

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: P639814

Luminaire Tested: GWS-SA5C-750-U-T2R-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639814
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-14)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5C-750-U-T2R-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: (80) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19644.4 lumens
Efficiency: N/A
Efficacy: 124.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

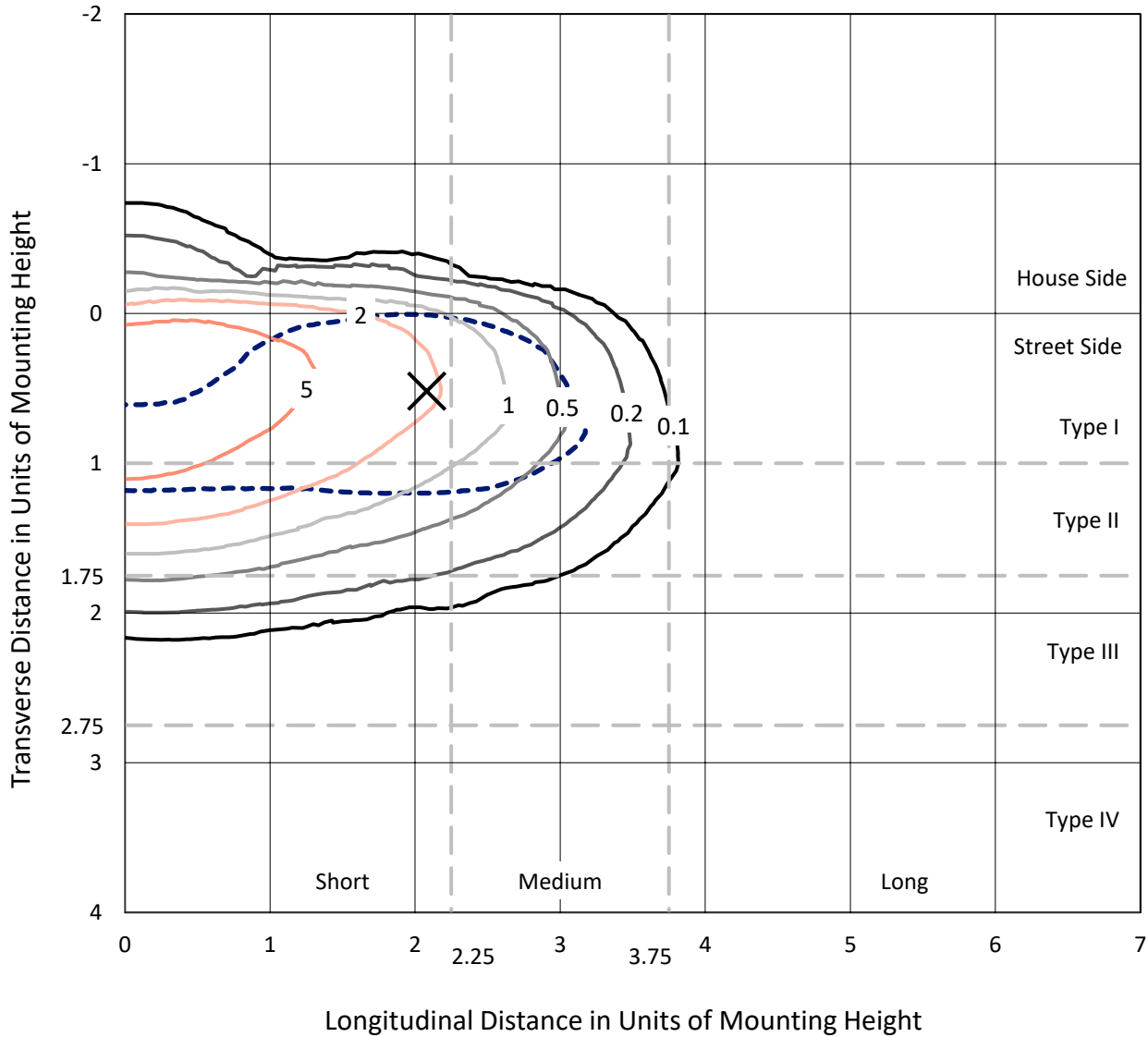
Input Watts (W): 157.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

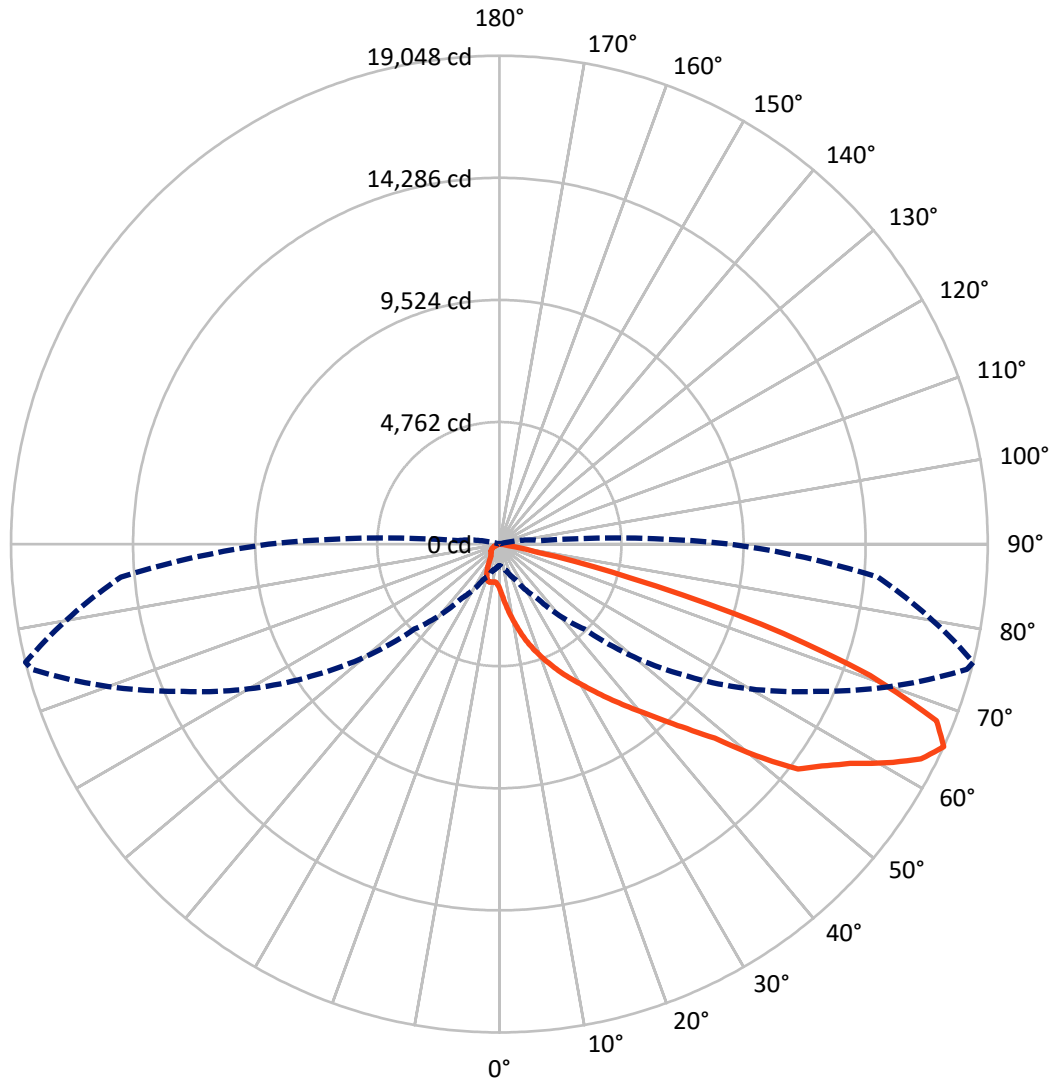
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1086.2	0.0	1086.2
	% Fixture	5.5	0.0	5.5
Street Side	Lumens	18558.2	0.0	18558.2
	% Fixture	94.5	0.0	94.5
Total	Lumens	19644.4	0.0	19644.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	211.6	1.1
10°-20°	802.9	4.1
20°-30°	1638.0	8.3
30°-40°	2913.2	14.8
40°-50°	4306.4	21.9
50°-60°	4930.5	25.1
60°-70°	3761.7	19.1
70°-80°	1053.7	5.4
80°-90°	26.5	0.1
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°	19644.4	100.0
0°-180°	19644.4	100.0

Coefficient of Utilization



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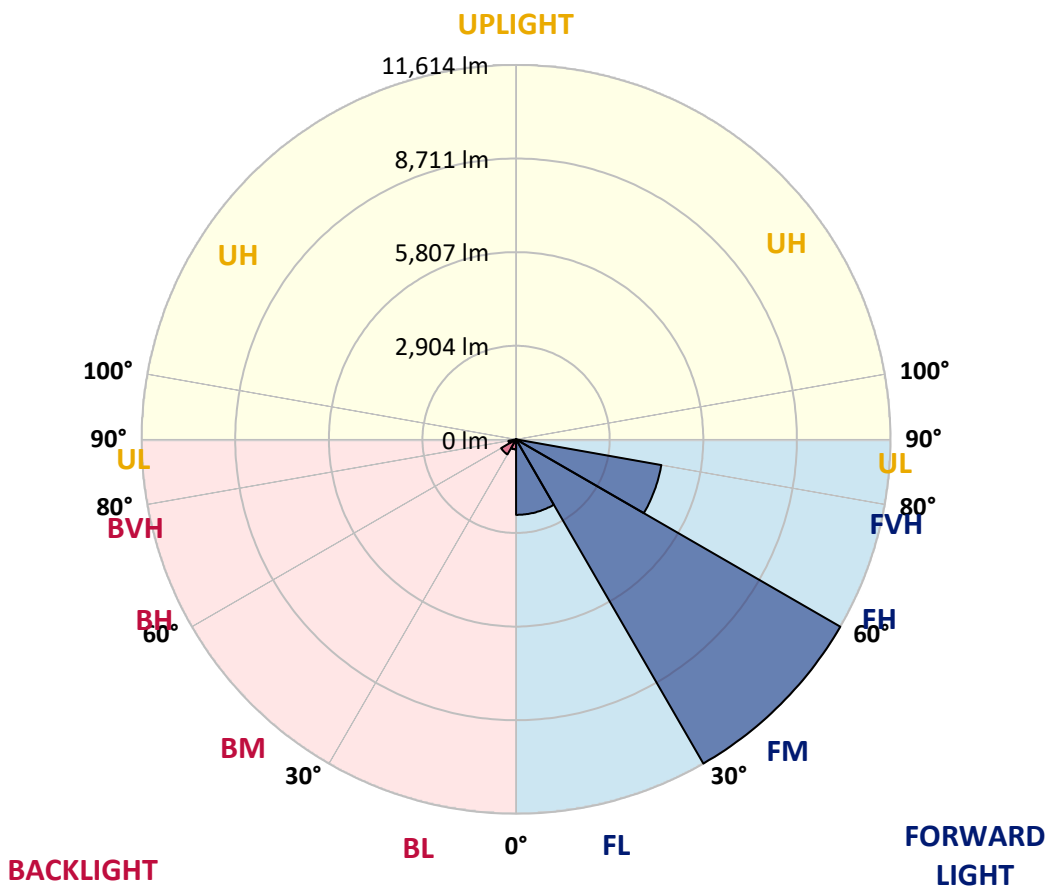
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2342.5	11.9			
FM (30°-60°)	11614.1	59.1			
FH (60°-80°)	4576.7	23.3			G2/5000
FVH (80°-90°)	25.0	0.1			G1/100
BL (0°-30°)	310.0	1.6	B1/500		
BM (30°-60°)	535.9	2.7	B1/1000		
BH (60°-80°)	238.8	1.2	B1/500		G1/500
BVH (80°-90°)	1.5	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-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1739.2	1739.2	1739.2	1739.2	1739.2	1739.2	1739.2	1739.2	1739.2	1739.2	1739.2
2.5°	2680.5	2720.6	2689.2	2636.8	2535.5	2437.7	2312.0	2139.1	2001.2	1983.7	1854.5
5°	3619.9	3616.4	3548.3	3480.2	3373.7	3206.1	2952.9	2631.6	2322.5	2296.3	2006.4
7.5°	4178.7	4184.0	4145.6	4093.2	3988.4	3815.5	3551.8	3164.2	2711.9	2659.5	2214.2
10°	4648.5	4646.7	4618.8	4594.3	4500.0	4384.8	4101.9	3675.8	3131.0	3048.9	2446.5
12.5°	5001.2	5013.4	5027.4	5051.8	5011.7	4898.2	4631.0	4166.5	3555.3	3464.5	2711.9
15°	5280.6	5284.1	5336.5	5430.8	5464.0	5404.6	5161.9	4641.5	3974.4	3895.8	3017.5
17.5°	5364.4	5371.4	5460.5	5633.3	5808.0	5841.1	5657.8	5119.9	4386.5	4302.7	3314.3
20°	5540.8	5556.5	5622.9	5774.8	5994.8	6172.9	6101.3	5603.7	4798.6	4688.6	3618.2
22.5°	6096.1	6104.8	6082.1	6101.3	6214.8	6420.9	6464.5	6071.6	5221.2	5104.2	3946.5
25°	7051.3	7054.8	6895.9	6745.7	6660.1	6698.5	6794.6	6503.0	5640.3	5525.1	4252.1
27.5°	8043.1	8055.4	7865.0	7610.1	7304.5	7129.9	7101.9	6897.6	6062.9	5935.4	4554.2
30°	8977.4	8977.4	8776.6	8465.7	8057.1	7716.6	7515.8	7295.8	6515.2	6375.5	4863.3
32.5°	9817.3	9810.3	9553.6	9216.6	8813.2	8439.5	8016.9	7711.4	7018.1	6862.7	5219.5
35°	10510.6	10493.1	10201.5	9878.4	9447.1	9169.5	8698.0	8158.4	7562.9	7407.5	5586.2
37.5°	11034.4	11015.2	10748.1	10405.8	10005.9	9826.0	9431.4	8694.5	8137.4	7996.0	5993.1
40°	11319.1	11280.7	11095.6	10840.6	10505.3	10348.2	10184.0	9359.8	8813.2	8636.9	6473.3
42.5°	11402.9	11357.5	11235.2	11116.5	10913.9	10790.0	10966.3	10110.7	9555.4	9403.5	7021.6
45°	11154.9	11128.7	11118.3	11203.8	11240.5	11275.4	11710.2	10941.9	10374.4	10259.1	7711.4
47.5°	10557.7	10550.7	10643.3	10999.5	11387.2	11755.6	12518.7	11966.9	11436.1	11312.1	8675.3
50°	9454.1	9525.7	9784.1	10409.3	11184.6	12028.0	13274.8	13388.4	13154.4	12972.7	9932.6
52.5°	7728.8	7866.8	8446.5	9396.5	10510.6	11951.2	13624.1	14526.9	14766.1	14577.5	10833.6
55°	6064.7	6193.9	6710.8	7915.7	9401.7	11366.2	13639.8	14919.8	15441.9	15267.3	11443.1
57.5°	4517.5	4636.2	5106.0	6258.5	7893.0	10215.5	13266.1	15138.1	16243.4	16131.7	12405.2
60°	2952.9	3069.9	3494.2	4501.8	6122.3	8539.1	12345.9	15092.7	17334.8	17324.4	13587.4
62.5°	1638.0	1730.5	2037.9	2823.7	4273.0	6613.0	10900.0	14636.9	18391.3	18457.7	14561.8
65°	838.2	897.6	1084.4	1552.4	2586.2	4688.6	8998.3	13592.7	18880.2	19047.9	14818.5
67.5°	548.3	567.5	612.9	806.8	1384.8	2949.4	6771.9	11918.0	18192.2	18387.8	13957.6
70°	445.3	461.0	487.2	537.8	714.2	1566.4	4447.6	9518.7	15200.9	15333.7	11114.8
72.5°	326.5	347.5	398.1	431.3	515.1	859.1	2313.8	6248.0	10439.0	10673.0	6984.9
75°	241.0	253.2	295.1	340.5	420.8	543.1	885.3	3284.7	5390.6	5254.4	2933.7
77.5°	144.9	153.7	188.6	218.3	300.4	338.8	309.1	1213.6	1639.7	1541.9	709.0
80°	71.6	80.3	124.0	164.1	192.1	136.2	129.2	338.8	365.0	365.0	178.1
82.5°	24.4	31.4	66.4	108.3	94.3	52.4	61.1	87.3	97.8	103.0	52.4
85°	0.0	0.0	15.7	31.4	14.0	7.0	15.7	19.2	24.4	26.2	17.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	5.2	7.0	7.0
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°	1739.2	1739.2	1739.2	1739.2	1739.2	1739.2	1739.2	1739.2	1739.2	1739.2	1739.2
2.5°	1784.6	1702.6	1578.6	1466.8	1381.3	1300.9	1239.8	1190.9	1182.2	1154.3	1157.8
5°	1865.0	1716.5	1487.8	1311.4	1187.4	1103.6	1033.8	981.4	958.7	936.0	918.5
7.5°	1989.0	1774.2	1452.9	1238.1	1093.1	963.9	855.7	768.3	726.4	700.2	682.8
10°	2140.9	1854.5	1454.6	1194.4	979.6	782.3	633.9	537.8	492.4	478.5	476.7
12.5°	2322.5	1955.8	1468.6	1122.8	815.5	581.5	469.7	426.1	412.1	399.9	399.9
15°	2514.6	2069.3	1468.6	991.9	621.7	454.0	406.9	378.9	361.5	354.5	351.0
17.5°	2717.1	2175.8	1433.7	812.0	476.7	399.9	361.5	335.3	321.3	310.8	307.3
20°	2933.7	2277.1	1346.3	621.7	408.6	358.0	321.3	295.1	281.1	270.7	270.7
22.5°	3153.7	2371.4	1204.9	478.5	361.5	317.8	282.9	258.4	244.5	234.0	234.0
25°	3358.0	2434.2	1023.3	394.6	326.5	282.9	251.5	227.0	211.3	204.3	200.8
27.5°	3548.3	2474.4	822.5	347.5	293.4	253.2	220.0	197.3	185.1	179.9	176.4
30°	3745.7	2484.9	628.6	316.1	265.4	223.5	192.1	174.6	164.1	157.2	157.2
32.5°	3937.8	2472.7	480.2	289.9	241.0	197.3	171.1	155.4	146.7	141.4	139.7
35°	4133.3	2416.8	389.4	267.2	216.5	172.9	151.9	139.7	134.5	127.5	127.5
37.5°	4346.4	2341.7	338.8	244.5	192.1	155.4	136.2	127.5	120.5	115.3	113.5
40°	4611.8	2254.4	310.8	225.3	169.4	139.7	122.2	113.5	108.3	103.0	101.3
42.5°	4926.1	2168.8	296.9	204.3	151.9	124.0	110.0	99.5	94.3	87.3	85.6
45°	5371.4	2149.6	281.1	181.6	136.2	111.8	96.0	85.6	78.6	73.3	71.6
47.5°	6087.4	2203.7	254.9	157.2	120.5	97.8	82.1	73.3	64.6	59.4	55.9
50°	6798.1	2189.8	228.8	136.2	106.5	83.8	69.8	61.1	52.4	47.1	45.4
52.5°	7185.7	2123.4	204.3	120.5	92.6	71.6	59.4	48.9	43.7	38.4	36.7
55°	7536.7	2097.2	179.9	104.8	78.6	62.9	48.9	40.2	36.7	31.4	29.7
57.5°	8224.7	2158.3	158.9	90.8	68.1	54.1	41.9	33.2	29.7	24.4	22.7
60°	8944.2	2165.3	136.2	78.6	59.4	45.4	33.2	26.2	22.7	17.5	15.7
62.5°	9319.6	1989.0	111.8	66.4	48.9	38.4	27.9	21.0	17.5	10.5	10.5
65°	9005.3	1608.3	94.3	54.1	38.4	29.7	21.0	15.7	10.5	5.2	1.7
67.5°	7969.8	1143.8	78.6	43.7	27.9	21.0	15.7	10.5	1.7	0.0	0.0
70°	5835.9	653.1	61.1	31.4	21.0	14.0	10.5	5.2	0.0	0.0	0.0
72.5°	3586.8	349.2	45.4	21.0	15.7	10.5	8.7	3.5	0.0	0.0	0.0
75°	1360.3	167.6	27.9	14.0	12.2	8.7	5.2	1.7	0.0	0.0	0.0
77.5°	368.5	82.1	15.7	10.5	8.7	5.2	3.5	0.0	0.0	0.0	0.0
80°	96.0	38.4	10.5	7.0	5.2	3.5	0.0	0.0	0.0	0.0	0.0
82.5°	33.2	17.5	5.2	5.2	3.5	1.7	0.0	0.0	0.0	0.0	0.0
85°	14.0	7.0	3.5	3.5	1.7	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.2	1.7	1.7	1.7	1.7	0.0	0.0	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)