

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: P643744

Luminaire Tested: GWS-SA6F-750-U-AFL-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P643744
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-48)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SAGF-750-U-AFL-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: (96) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42693.4 lumens
Efficiency: N/A
Efficacy: 114.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

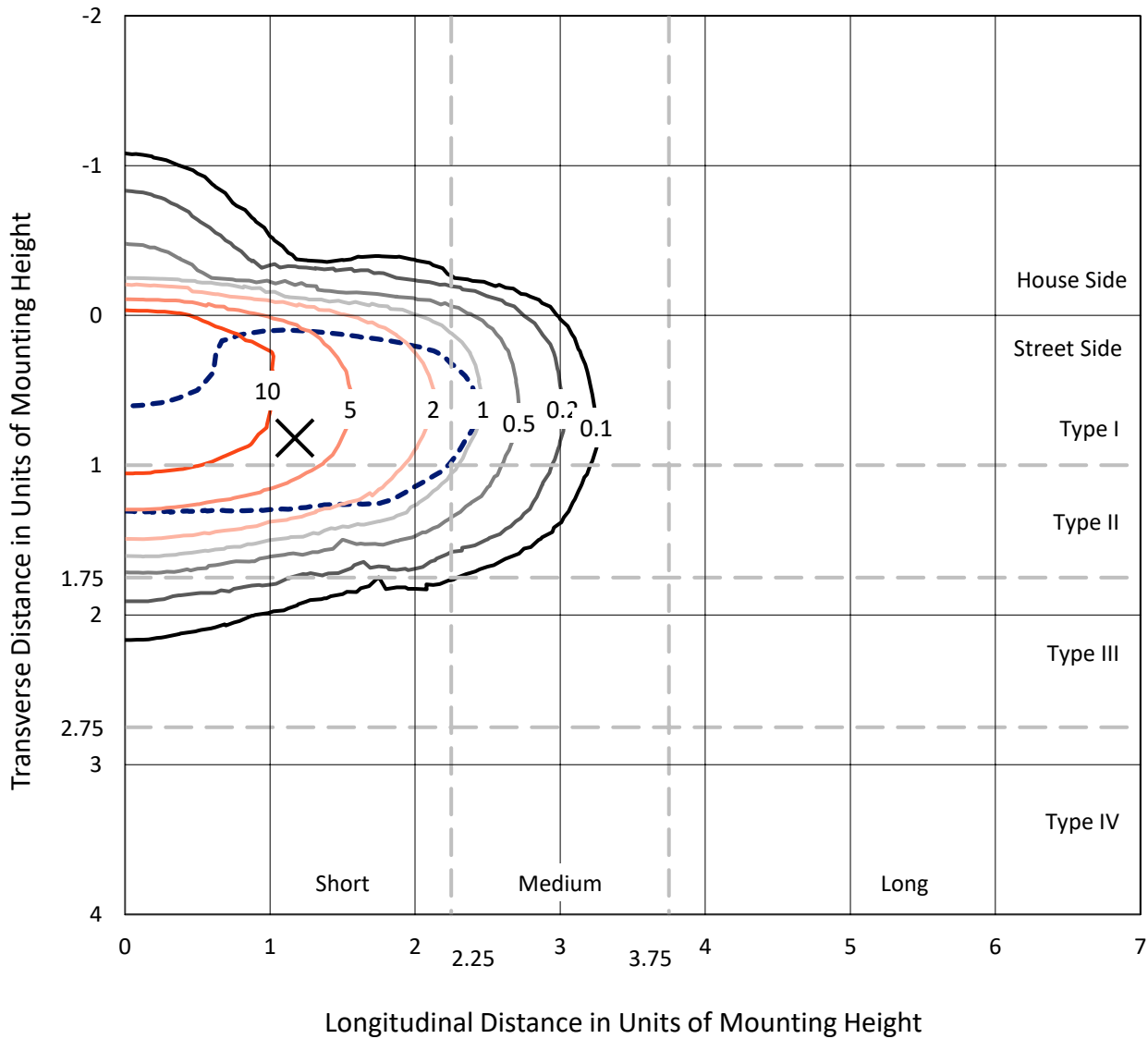
Input Watts (W): 372.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

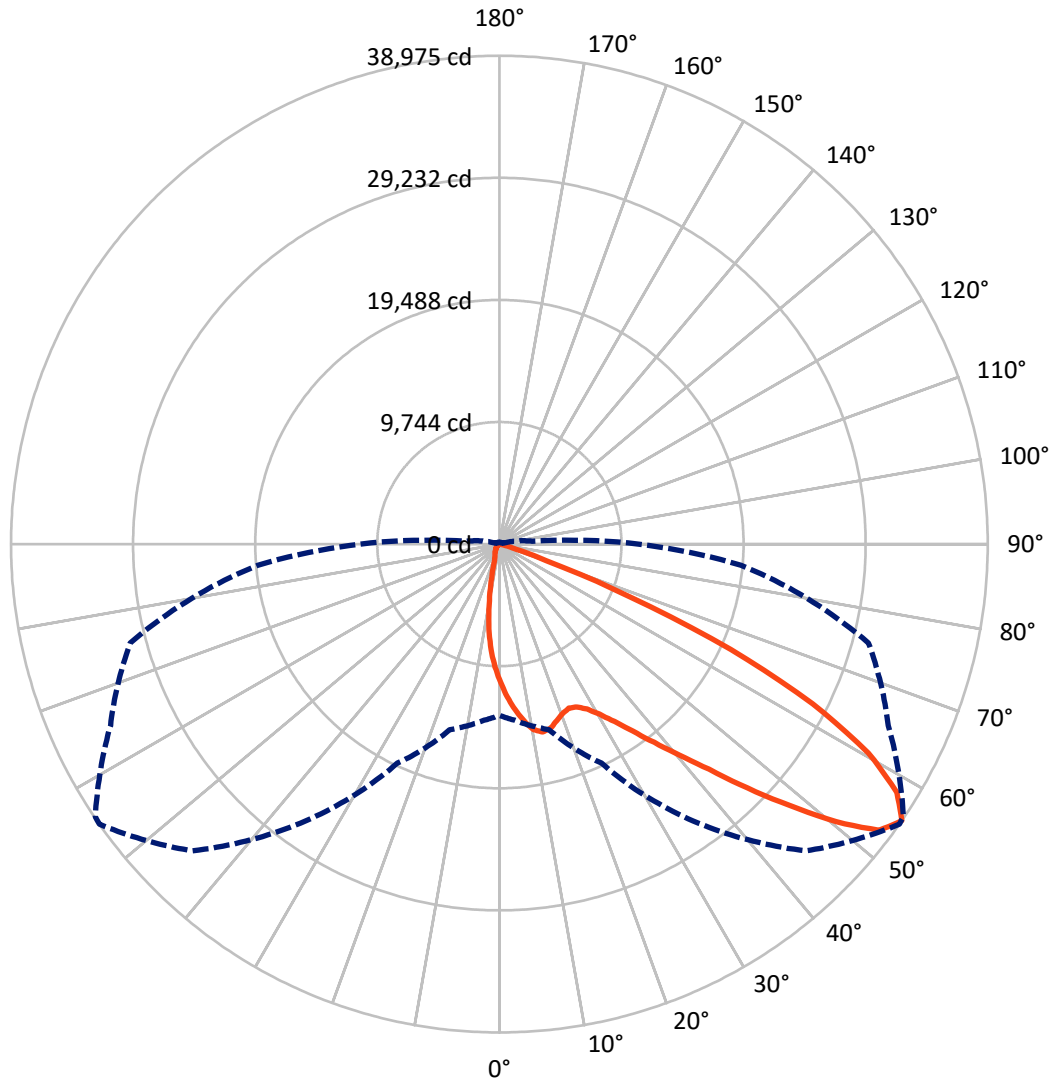
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 16.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2634.3	0.0	2634.3
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	40059.0	0.0	40059.0
	% Fixture	93.8	0.0	93.8
Total	Lumens	42693.4	0.0	42693.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	974.7	2.3
10°-20°	2350.0	5.5
20°-30°	3913.6	9.2
30°-40°	6669.1	15.6
40°-50°	10886.3	25.5
50°-60°	11397.4	26.7
60°-70°	5748.6	13.5
70°-80°	726.1	1.7
80°-90°	27.6	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°	42693.4	100.0
0°-180°	42693.4	100.0

Coefficient of Utilization



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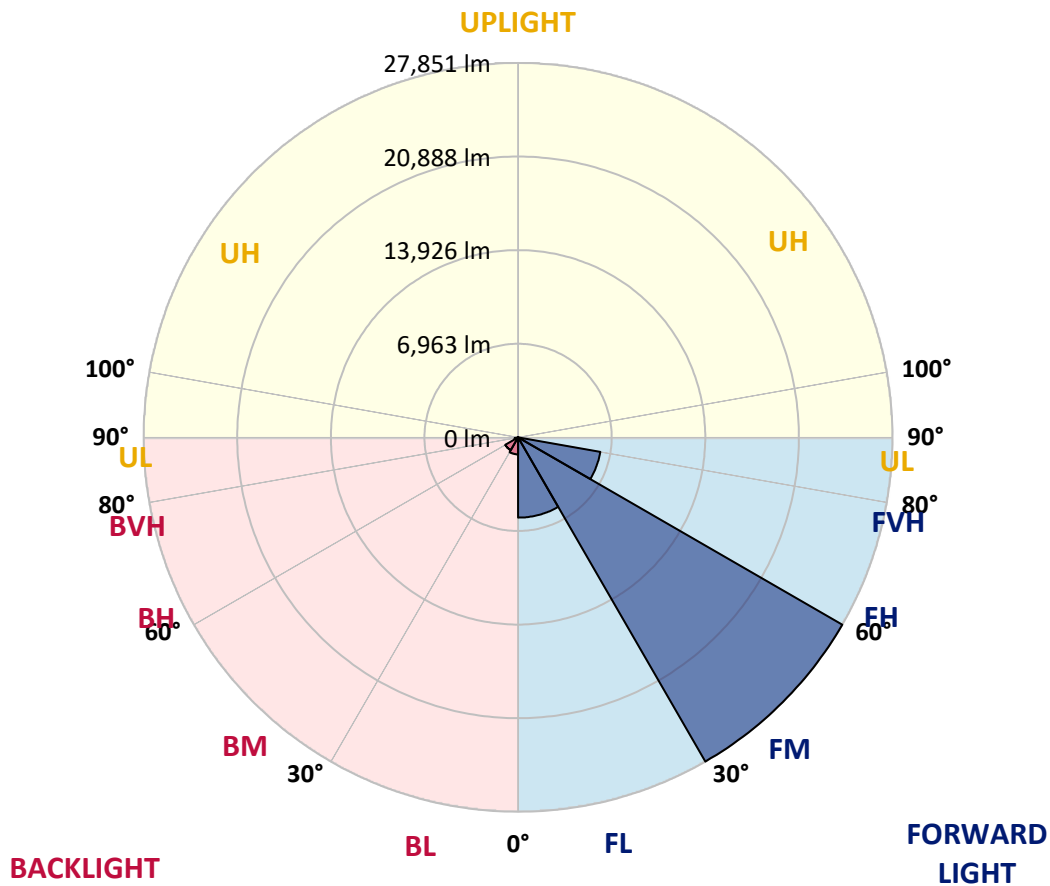
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5972.2	14.0			
FM (30°-60°)	27851.3	65.2			
FH (60°-80°)	6210.5	14.5			G3/7500
FVH (80°-90°)	25.1	0.1			G1/100
BL (0°-30°)	1266.2	3.0	B3/2500		
BM (30°-60°)	1101.4	2.6	B2/2500		
BH (60°-80°)	264.2	0.6	B1/500		G1/500
BVH (80°-90°)	2.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	11029.5	11029.5	11029.5	11029.5	11029.5	11029.5	11029.5	11029.5	11029.5	11029.5	11029.5
2.5°	12858.0	12795.9	12890.8	12781.3	12595.2	12438.3	12233.9	12160.9	11832.4	11522.2	11222.9
5°	14420.1	14438.3	14409.1	14255.8	13993.1	13701.1	13288.7	13197.4	12624.4	12033.1	11394.4
7.5°	14806.9	14796.0	14858.0	14916.4	14872.6	14726.6	14277.7	14186.5	13474.8	12587.9	11657.2
10°	13613.5	13620.8	13748.5	14142.7	14631.8	15139.1	15069.7	15018.6	14321.5	13215.7	11949.2
12.5°	11927.3	11993.0	12128.0	12690.1	13518.6	14671.9	15387.2	15438.3	15098.9	13905.5	12292.3
15°	11197.4	11212.0	11321.5	11660.9	12277.7	13701.1	15252.2	15394.5	15748.6	14598.9	12664.6
17.5°	11179.1	11197.4	11244.8	11394.4	11795.9	12938.3	14817.9	15066.1	16237.6	15343.5	13109.8
20°	11865.3	11854.3	11821.5	11741.2	11916.4	12686.4	14416.4	14690.1	16504.1	16069.7	13558.7
22.5°	13109.8	13095.2	12949.2	12617.1	12474.8	12916.4	14219.3	14467.5	16664.7	16715.7	13927.4
25°	14544.2	14646.4	14372.6	13869.0	13518.6	13504.0	14394.5	14569.7	16803.3	17288.8	14179.2
27.5°	16117.2	16150.0	15916.5	15350.8	14843.4	14445.6	14901.8	15033.2	16956.6	17799.7	14321.5
30°	17843.5	17832.6	17566.1	16909.2	16292.4	15719.4	15755.9	15807.0	17314.3	18383.7	14478.5
32.5°	20000.5	20047.9	19573.5	18679.3	17938.4	17146.4	16872.7	16880.0	17960.3	19135.5	14715.7
35°	22931.2	22814.4	22186.7	20912.9	19650.1	18796.1	18328.9	18288.8	18956.7	20146.5	15128.1
37.5°	25723.3	25734.2	25077.3	23675.8	22080.8	20734.1	20073.5	19964.0	20358.2	21548.0	15814.3
40°	27661.3	27697.8	27424.0	26690.5	25000.6	23095.5	22124.6	22011.5	22175.7	23321.8	16712.1
42.5°	28686.9	28789.0	28865.7	29037.2	27756.2	26044.4	24551.7	24540.8	24369.2	25343.7	17752.3
45°	28727.0	28880.3	29347.5	30519.0	30665.0	29409.5	27785.4	27540.8	26880.2	27508.0	18683.0
47.5°	27139.4	27493.4	28486.1	30807.3	32340.2	32756.3	31146.8	30997.1	29143.1	29219.7	19380.0
50°	23438.5	23807.2	25635.7	29329.2	32763.6	35413.3	34836.6	34526.4	31033.6	30351.1	19715.8
52.5°	19642.8	19978.6	21219.5	25810.9	31008.1	36249.1	37946.2	37577.6	32730.7	30745.3	19577.1
55°	13668.2	14117.1	15328.9	19292.5	26964.2	34621.3	38975.4	38898.8	34245.4	30497.1	19361.8
57.5°	6700.9	7146.2	8354.2	11894.5	19975.0	30227.0	37402.4	37807.5	35150.5	30230.7	19186.6
60°	2799.3	2981.8	3397.9	5219.1	11175.5	22843.6	33851.2	34413.3	34595.8	29869.4	19168.4
62.5°	1624.1	1653.3	1697.1	2164.3	4346.8	13095.2	28081.0	28880.3	31679.6	29391.2	18880.0
65°	1226.3	1237.3	1219.0	1328.5	1795.7	4967.3	20288.8	21376.4	26442.3	27522.6	17741.3
67.5°	1007.3	1007.3	959.9	981.8	1127.8	1861.4	11201.0	12719.3	19566.2	22621.0	14650.0
70°	802.9	821.2	799.3	770.1	806.6	1029.2	3985.5	4941.7	11394.4	13358.0	8544.0
72.5°	609.5	609.5	646.0	624.1	598.6	646.0	1390.5	1562.1	4573.1	5569.5	3084.0
75°	470.8	485.4	511.0	489.1	452.6	383.2	667.9	708.0	1379.6	1295.7	689.8
77.5°	240.9	244.5	324.8	357.7	335.8	233.6	292.0	321.2	448.9	401.5	255.5
80°	146.0	153.3	182.5	281.0	222.6	124.1	120.4	127.7	211.7	182.5	105.8
82.5°	62.0	65.7	102.2	102.2	91.2	47.4	47.4	47.4	102.2	94.9	43.8
85°	0.0	0.0	18.2	14.6	14.6	18.2	18.2	18.2	25.5	36.5	21.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.6	10.9	10.9
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°	11029.5	11029.5	11029.5	11029.5	11029.5	11029.5	11029.5	11029.5	11029.5	11029.5	11029.5
2.5°	11029.5	10795.9	10482.0	10197.3	9814.1	9598.8	9299.5	9055.0	8846.9	8781.2	8752.0
5°	11033.1	10631.7	9960.1	9288.6	8463.7	7814.1	7146.2	6617.0	6182.6	6043.9	6007.5
7.5°	11106.1	10514.9	9427.2	8208.2	6828.6	5689.9	4671.7	3759.2	3335.9	3193.5	3164.3
10°	11204.7	10416.3	8810.4	6912.6	4930.8	3467.2	2456.3	1872.3	1594.9	1441.6	1463.5
12.5°	11332.4	10336.0	8127.9	5511.1	3262.9	1905.2	1350.4	1131.4	1073.0	1043.8	1029.2
15°	11503.9	10241.1	7281.2	4120.5	2000.1	1226.3	1040.2	981.8	959.9	945.3	941.6
17.5°	11679.1	10131.6	6419.9	2897.9	1328.5	1018.3	934.3	905.1	890.5	879.6	875.9
20°	11865.3	9945.5	5408.9	1996.4	1047.5	916.1	861.3	828.5	810.2	792.0	788.3
22.5°	11945.6	9646.2	4441.7	1397.8	930.7	843.1	773.7	733.6	711.7	697.1	697.1
25°	11868.9	9160.8	3441.7	1062.1	846.7	762.8	693.4	649.7	631.4	616.8	616.8
27.5°	11664.5	8536.7	2511.0	879.6	755.5	678.8	613.2	573.0	558.4	551.1	551.1
30°	11438.2	7748.4	1770.1	755.5	653.3	591.3	536.5	511.0	507.3	500.0	500.0
32.5°	11244.8	7011.1	1219.0	664.3	576.7	514.6	478.1	467.2	470.8	463.5	467.2
35°	11139.0	6288.5	905.1	591.3	514.6	456.2	438.0	438.0	438.0	434.3	434.3
37.5°	11182.8	5576.8	737.2	540.2	459.9	416.1	397.8	405.1	412.4	412.4	412.4
40°	11401.7	4945.4	653.3	492.7	412.4	379.6	365.0	375.9	386.9	394.2	394.2
42.5°	11679.1	4434.4	591.3	452.6	379.6	343.1	335.8	346.7	357.7	365.0	365.0
45°	11854.3	3919.8	529.2	401.5	346.7	302.9	302.9	317.5	313.9	317.5	317.5
47.5°	11934.6	3511.0	467.2	346.7	295.6	262.8	266.4	273.7	266.4	273.7	273.7
50°	11737.5	3098.6	412.4	288.3	244.5	229.9	237.2	233.6	233.6	248.2	248.2
52.5°	11376.2	2792.0	365.0	244.5	208.0	204.4	211.7	197.1	200.7	200.7	197.1
55°	11109.8	2616.9	324.8	211.7	178.8	182.5	178.8	153.3	138.7	124.1	120.4
57.5°	10978.4	2547.5	295.6	189.8	160.6	160.6	146.0	105.8	80.3	62.0	54.7
60°	10949.2	2463.6	266.4	164.2	142.3	135.0	105.8	62.0	40.1	29.2	25.5
62.5°	10671.8	2259.2	240.9	131.4	124.1	109.5	65.7	36.5	21.9	14.6	10.9
65°	9763.0	1857.7	215.3	102.2	94.9	80.3	40.1	21.9	10.9	3.6	0.0
67.5°	7766.6	1317.6	189.8	76.6	65.7	51.1	25.5	14.6	3.6	0.0	0.0
70°	4478.2	711.7	156.9	54.7	43.8	32.8	18.2	7.3	0.0	0.0	0.0
72.5°	1496.4	332.1	120.4	36.5	32.8	25.5	10.9	3.6	0.0	0.0	0.0
75°	328.5	197.1	80.3	25.5	21.9	18.2	7.3	0.0	0.0	0.0	0.0
77.5°	124.1	138.7	40.1	18.2	14.6	10.9	3.6	0.0	0.0	0.0	0.0
80°	47.4	91.2	18.2	10.9	10.9	3.6	0.0	0.0	0.0	0.0	0.0
82.5°	25.5	36.5	10.9	7.3	7.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	14.6	18.2	7.3	3.6	3.6	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.3	3.6	3.6	3.6	0.0	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)