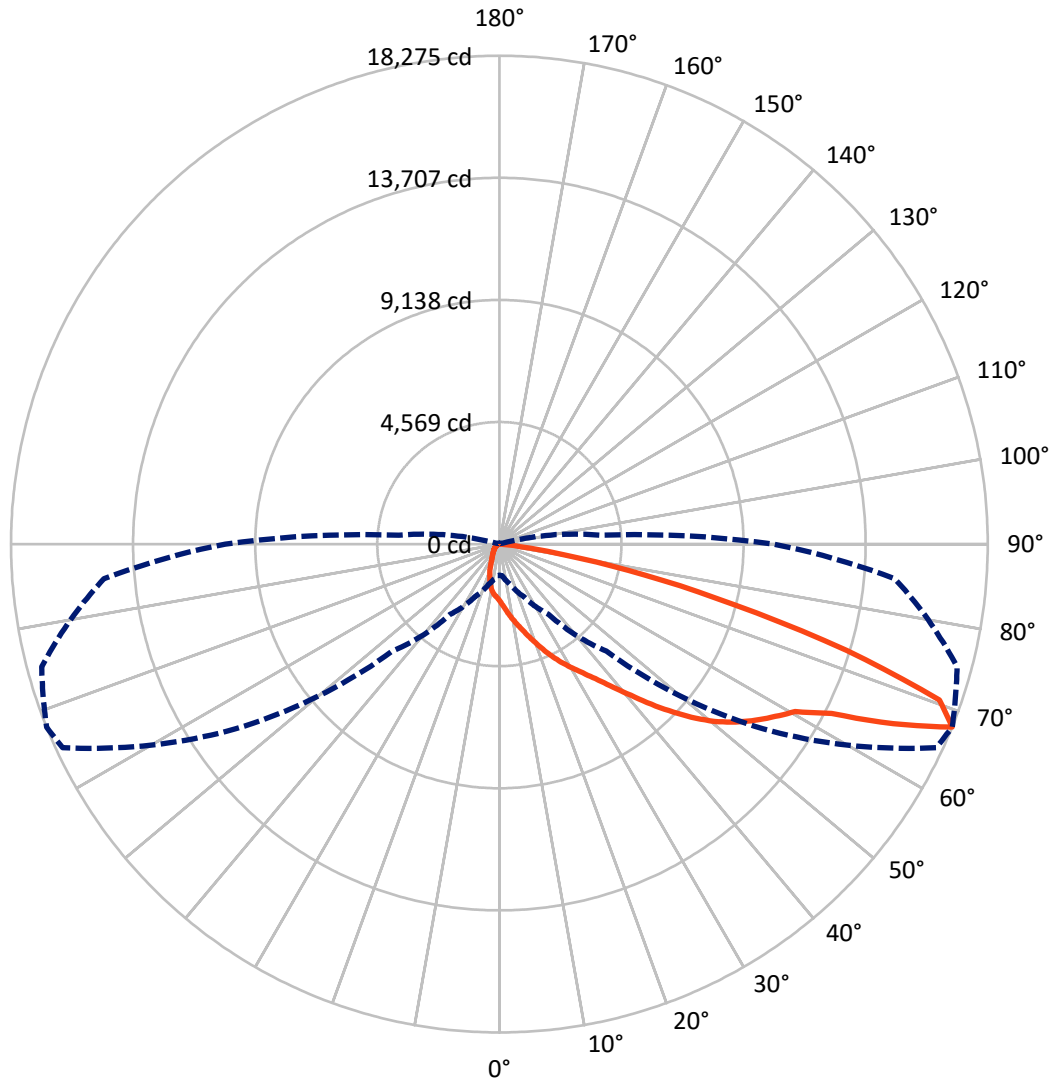
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 68-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1317.5	0.0	1317.5
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	16928.1	0.0	16928.1
	% Fixture	92.8	0.0	92.8
Total	Lumens	18245.7	0.0	18245.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	207.1	1.1
10°-20°	594.7	3.3
20°-30°	1022.0	5.6
30°-40°	1776.9	9.7
40°-50°	3100.4	17.0
50°-60°	4676.2	25.6
60°-70°	4689.1	25.7
70°-80°	2068.8	11.3
80°-90°	110.5	0.6
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°	18245.7	100.0
0°-180°	18245.7	100.0

Coefficient of Utilization



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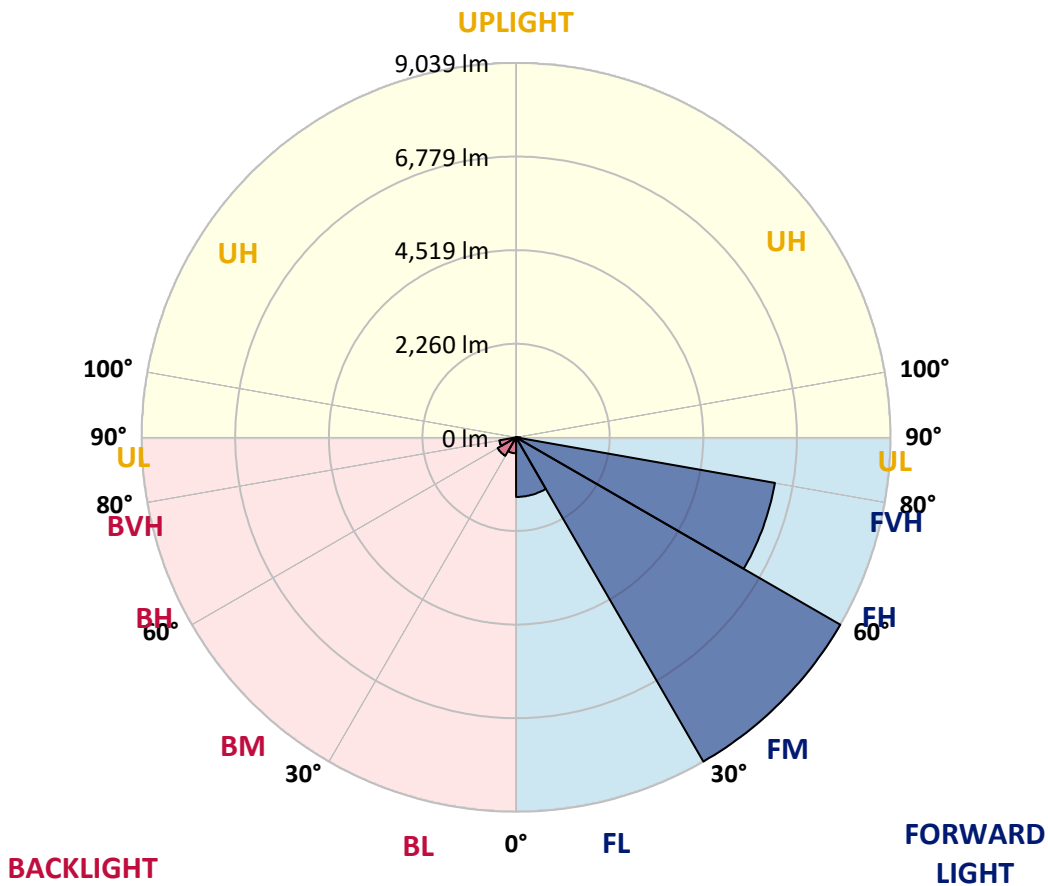
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1438.3	7.9			
FM (30°-60°)	9038.9	49.5			
FH (60°-80°)	6346.7	34.8			G3/7500
FVH (80°-90°)	104.3	0.6			G2/225
BL (0°-30°)	385.5	2.1	B1/500		
BM (30°-60°)	514.7	2.8	B1/1000		
BH (60°-80°)	411.2	2.3	B1/500		G1/500
BVH (80°-90°)	6.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	68°	75°	85°
0°	2123.3	2123.3	2123.3	2123.3	2123.3	2123.3	2123.3	2123.3	2123.3	2123.3	2123.3
2.5°	2472.6	2488.3	2472.6	2476.1	2430.7	2409.7	2364.3	2301.4	2285.7	2245.6	2184.5
5°	2774.7	2788.6	2772.9	2769.4	2717.0	2678.6	2603.5	2495.3	2463.8	2385.3	2264.8
7.5°	2938.8	2947.5	2952.8	2961.5	2942.3	2910.9	2842.8	2708.3	2675.1	2547.7	2378.3
10°	2956.3	2963.2	2989.4	3041.8	3080.2	3099.4	3061.0	2937.0	2884.7	2760.7	2518.0
12.5°	2907.4	2917.8	2959.7	3047.1	3153.6	3251.4	3275.8	3167.5	3120.4	2961.5	2682.1
15°	2842.8	2851.5	2909.1	3027.8	3188.5	3368.4	3469.6	3422.5	3370.1	3204.2	2863.7
17.5°	2743.2	2755.4	2835.8	2996.4	3204.2	3460.9	3679.2	3694.9	3658.2	3478.4	3064.5
20°	2687.3	2696.1	2767.7	2933.6	3193.7	3529.0	3874.7	4023.2	3983.0	3794.4	3295.0
22.5°	2734.5	2741.5	2788.6	2917.8	3158.8	3567.4	4056.3	4351.4	4328.7	4133.2	3537.7
25°	2982.4	3005.1	2977.2	2999.9	3174.5	3588.4	4203.0	4679.7	4685.0	4487.6	3789.2
27.5°	3485.3	3455.7	3389.3	3275.8	3296.8	3644.2	4328.7	4988.8	5034.2	4833.4	4012.7
30°	3997.0	3979.5	3939.3	3763.0	3616.3	3768.2	4435.3	5304.8	5376.4	5173.9	4211.7
32.5°	4571.5	4588.9	4517.3	4306.0	4056.3	4019.7	4545.3	5605.2	5739.6	5559.8	4445.7
35°	5257.7	5262.9	5121.5	4887.5	4604.6	4435.3	4742.6	5937.0	6184.9	6052.2	4758.3
37.5°	5926.5	5957.9	5881.1	5512.6	5261.2	4952.1	5069.1	6363.0	6712.3	6659.9	5151.2
40°	6518.4	6567.3	6542.9	6186.7	5856.6	5596.5	5575.5	6862.4	7349.6	7409.0	5669.8
42.5°	6989.9	7021.3	7040.5	6787.3	6495.7	6349.1	6200.6	7442.2	8102.2	8344.9	6305.4
45°	7487.6	7498.0	7538.2	7367.1	7112.1	7124.3	6939.3	8145.9	8895.0	9382.1	7035.3
47.5°	8121.4	8156.3	8137.1	7957.3	7726.8	7864.7	7702.3	8870.5	9677.2	10489.2	7782.7
50°	8893.2	8929.9	8912.4	8702.9	8446.2	8503.8	8402.5	9574.2	10431.6	11533.4	8404.3
52.5°	9291.3	9321.0	9537.5	9631.8	9497.4	9130.7	8999.7	10347.8	11068.9	12392.5	8975.3
55°	9099.3	9120.2	9591.7	9989.8	10482.2	10115.5	9600.4	10945.0	11631.2	13063.1	9399.6
57.5°	8303.0	8416.5	9057.4	9731.4	10766.8	11088.1	10574.8	11594.5	12172.5	13529.3	9816.9
60°	6670.3	6665.1	7583.6	8793.7	10211.6	11355.3	11950.7	12472.9	12715.6	13887.2	10375.7
62.5°	3686.2	3719.3	4941.6	6535.9	8668.0	10663.8	12982.7	13990.3	13953.6	14512.4	11250.5
65°	1835.2	1901.6	2565.1	3743.8	5767.6	8812.9	13160.8	16305.7	16200.9	15984.4	13057.8
67.5°	1164.7	1190.9	1557.6	2175.7	3206.0	5664.6	12052.0	18032.6	18275.4	17730.6	14851.1
70°	754.3	798.0	1082.6	1487.7	1934.7	2919.6	8828.6	16913.3	17470.4	17538.5	13733.6
72.5°	410.3	441.8	691.5	1061.7	1396.9	1459.8	4959.1	12692.9	13588.6	14877.3	10744.1
75°	234.0	256.7	378.9	721.2	1025.0	888.8	2198.4	8496.8	9067.8	10632.4	7698.8
77.5°	141.4	160.6	213.0	351.0	642.6	593.7	831.2	5172.1	5535.3	6343.8	4040.6
80°	64.6	76.8	134.5	193.8	351.0	281.1	317.8	2411.5	2490.0	2603.5	1337.6
82.5°	29.7	34.9	61.1	115.2	199.1	162.4	122.2	557.0	784.0	742.1	340.5
85°	3.5	3.5	22.7	47.1	55.9	41.9	50.6	125.7	158.9	223.5	97.8
87.5°	0.0	0.0	1.7	1.7	3.5	5.2	10.5	15.7	22.7	36.7	24.4
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°	2123.3	2123.3	2123.3	2123.3	2123.3	2123.3	2123.3	2123.3	2123.3	2123.3	2123.3
2.5°	2156.5	2107.6	2064.0	1999.4	1955.7	1906.8	1873.6	1833.5	1817.8	1805.5	1788.1
5°	2205.4	2126.8	2020.3	1901.6	1803.8	1711.2	1625.7	1569.8	1520.9	1513.9	1489.5
7.5°	2285.7	2168.7	1988.9	1795.1	1629.2	1475.5	1355.0	1257.2	1208.3	1192.6	1164.7
10°	2392.2	2231.6	1941.7	1644.9	1405.7	1222.3	1086.1	976.1	899.3	871.3	850.4
12.5°	2511.0	2289.2	1866.6	1459.8	1187.4	977.9	805.0	688.0	639.1	621.6	605.9
15°	2647.2	2343.4	1747.9	1274.7	974.4	719.4	597.2	546.5	525.6	520.4	515.1
17.5°	2778.1	2378.3	1606.5	1082.6	749.1	558.8	501.1	481.9	476.7	471.5	468.0
20°	2926.6	2402.7	1440.6	901.0	581.5	473.2	445.3	431.3	420.8	410.3	408.6
22.5°	3078.5	2402.7	1260.7	722.9	487.2	424.3	392.9	366.7	347.5	337.0	333.5
25°	3223.4	2369.5	1082.6	578.0	429.6	377.2	337.0	307.3	281.1	268.9	265.4
27.5°	3326.4	2284.0	927.2	488.9	389.4	335.3	286.4	253.2	232.2	220.0	218.3
30°	3391.1	2156.5	784.0	436.5	354.5	291.6	242.7	214.8	199.1	190.3	186.8
32.5°	3439.9	1999.4	656.6	399.9	321.3	253.2	211.3	188.6	174.6	167.6	165.9
35°	3537.7	1850.9	562.3	366.7	286.4	221.8	185.1	167.6	157.2	148.4	146.7
37.5°	3673.9	1727.0	487.2	337.0	253.2	197.3	167.6	151.9	143.2	134.5	132.7
40°	3874.7	1648.4	431.3	307.3	223.5	178.1	153.7	139.7	127.5	118.7	117.0
42.5°	4183.8	1611.7	394.6	277.6	197.3	160.6	141.4	124.0	111.8	103.0	101.3
45°	4552.2	1630.9	363.2	248.0	179.9	148.4	125.7	108.3	96.0	87.3	85.6
47.5°	4946.9	1699.0	337.0	220.0	162.4	136.2	111.8	92.5	82.1	73.3	71.6
50°	5359.0	1810.8	314.3	193.8	148.4	122.2	96.0	80.3	69.8	62.9	61.1
52.5°	5716.9	1962.7	291.6	174.6	136.2	108.3	83.8	69.8	59.4	52.4	50.6
55°	6059.2	2105.9	274.1	157.2	122.2	94.3	73.3	59.4	50.6	43.7	41.9
57.5°	6431.1	2257.8	253.2	141.4	110.0	83.8	64.6	50.6	43.7	36.7	34.9
60°	6972.4	2483.0	221.8	129.2	96.0	73.3	55.9	45.4	38.4	29.7	27.9
62.5°	7753.0	2893.4	186.8	111.8	82.1	62.9	47.1	38.4	31.4	24.4	21.0
65°	9212.8	3591.9	153.7	92.5	66.4	52.4	40.2	31.4	24.4	17.5	15.7
67.5°	10264.0	3773.5	124.0	75.1	54.1	40.2	33.2	24.4	17.5	12.2	10.5
70°	8973.5	2710.0	96.0	61.1	45.4	31.4	26.2	19.2	12.2	8.7	7.0
72.5°	6761.1	1770.6	71.6	47.1	34.9	26.2	19.2	15.7	10.5	7.0	5.2
75°	4765.3	1023.3	52.4	34.9	24.4	19.2	15.7	12.2	8.7	5.2	5.2
77.5°	2442.9	422.6	36.7	24.4	17.5	12.2	10.5	7.0	7.0	5.2	3.5
80°	742.1	139.7	21.0	15.7	12.2	8.7	5.2	5.2	5.2	3.5	1.7
82.5°	169.4	45.4	12.2	12.2	8.7	7.0	5.2	1.7	1.7	0.0	0.0
85°	43.7	14.0	10.5	8.7	8.7	7.0	3.5	1.7	0.0	0.0	0.0
87.5°	15.7	8.7	8.7	8.7	7.0	5.2	3.5	0.0	0.0	0.0	0.0
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)