

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: P636319

Luminaire Tested: GWS-SA3F-750-U-AFL-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P636319  
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-SA3F-750-U-AFL-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND  
AUTOMOTIVE FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (48) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

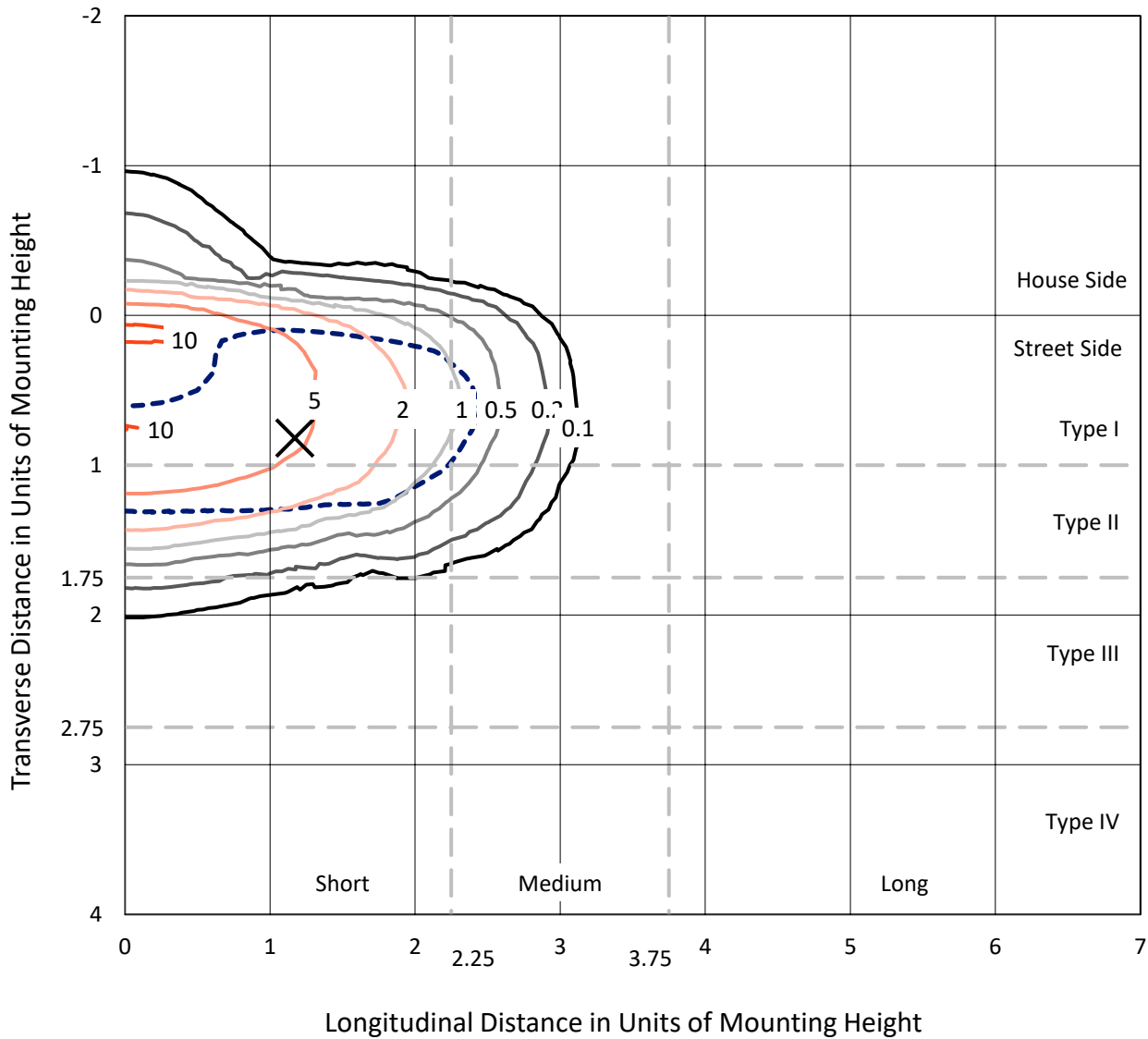
Lumens per Lamp: N/A  
Luminaire Lumens: 20974 lumens  
Efficiency: N/A  
Efficacy: 114.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 183.2  
Input Voltage (V): 120  
Input Current (Ain): 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

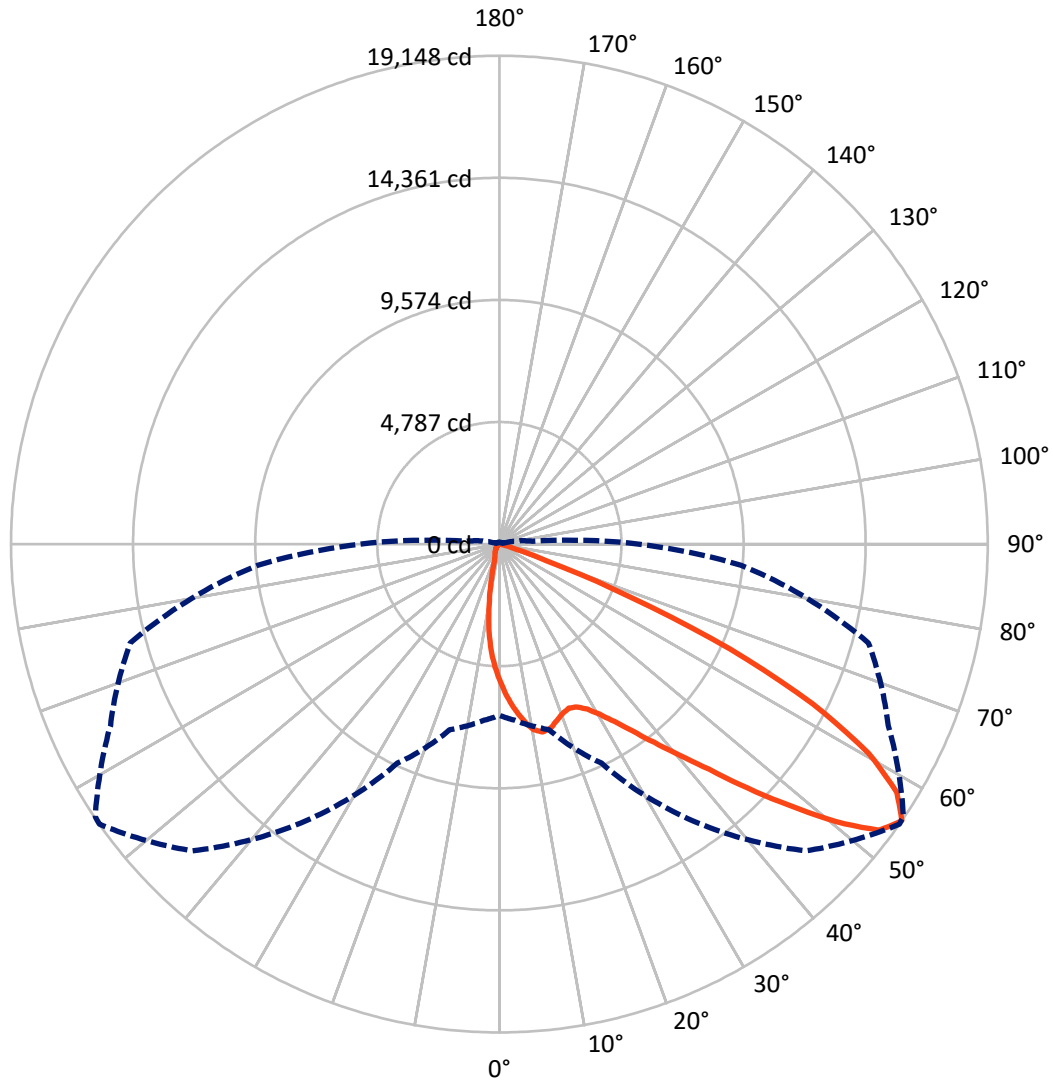
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.4 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
<b>House Side</b>	Lumens	1294.2	0.0	1294.2
	% Fixture	6.2	0.0	6.2
<b>Street Side</b>	Lumens	19679.8	0.0	19679.8
	% Fixture	93.8	0.0	93.8
<b>Total</b>	Lumens	20974.0	0.0	20974.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	478.9	2.3
10°-20°	1154.5	5.5
20°-30°	1922.7	9.2
30°-40°	3276.3	15.6
40°-50°	5348.1	25.5
50°-60°	5599.2	26.7
60°-70°	2824.1	13.5
70°-80°	356.7	1.7
80°-90°	13.6	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°	20974.0	100.0
0°-180°	20974.0	100.0

**Coefficient of Utilization**



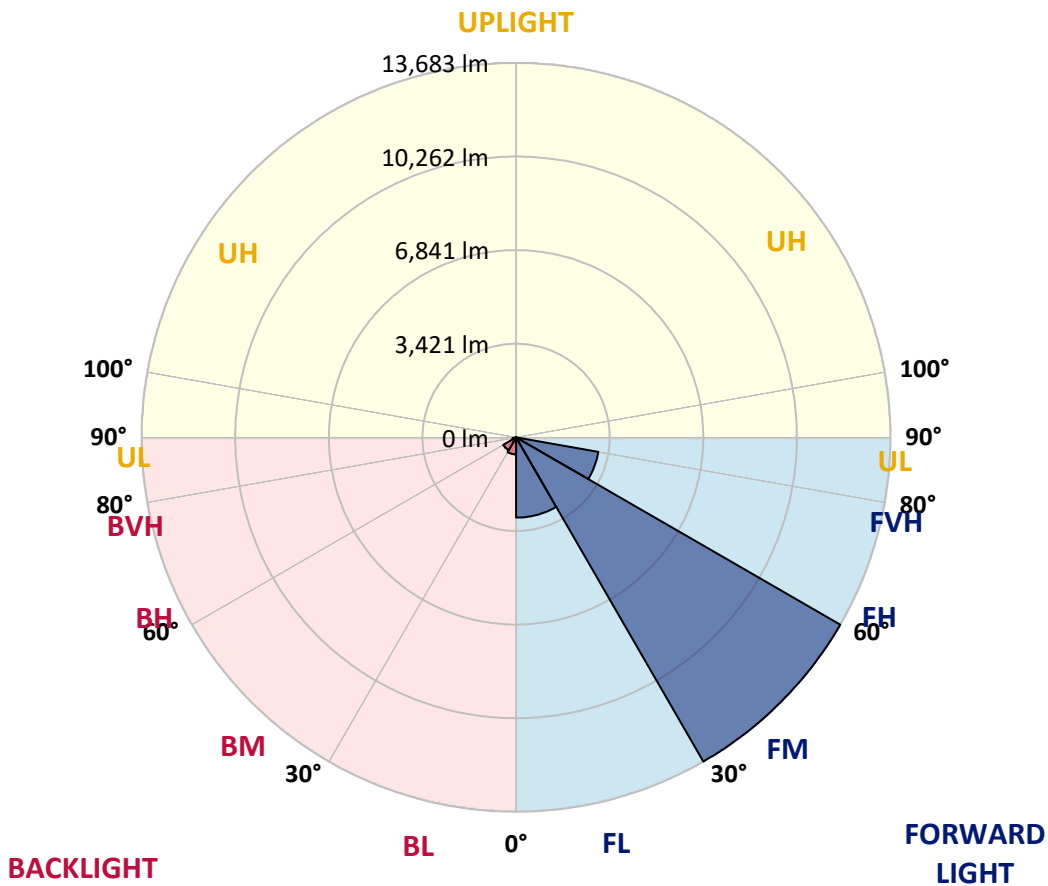
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2934.0	14.0			
FM (30°-60°)	13682.5	65.2			
FH (60°-80°)	3051.0	14.5			G2/5000
FVH (80°-90°)	12.3	0.1			G1/100
BL (0°-30°)	622.0	3.0	B2/1000		
BM (30°-60°)	541.1	2.6	B1/1000		
BH (60°-80°)	129.8	0.6	B1/500		G1/500
BVH (80°-90°)	1.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	5418.5	5418.5	5418.5	5418.5	5418.5	5418.5	5418.5	5418.5	5418.5	5418.5	5418.5
2.5°	6316.7	6286.3	6332.9	6279.1	6187.7	6110.6	6010.1	5974.3	5812.9	5660.5	5513.5
5°	7084.2	7093.1	7078.8	7003.5	6874.4	6730.9	6528.3	6483.5	6202.0	5911.5	5597.8
7.5°	7274.2	7268.8	7299.3	7328.0	7306.5	7234.8	7014.2	6969.4	6619.8	6184.1	5726.8
10°	6687.9	6691.5	6754.2	6947.9	7188.1	7437.4	7403.3	7378.2	7035.7	6492.5	5870.3
12.5°	5859.5	5891.8	5958.1	6234.3	6641.3	7207.9	7559.3	7584.4	7417.7	6831.3	6038.8
15°	5500.9	5508.1	5561.9	5728.6	6031.7	6730.9	7493.0	7562.9	7736.8	7172.0	6221.7
17.5°	5492.0	5500.9	5524.2	5597.8	5795.0	6356.2	7279.6	7401.5	7977.1	7537.8	6440.5
20°	5829.1	5823.7	5807.5	5768.1	5854.2	6232.5	7082.4	7216.8	8108.0	7894.6	6661.0
22.5°	6440.5	6433.3	6361.6	6198.4	6128.5	6345.4	6985.5	7107.5	8186.8	8212.0	6842.1
25°	7145.1	7195.3	7060.8	6813.4	6641.3	6634.1	7071.6	7157.7	8255.0	8493.5	6965.8
27.5°	7917.9	7934.0	7819.3	7541.4	7292.1	7096.7	7320.8	7385.4	8330.3	8744.5	7035.7
30°	8766.0	8760.6	8629.7	8307.0	8004.0	7722.5	7740.4	7765.5	8506.0	9031.4	7112.8
32.5°	9825.7	9849.0	9615.9	9176.6	8812.6	8423.5	8289.0	8292.6	8823.4	9400.7	7229.4
35°	11265.4	11208.1	10899.7	10273.9	9653.5	9234.0	9004.5	8984.7	9312.9	9897.4	7432.0
37.5°	12637.1	12642.5	12319.7	11631.2	10847.7	10186.0	9861.5	9807.7	10001.4	10585.9	7769.1
40°	13589.2	13607.1	13472.6	13112.2	12282.1	11346.1	10869.2	10813.6	10894.3	11457.3	8210.2
42.5°	14093.0	14143.2	14180.9	14265.1	13635.8	12794.9	12061.5	12056.1	11971.9	12450.6	8721.2
45°	14112.7	14188.0	14417.5	14993.1	15064.8	14448.0	13650.1	13530.0	13205.5	13513.9	9178.4
47.5°	13332.8	13506.7	13994.4	15134.7	15887.8	16092.2	15301.5	15228.0	14317.1	14354.8	9520.8
50°	11514.7	11695.8	12594.0	14408.6	16095.8	17397.5	17114.2	16961.8	15245.9	14910.6	9685.8
52.5°	9649.9	9814.9	10424.5	12680.1	15233.3	17808.1	18641.8	18460.8	16079.6	15104.3	9617.7
55°	6714.8	6935.3	7530.6	9477.8	13246.7	17008.4	19147.5	19109.8	16823.7	14982.3	9511.9
57.5°	3292.0	3510.7	4104.2	5843.4	9813.1	14849.6	18374.7	18573.7	17268.4	14851.4	9425.8
60°	1375.2	1464.9	1669.3	2564.0	5490.2	11222.4	16630.1	16906.2	16995.9	14673.9	9416.8
62.5°	797.9	812.2	833.7	1063.3	2135.5	6433.3	13795.4	14188.0	15563.3	14439.0	9275.2
65°	602.4	607.8	598.9	652.7	882.2	2440.3	9967.3	10501.6	12990.3	13521.0	8715.8
67.5°	494.9	494.9	471.6	482.3	554.0	914.4	5502.7	6248.6	9612.3	11113.0	7197.1
70°	394.5	403.4	392.7	378.3	396.3	505.6	1958.0	2427.7	5597.8	6562.4	4197.4
72.5°	299.4	299.4	317.4	306.6	294.1	317.4	683.1	767.4	2246.6	2736.1	1515.1
75°	231.3	238.5	251.0	240.3	222.3	188.3	328.1	347.8	677.8	636.5	338.9
77.5°	118.3	120.1	159.6	175.7	165.0	114.8	143.4	157.8	220.5	197.2	125.5
80°	71.7	75.3	89.7	138.1	109.4	61.0	59.2	62.8	104.0	89.7	52.0
82.5°	30.5	32.3	50.2	50.2	44.8	23.3	23.3	23.3	50.2	46.6	21.5
85°	0.0	0.0	9.0	7.2	7.2	9.0	9.0	9.0	12.6	17.9	10.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	5.4	5.4
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°	5418.5	5418.5	5418.5	5418.5	5418.5	5418.5	5418.5	5418.5	5418.5	5418.5	5418.5
2.5°	5418.5	5303.7	5149.5	5009.6	4821.4	4715.6	4568.6	4448.4	4346.2	4314.0	4299.6
5°	5420.2	5223.0	4893.1	4563.2	4158.0	3838.8	3510.7	3250.7	3037.3	2969.2	2951.3
7.5°	5456.1	5165.6	4631.3	4032.5	3354.7	2795.3	2295.0	1846.8	1638.8	1568.9	1554.5
10°	5504.5	5117.2	4328.3	3395.9	2422.3	1703.4	1206.7	919.8	783.5	708.2	719.0
12.5°	5567.3	5077.8	3993.0	2707.4	1602.9	935.9	663.4	555.8	527.1	512.8	505.6
15°	5651.5	5031.2	3577.0	2024.3	982.6	602.4	511.0	482.3	471.6	464.4	462.6
17.5°	5737.6	4977.4	3153.9	1423.6	652.7	500.2	459.0	444.7	437.5	432.1	430.3
20°	5829.1	4885.9	2657.2	980.8	514.6	450.0	423.1	407.0	398.0	389.1	387.3
22.5°	5868.5	4738.9	2182.1	686.7	457.2	414.2	380.1	360.4	349.6	342.5	342.5
25°	5830.8	4500.4	1690.8	521.8	416.0	374.7	340.7	319.2	310.2	303.0	303.0
27.5°	5730.4	4193.8	1233.6	432.1	371.2	333.5	301.2	281.5	274.3	270.7	270.7
30°	5619.3	3806.5	869.6	371.2	320.9	290.5	263.6	251.0	249.2	245.6	245.6
32.5°	5524.2	3444.4	598.9	326.3	283.3	252.8	234.9	229.5	231.3	227.7	229.5
35°	5472.2	3089.3	444.7	290.5	252.8	224.1	215.2	215.2	215.2	213.4	213.4
37.5°	5493.8	2739.7	362.2	265.4	225.9	204.4	195.4	199.0	202.6	202.6	202.6
40°	5601.3	2429.5	320.9	242.1	202.6	186.5	179.3	184.7	190.1	193.6	193.6
42.5°	5737.6	2178.5	290.5	222.3	186.5	168.5	165.0	170.3	175.7	179.3	179.3
45°	5823.7	1925.7	260.0	197.2	170.3	148.8	148.8	156.0	154.2	156.0	156.0
47.5°	5863.1	1724.9	229.5	170.3	145.2	129.1	130.9	134.5	130.9	134.5	134.5
50°	5766.3	1522.3	202.6	141.6	120.1	113.0	116.5	114.8	114.8	121.9	121.9
52.5°	5588.8	1371.6	179.3	120.1	102.2	100.4	104.0	96.8	98.6	98.6	96.8
55°	5457.9	1285.6	159.6	104.0	87.9	89.7	87.9	75.3	68.1	61.0	59.2
57.5°	5393.4	1251.5	145.2	93.2	78.9	78.9	71.7	52.0	39.4	30.5	26.9
60°	5379.0	1210.3	130.9	80.7	69.9	66.3	52.0	30.5	19.7	14.3	12.6
62.5°	5242.7	1109.9	118.3	64.5	61.0	53.8	32.3	17.9	10.8	7.2	5.4
65°	4796.3	912.6	105.8	50.2	46.6	39.4	19.7	10.8	5.4	1.8	0.0
67.5°	3815.5	647.3	93.2	37.7	32.3	25.1	12.6	7.2	1.8	0.0	0.0
70°	2200.0	349.6	77.1	26.9	21.5	16.1	9.0	3.6	0.0	0.0	0.0
72.5°	735.1	163.2	59.2	17.9	16.1	12.6	5.4	1.8	0.0	0.0	0.0
75°	161.4	96.8	39.4	12.6	10.8	9.0	3.6	0.0	0.0	0.0	0.0
77.5°	61.0	68.1	19.7	9.0	7.2	5.4	1.8	0.0	0.0	0.0	0.0
80°	23.3	44.8	9.0	5.4	5.4	1.8	0.0	0.0	0.0	0.0	0.0
82.5°	12.6	17.9	5.4	3.6	3.6	0.0	0.0	0.0	0.0	0.0	0.0
85°	7.2	9.0	3.6	1.8	1.8	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.6	1.8	1.8	1.8	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)