

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: P643664

Luminaire Tested: GWS-SA6F-735-U-T2R-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P643664
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-SAGF-735-U-T2R-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: (96) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39588.5 lumens
Efficiency: N/A
Efficacy: 106.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G4

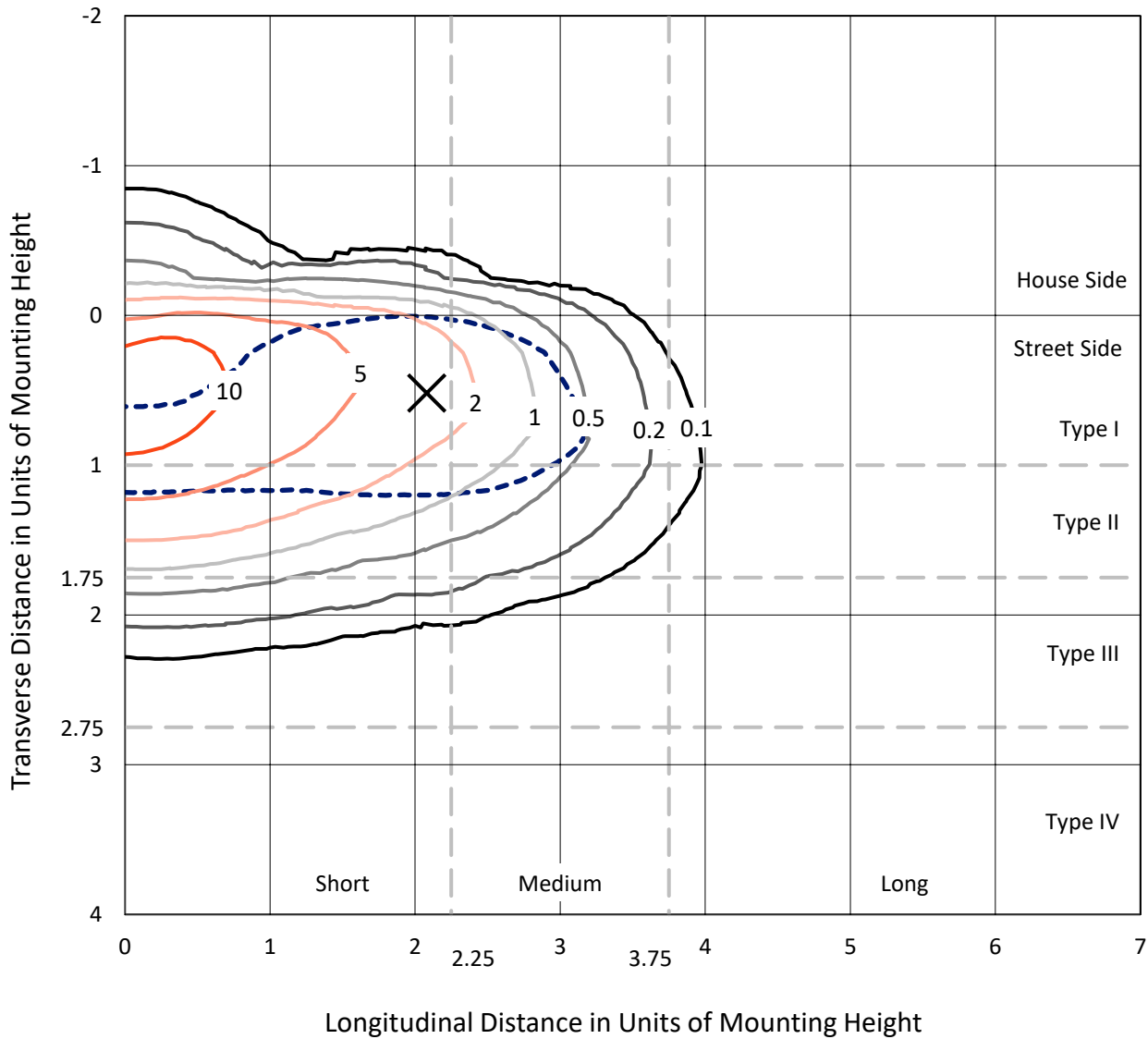
Input Watts (W): 372.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P643664
 CATALOG NUMBER: GWS-SA6F-735-U-T2R-W-HSS

Iso-Footcandle Lines of Horizontal Illumination

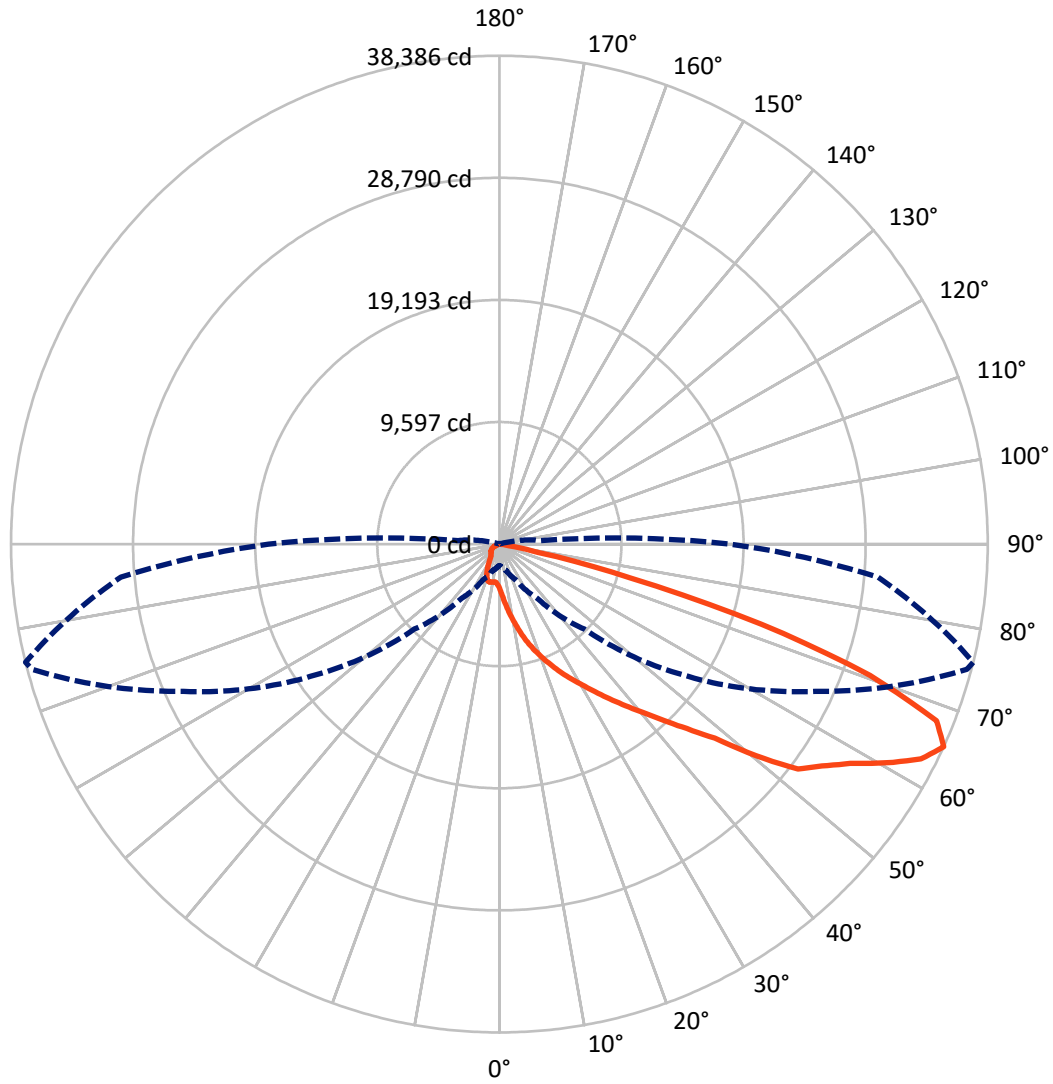
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 13.2 fc
 Type II - Short - N/A

REPORT NUMBER: P643664
CATALOG NUMBER: GWS-SA6F-735-U-T2R-W-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P643664
 CATALOG NUMBER: GWS-SA6F-735-U-T2R-W-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2189.0	0.0	2189.0
	% Fixture	5.5	0.0	5.5
Street Side	Lumens	37399.5	0.0	37399.5
	% Fixture	94.5	0.0	94.5
Total	Lumens	39588.5	0.0	39588.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	426.4	1.1
10°-20°	1618.0	4.1
20°-30°	3300.9	8.3
30°-40°	5870.8	14.8
40°-50°	8678.4	21.9
50°-60°	9936.1	25.1
60°-70°	7580.8	19.1
70°-80°	2123.5	5.4
80°-90°	53.4	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°	39588.5	100.0
0°-180°	39588.5	100.0

Coefficient of Utilization



REPORT NUMBER: P643664

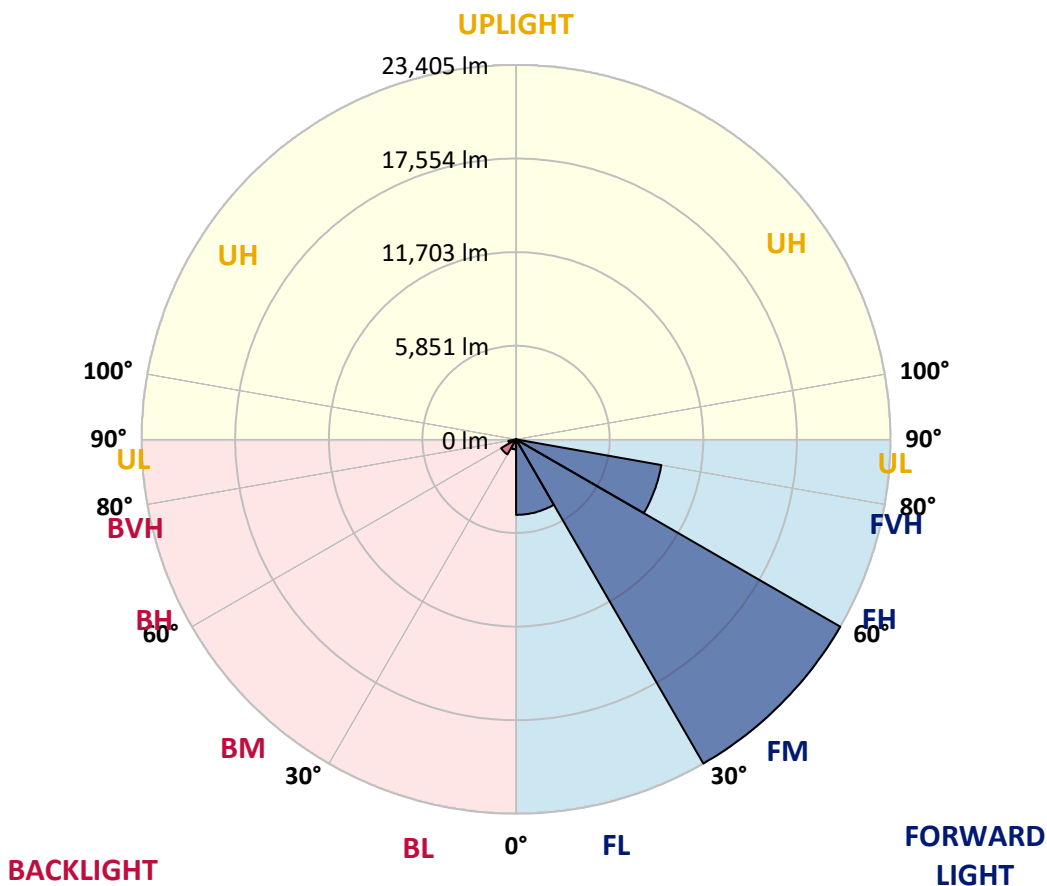
CATALOG NUMBER: GWS-SA6F-735-U-T2R-W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4720.6	11.9			
FM (30°-60°)	23405.4	59.1			
FH (60°-80°)	9223.1	23.3			G4/12000
FVH (80°-90°)	50.3	0.1			G1/100
BL (0°-30°)	624.7	1.6	B2/1000		
BM (30°-60°)	1080.0	2.7	B2/2500		
BH (60°-80°)	481.2	1.2	B1/500		G1/500
BVH (80°-90°)	3.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type II Short





REPORT NUMBER: P643664

CATALOG NUMBER: GWS-SA6F-735-U-T2R-W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3505.0	3505.0	3505.0	3505.0	3505.0	3505.0	3505.0	3505.0	3505.0	3505.0	3505.0
2.5°	5401.8	5482.8	5419.4	5313.8	5109.7	4912.7	4659.3	4310.9	4032.9	3997.7	3737.3
5°	7295.1	7288.1	7150.8	7013.6	6798.9	6461.1	5950.8	5303.3	4680.4	4627.6	4043.4
7.5°	8421.2	8431.8	8354.3	8248.8	8037.6	7689.2	7157.9	6376.6	5465.2	5359.6	4462.2
10°	9367.9	9364.3	9308.0	9258.8	9068.7	8836.5	8266.4	7407.7	6309.8	6144.4	4930.3
12.5°	10078.7	10103.3	10131.5	10180.8	10099.8	9871.1	9332.7	8396.6	7164.9	6981.9	5465.2
15°	10641.8	10648.8	10754.4	10944.4	11011.3	10891.6	10402.5	9353.8	8009.5	7851.1	6081.0
17.5°	10810.7	10824.8	11004.2	11352.6	11704.5	11771.4	11401.9	10318.0	8840.0	8671.1	6679.3
20°	11166.1	11197.8	11331.5	11637.7	12081.1	12440.0	12295.7	11292.8	9670.5	9448.8	7291.6
22.5°	12285.2	12302.8	12257.0	12295.7	12524.5	12939.7	13027.7	12235.9	10522.1	10286.3	7953.2
25°	14210.1	14217.2	13896.9	13594.3	13421.9	13499.3	13692.8	13105.1	11366.7	11134.4	8569.0
27.5°	16209.0	16233.6	15850.0	15336.2	14720.4	14368.5	14312.2	13900.5	12218.3	11961.4	9177.8
30°	18091.7	18091.7	17687.0	17060.6	16237.1	15550.9	15146.2	14702.8	13129.8	12848.2	9800.7
32.5°	19784.4	19770.3	19253.0	18573.8	17760.9	17007.8	16156.2	15540.4	14143.3	13830.1	10518.6
35°	21181.5	21146.3	20558.6	19907.6	19038.3	18478.8	17528.7	16441.2	15241.2	14928.0	11257.6
37.5°	22237.2	22198.5	21660.1	20970.3	20164.5	19802.0	19006.7	17521.6	16399.0	16114.0	12077.6
40°	22810.8	22733.4	22360.4	21846.6	21170.9	20854.2	20523.4	18862.4	17760.9	17405.5	13045.3
42.5°	22979.7	22888.2	22641.9	22402.6	21994.4	21744.5	22100.0	20375.6	19256.5	18950.4	14150.3
45°	22480.0	22427.2	22406.1	22578.6	22652.5	22722.8	23599.1	22050.7	20907.0	20674.7	15540.4
47.5°	21276.5	21262.4	21448.9	22166.8	22948.1	23690.6	25228.4	24116.4	23046.6	22796.7	17482.9
50°	19052.4	19196.7	19717.5	20977.4	22539.9	24239.6	26752.2	26981.0	26509.4	26143.4	20016.7
52.5°	15575.5	15853.6	17021.9	18936.3	21181.5	24084.7	27456.0	29275.4	29757.5	29377.5	21832.5
55°	12221.8	12482.3	13523.9	15952.1	18946.8	22905.8	27487.7	30067.2	31119.4	30767.5	23060.7
57.5°	9103.9	9343.2	10289.9	12612.5	15906.3	20586.8	26734.6	30507.1	32734.7	32509.5	24999.7
60°	5950.8	6186.6	7041.7	9072.2	12338.0	17208.4	24880.1	30415.6	34934.1	34913.0	27382.1
62.5°	3300.9	3487.4	4106.8	5690.4	8611.2	13326.8	21966.2	29497.1	37063.2	37196.9	29345.8
65°	1689.2	1808.8	2185.4	3128.5	5211.8	9448.8	18133.9	27392.7	38048.5	38386.4	29863.1
67.5°	1105.0	1143.7	1235.2	1625.8	2790.6	5943.8	13647.1	24017.9	36662.0	37056.2	28128.2
70°	897.4	929.0	981.8	1083.9	1439.3	3156.6	8963.2	19182.6	30633.8	30901.2	22399.1
72.5°	658.1	700.3	802.4	869.2	1038.1	1731.4	4662.8	12591.3	21037.2	21508.8	14076.4
75°	485.6	510.3	594.7	686.2	848.1	1094.4	1784.2	6619.4	10863.5	10589.0	5912.1
77.5°	292.1	309.7	380.1	439.9	605.3	682.7	622.9	2445.8	3304.4	3107.4	1428.8
80°	144.3	161.9	249.9	330.8	387.1	274.5	260.4	682.7	735.5	735.5	358.9
82.5°	49.3	63.3	133.7	218.2	190.0	105.6	123.2	176.0	197.1	207.6	105.6
85°	0.0	0.0	31.7	63.3	28.2	14.1	31.7	38.7	49.3	52.8	35.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5	10.6	14.1	14.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P643664

CATALOG NUMBER: GWS-SA6F-735-U-T2R-W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3505.0	3505.0	3505.0	3505.0	3505.0	3505.0	3505.0	3505.0	3505.0	3505.0	3505.0
2.5°	3596.5	3431.1	3181.3	2956.0	2783.6	2621.7	2498.6	2400.0	2382.4	2326.1	2333.2
5°	3758.4	3459.3	2998.3	2642.8	2393.0	2224.1	2083.3	1977.7	1932.0	1886.2	1851.0
7.5°	4008.3	3575.4	2927.9	2495.0	2203.0	1942.5	1724.4	1548.4	1463.9	1411.2	1376.0
10°	4314.4	3737.3	2931.4	2407.1	1974.2	1576.6	1277.4	1083.9	992.4	964.2	960.7
12.5°	4680.4	3941.4	2959.6	2262.8	1643.4	1171.9	946.6	858.7	830.5	805.9	805.9
15°	5067.5	4170.1	2959.6	1998.9	1252.8	915.0	820.0	763.6	728.5	714.4	707.3
17.5°	5475.7	4384.8	2889.2	1636.4	960.7	805.9	728.5	675.7	647.5	626.4	619.4
20°	5912.1	4588.9	2713.2	1252.8	823.5	721.4	647.5	594.7	566.6	545.5	545.5
22.5°	6355.5	4778.9	2428.2	964.2	728.5	640.5	570.1	520.8	492.7	471.6	471.6
25°	6767.2	4905.6	2062.2	795.3	658.1	570.1	506.8	457.5	425.8	411.7	404.7
27.5°	7150.8	4986.6	1657.5	700.3	591.2	510.3	443.4	397.7	373.0	362.5	355.4
30°	7548.5	5007.7	1266.9	637.0	534.9	450.4	387.1	351.9	330.8	316.7	316.7
32.5°	7935.6	4983.0	967.8	584.2	485.6	397.7	344.9	313.2	295.6	285.0	281.5
35°	8329.7	4870.4	784.8	538.4	436.4	348.4	306.2	281.5	271.0	256.9	256.9
37.5°	8759.0	4719.1	682.7	492.7	387.1	313.2	274.5	256.9	242.8	232.3	228.7
40°	9294.0	4543.2	626.4	454.0	341.4	281.5	246.3	228.7	218.2	207.6	204.1
42.5°	9927.4	4370.7	598.2	411.7	306.2	249.9	221.7	200.6	190.0	176.0	172.4
45°	10824.8	4332.0	566.6	366.0	274.5	225.2	193.6	172.4	158.4	147.8	144.3
47.5°	12267.6	4441.1	513.8	316.7	242.8	197.1	165.4	147.8	130.2	119.6	112.6
50°	13699.9	4413.0	461.0	274.5	214.7	168.9	140.8	123.2	105.6	95.0	91.5
52.5°	14481.1	4279.2	411.7	242.8	186.5	144.3	119.6	98.5	88.0	77.4	73.9
55°	15188.4	4226.4	362.5	211.1	158.4	126.7	98.5	80.9	73.9	63.3	59.8
57.5°	16575.0	4349.6	320.2	183.0	137.2	109.1	84.5	66.9	59.8	49.3	45.7
60°	18024.8	4363.7	274.5	158.4	119.6	91.5	66.9	52.8	45.7	35.2	31.7
62.5°	18781.5	4008.3	225.2	133.7	98.5	77.4	56.3	42.2	35.2	21.1	21.1
65°	18148.0	3241.1	190.0	109.1	77.4	59.8	42.2	31.7	21.1	10.6	3.5
67.5°	16061.2	2305.0	158.4	88.0	56.3	42.2	31.7	21.1	3.5	0.0	0.0
70°	11760.8	1316.1	123.2	63.3	42.2	28.2	21.1	10.6	0.0	0.0	0.0
72.5°	7228.2	703.8	91.5	42.2	31.7	21.1	17.6	7.0	0.0	0.0	0.0
75°	2741.4	337.8	56.3	28.2	24.6	17.6	10.6	3.5	0.0	0.0	0.0
77.5°	742.5	165.4	31.7	21.1	17.6	10.6	7.0	0.0	0.0	0.0	0.0
80°	193.6	77.4	21.1	14.1	10.6	7.0	0.0	0.0	0.0	0.0	0.0
82.5°	66.9	35.2	10.6	10.6	7.0	3.5	0.0	0.0	0.0	0.0	0.0
85°	28.2	14.1	7.0	7.0	3.5	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	10.6	3.5	3.5	3.5	3.5	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)