

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: P636349

Luminaire Tested: GWS-SA3F-750-U-T2R-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P636349  
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-SA3F-750-U-T2R-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (48) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

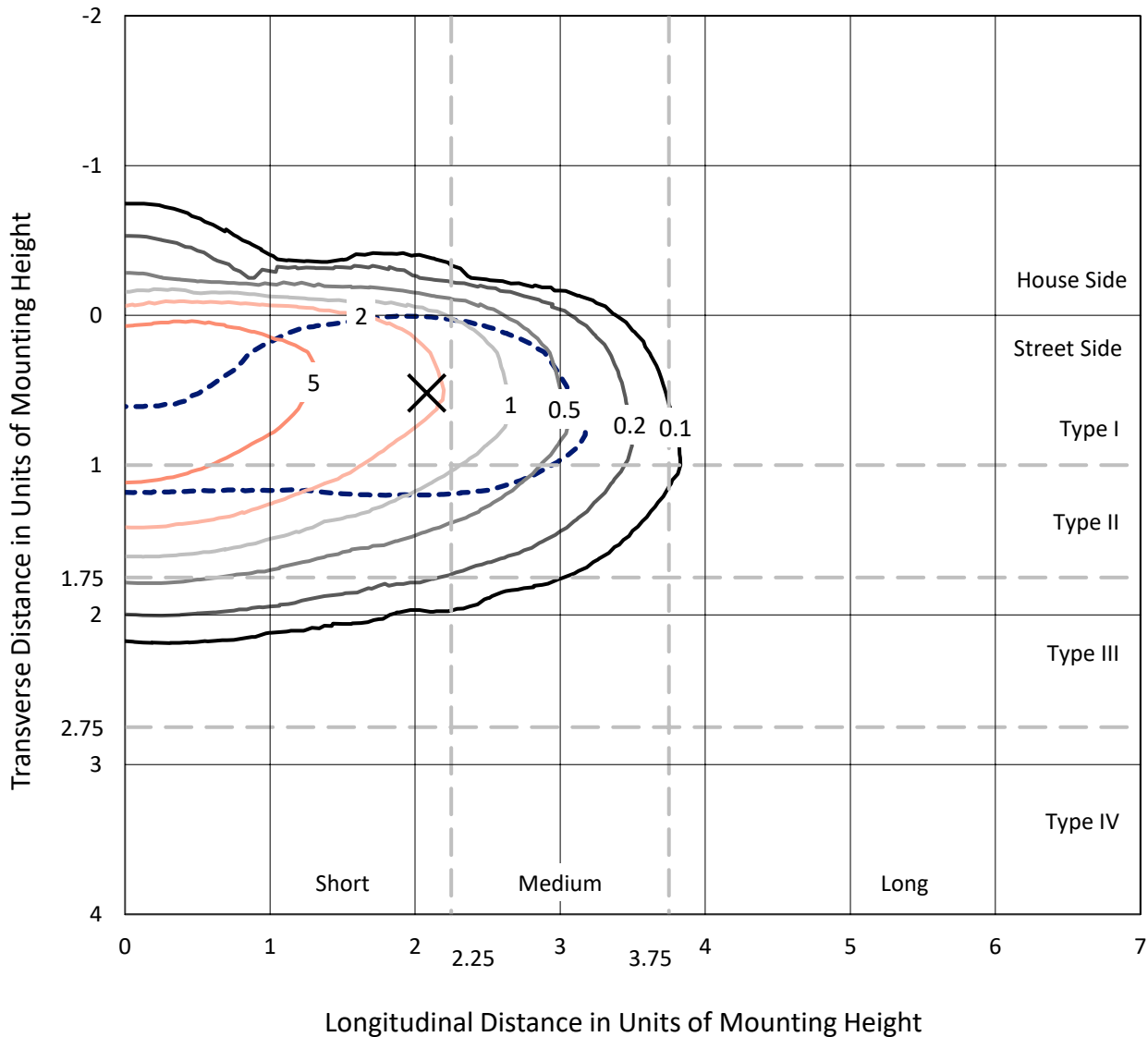
Lumens per Lamp: N/A  
Luminaire Lumens: 20170.8 lumens  
Efficiency: N/A  
Efficacy: 110.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 183.2  
Input Voltage (V): 120  
Input Current (Ain): 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

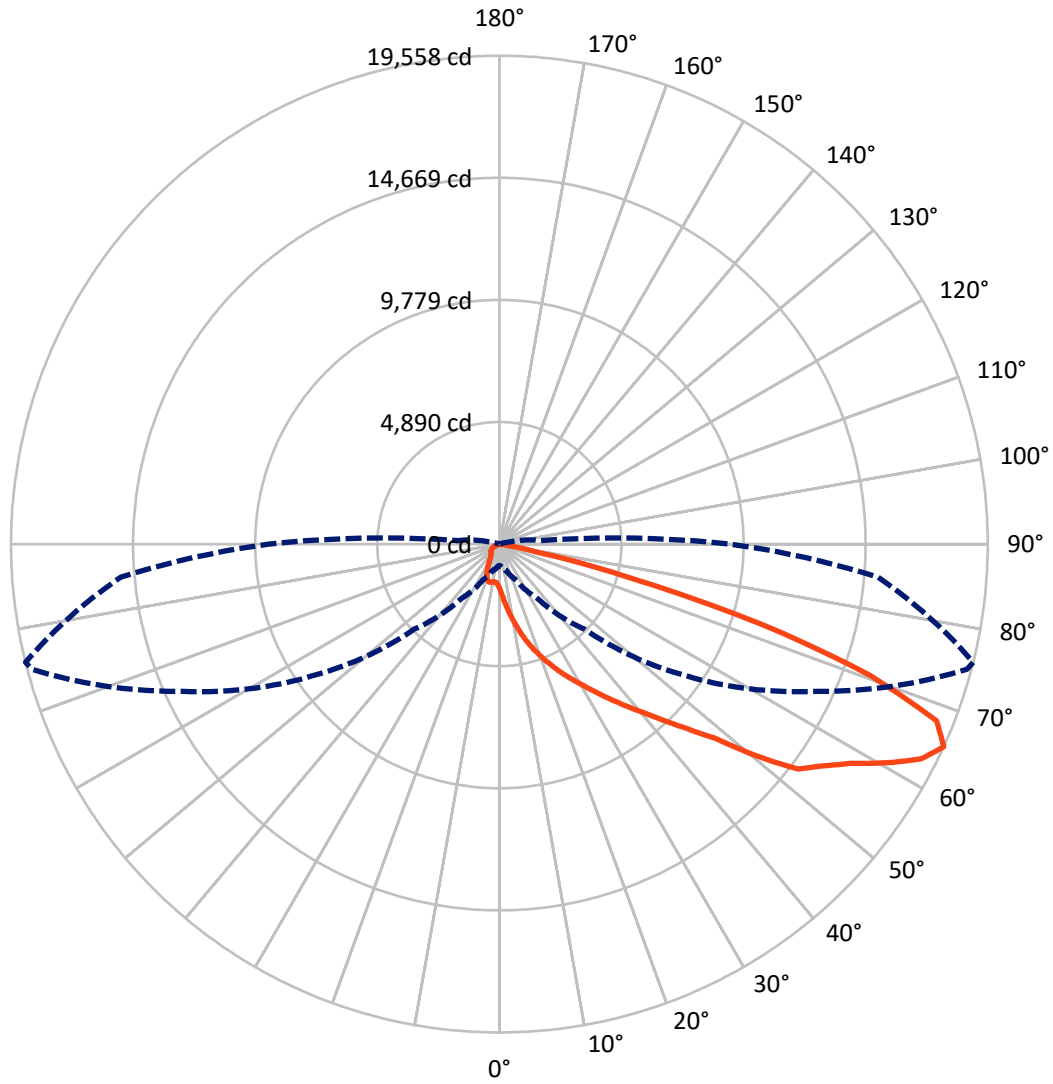
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.7 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
<b>House Side</b>	Lumens	1115.3	0.0	1115.3
	% Fixture	5.5	0.0	5.5
<b>Street Side</b>	Lumens	19055.5	0.0	19055.5
	% Fixture	94.5	0.0	94.5
<b>Total</b>	Lumens	20170.8	0.0	20170.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	217.3	1.1
10°-20°	824.4	4.1
20°-30°	1681.9	8.3
30°-40°	2991.2	14.8
40°-50°	4421.8	21.9
50°-60°	5062.6	25.1
60°-70°	3862.5	19.1
70°-80°	1082.0	5.4
80°-90°	27.2	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°	20170.8	100.0
0°-180°	20170.8	100.0

**Coefficient of Utilization**



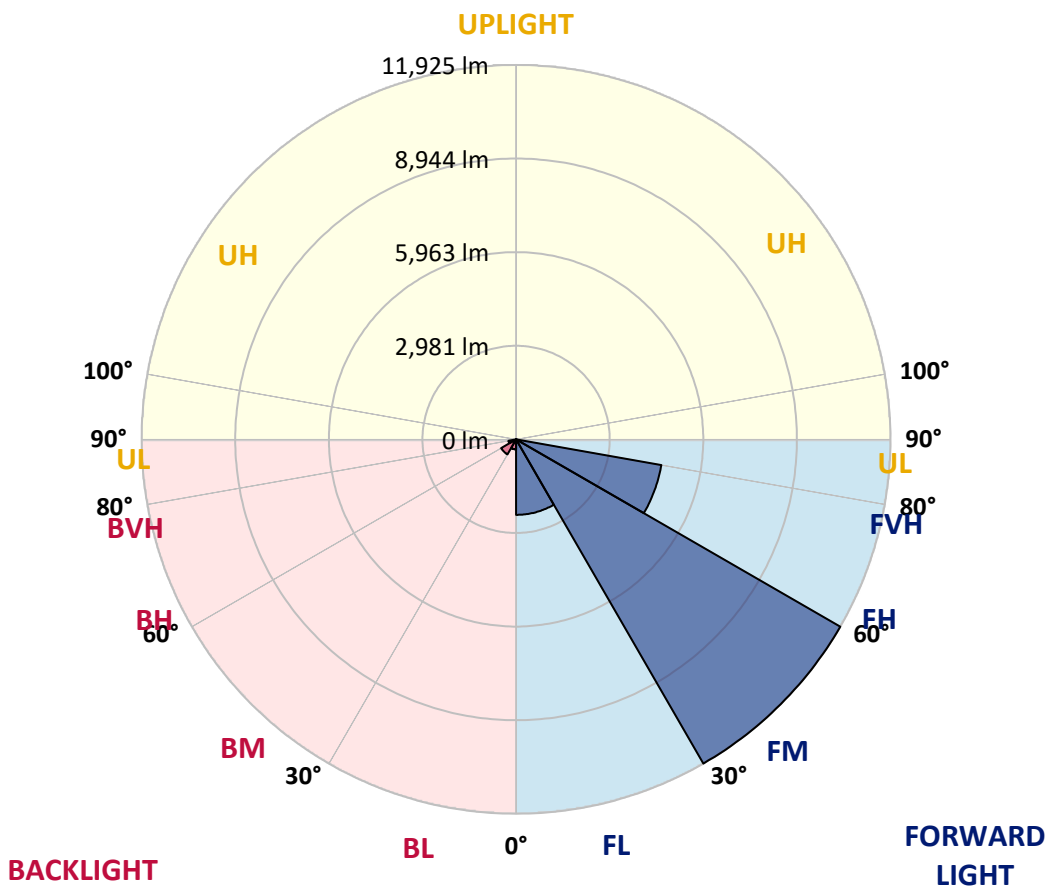
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2405.2	11.9			
FM (30°-60°)	11925.3	59.1			
FH (60°-80°)	4699.3	23.3			G2/5000
FVH (80°-90°)	25.7	0.1			G1/100
BL (0°-30°)	318.3	1.6	B1/500		
BM (30°-60°)	550.3	2.7	B1/1000		
BH (60°-80°)	245.2	1.2	B1/500		G1/500
BVH (80°-90°)	1.6	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°	1785.9	1785.9	1785.9	1785.9	1785.9	1785.9	1785.9	1785.9	1785.9	1785.9	1785.9
2.5°	2752.3	2793.5	2761.3	2707.5	2603.5	2503.1	2374.0	2196.5	2054.8	2036.9	1904.2
5°	3716.9	3713.4	3643.4	3573.5	3464.1	3292.0	3032.0	2702.1	2384.7	2357.8	2060.2
7.5°	4290.7	4296.1	4256.6	4202.8	4095.3	3917.8	3647.0	3249.0	2784.6	2730.8	2273.6
10°	4773.0	4771.2	4742.5	4717.4	4620.6	4502.3	4211.8	3774.3	3214.9	3130.6	2512.0
12.5°	5135.2	5147.8	5162.1	5187.2	5146.0	5029.4	4755.1	4278.2	3650.6	3557.4	2784.6
15°	5422.1	5425.7	5479.5	5576.3	5610.4	5549.4	5300.2	4765.9	4080.9	4000.2	3098.3
17.5°	5508.2	5515.3	5606.8	5784.3	5963.6	5997.7	5809.4	5257.1	4504.1	4418.0	3403.2
20°	5689.3	5705.4	5773.5	5929.5	6155.5	6338.3	6264.8	5753.8	4927.2	4814.3	3715.1
22.5°	6259.4	6268.4	6245.1	6264.8	6381.4	6592.9	6637.8	6234.3	5361.1	5241.0	4052.2
25°	7240.2	7243.8	7080.7	6926.5	6838.6	6878.0	6976.7	6677.2	5791.5	5673.1	4366.0
27.5°	8258.7	8271.2	8075.8	7814.0	7500.2	7320.9	7292.2	7082.4	6225.4	6094.5	4676.2
30°	9217.9	9217.9	9011.7	8692.6	8273.0	7923.4	7717.2	7491.3	6689.8	6546.3	4993.6
32.5°	10080.4	10073.2	9809.6	9463.6	9049.4	8665.7	8231.8	7918.0	7206.2	7046.6	5359.3
35°	10792.2	10774.3	10474.8	10143.1	9700.3	9415.2	8931.1	8377.0	7765.6	7606.0	5735.9
37.5°	11330.1	11310.4	11036.1	10684.6	10274.0	10089.3	9684.1	8927.5	8355.5	8210.3	6153.7
40°	11622.4	11582.9	11392.9	11131.1	10786.8	10625.5	10456.9	9610.6	9049.4	8868.3	6646.7
42.5°	11708.4	11661.8	11536.3	11414.4	11206.4	11079.1	11260.2	10381.6	9811.4	9655.4	7209.7
45°	11453.8	11426.9	11416.2	11504.0	11541.7	11577.6	12024.0	11235.1	10652.4	10534.0	7918.0
47.5°	10840.6	10833.4	10928.5	11294.3	11692.3	12070.6	12854.2	12287.6	11742.5	11615.2	8907.7
50°	9707.4	9780.9	10046.3	10688.2	11484.3	12350.3	13630.6	13747.1	13506.8	13320.4	10198.7
52.5°	7935.9	8077.6	8672.9	9648.3	10792.2	12271.5	13989.2	14916.2	15161.8	14968.2	11123.9
55°	6227.2	6359.9	6890.6	8127.8	9653.6	11670.8	14005.3	15319.6	15855.7	15676.4	11749.7
57.5°	4638.6	4760.5	5242.8	6426.2	8104.5	10489.2	13621.6	15543.7	16678.7	16564.0	12737.6
60°	3032.0	3152.1	3587.8	4622.4	6286.3	8767.9	12676.7	15497.1	17799.3	17788.6	13951.5
62.5°	1681.9	1776.9	2092.5	2899.3	4387.5	6790.2	11192.1	15029.1	18884.1	18952.3	14952.0
65°	860.7	921.6	1113.5	1594.0	2655.5	4814.3	9239.5	13956.9	19386.2	19558.3	15215.6
67.5°	563.0	582.7	629.4	828.4	1421.9	3028.4	6953.3	12237.4	18679.7	18880.5	14331.6
70°	457.2	473.4	500.3	552.3	733.3	1608.3	4566.8	9773.8	15608.3	15744.5	11412.6
72.5°	335.3	356.8	408.8	442.9	528.9	882.2	2375.8	6415.4	10718.7	10959.0	7172.1
75°	247.4	260.0	303.0	349.6	432.1	557.6	909.1	3372.7	5535.1	5395.2	3012.3
77.5°	148.8	157.8	193.6	224.1	308.4	347.8	317.4	1246.2	1683.6	1583.2	728.0
80°	73.5	82.5	127.3	168.5	197.2	139.9	132.7	347.8	374.7	374.7	182.9
82.5°	25.1	32.3	68.1	111.2	96.8	53.8	62.8	89.7	100.4	105.8	53.8
85°	0.0	0.0	16.1	32.3	14.3	7.2	16.1	19.7	25.1	26.9	17.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	5.4	7.2	7.2
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°	1785.9	1785.9	1785.9	1785.9	1785.9	1785.9	1785.9	1785.9	1785.9	1785.9	1785.9
2.5°	1832.5	1748.2	1620.9	1506.1	1418.3	1335.8	1273.0	1222.8	1213.9	1185.2	1188.8
5°	1914.9	1762.5	1527.7	1346.6	1219.3	1133.2	1061.5	1007.7	984.4	961.1	943.1
7.5°	2042.3	1821.7	1491.8	1271.3	1122.4	989.7	878.6	788.9	745.9	719.0	701.1
10°	2198.2	1904.2	1493.6	1226.4	1005.9	803.3	650.9	552.3	505.6	491.3	489.5
12.5°	2384.7	2008.2	1507.9	1152.9	837.3	597.1	482.3	437.5	423.2	410.6	410.6
15°	2582.0	2124.7	1507.9	1018.4	638.3	466.2	417.8	389.1	371.2	364.0	360.4
17.5°	2789.9	2234.1	1472.1	833.8	489.5	410.6	371.2	344.3	329.9	319.2	315.6
20°	3012.3	2338.1	1382.4	638.3	419.6	367.6	329.9	303.0	288.7	277.9	277.9
22.5°	3238.2	2434.9	1237.2	491.3	371.2	326.3	290.5	265.4	251.0	240.3	240.3
25°	3448.0	2499.5	1050.7	405.2	335.3	290.5	258.2	233.1	217.0	209.8	206.2
27.5°	3643.4	2540.7	844.5	356.8	301.2	260.0	225.9	202.6	190.1	184.7	181.1
30°	3846.0	2551.5	645.5	324.5	272.5	229.5	197.2	179.3	168.5	161.4	161.4
32.5°	4043.3	2538.9	493.1	297.6	247.4	202.6	175.7	159.6	150.6	145.2	143.4
35°	4244.1	2481.5	399.8	274.3	222.3	177.5	156.0	143.4	138.1	130.9	130.9
37.5°	4462.8	2404.4	347.8	251.0	197.2	159.6	139.9	130.9	123.7	118.3	116.5
40°	4735.4	2314.8	319.2	231.3	173.9	143.4	125.5	116.5	111.2	105.8	104.0
42.5°	5058.1	2226.9	304.8	209.8	156.0	127.3	113.0	102.2	96.8	89.7	87.9
45°	5515.3	2207.2	288.7	186.5	139.9	114.8	98.6	87.9	80.7	75.3	73.5
47.5°	6250.5	2262.8	261.8	161.4	123.7	100.4	84.3	75.3	66.3	61.0	57.4
50°	6980.2	2248.5	234.9	139.9	109.4	86.1	71.7	62.8	53.8	48.4	46.6
52.5°	7378.3	2180.3	209.8	123.7	95.0	73.5	61.0	50.2	44.8	39.4	37.7
55°	7738.7	2153.4	184.7	107.6	80.7	64.5	50.2	41.2	37.7	32.3	30.5
57.5°	8445.1	2216.2	163.2	93.2	69.9	55.6	43.0	34.1	30.5	25.1	23.3
60°	9183.9	2223.3	139.9	80.7	61.0	46.6	34.1	26.9	23.3	17.9	16.1
62.5°	9569.4	2042.3	114.8	68.1	50.2	39.4	28.7	21.5	17.9	10.8	10.8
65°	9246.6	1651.4	96.8	55.6	39.4	30.5	21.5	16.1	10.8	5.4	1.8
67.5°	8183.4	1174.4	80.7	44.8	28.7	21.5	16.1	10.8	1.8	0.0	0.0
70°	5992.3	670.6	62.8	32.3	21.5	14.3	10.8	5.4	0.0	0.0	0.0
72.5°	3682.9	358.6	46.6	21.5	16.1	10.8	9.0	3.6	0.0	0.0	0.0
75°	1396.8	172.1	28.7	14.3	12.6	9.0	5.4	1.8	0.0	0.0	0.0
77.5°	378.3	84.3	16.1	10.8	9.0	5.4	3.6	0.0	0.0	0.0	0.0
80°	98.6	39.4	10.8	7.2	5.4	3.6	0.0	0.0	0.0	0.0	0.0
82.5°	34.1	17.9	5.4	5.4	3.6	1.8	0.0	0.0	0.0	0.0	0.0
85°	14.3	7.2	3.6	3.6	1.8	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.4	1.8	1.8	1.8	1.8	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)