

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: P638824

Luminaire Tested: GWS-SA4F-750-U-T2R-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P638824  
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-SA4F-750-U-T2R-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (64) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

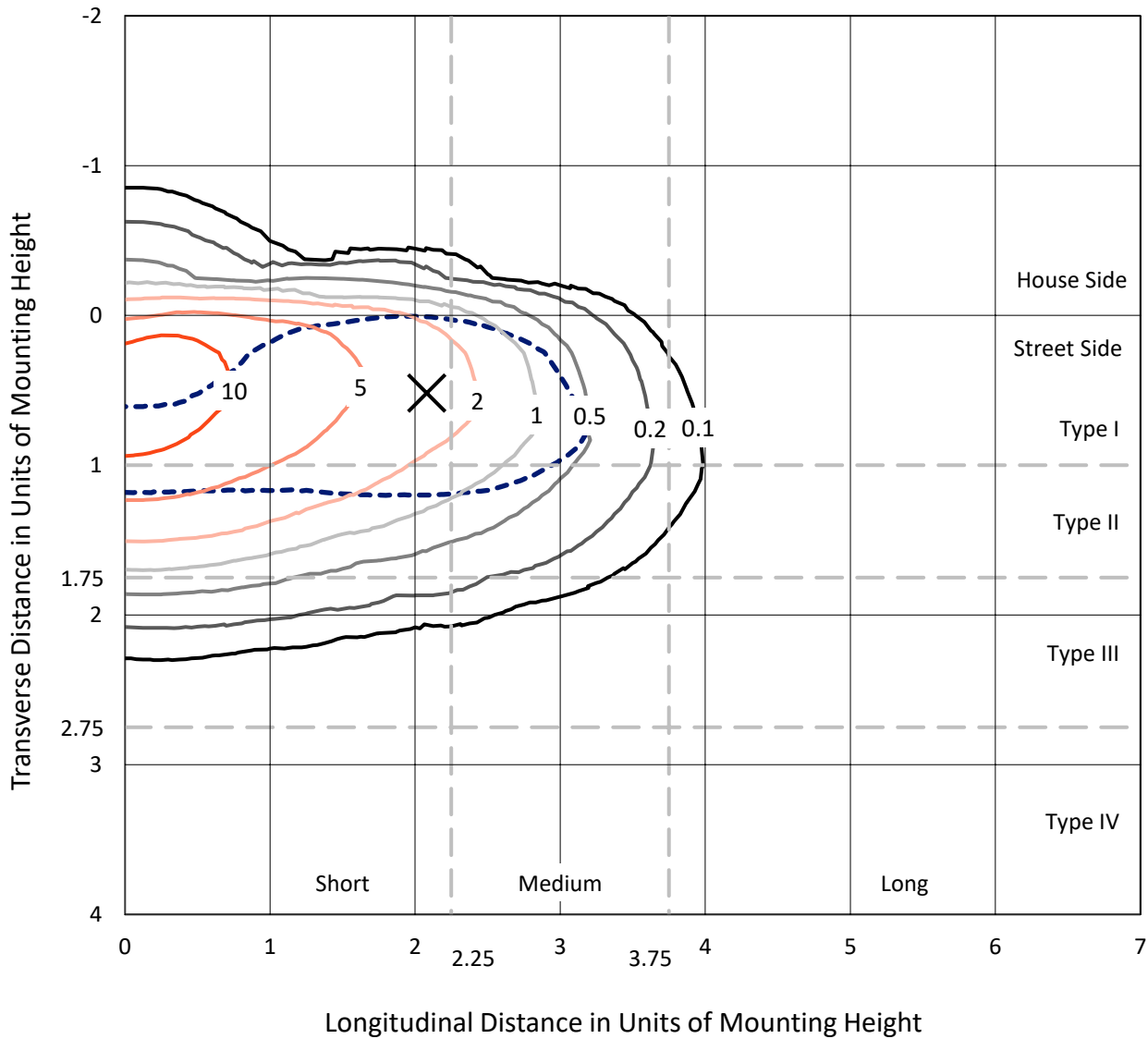
Lumens per Lamp: N/A  
Luminaire Lumens: 28069 lumens  
Efficiency: N/A  
Efficacy: 124.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G3  
  
Input Watts (W): 225.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

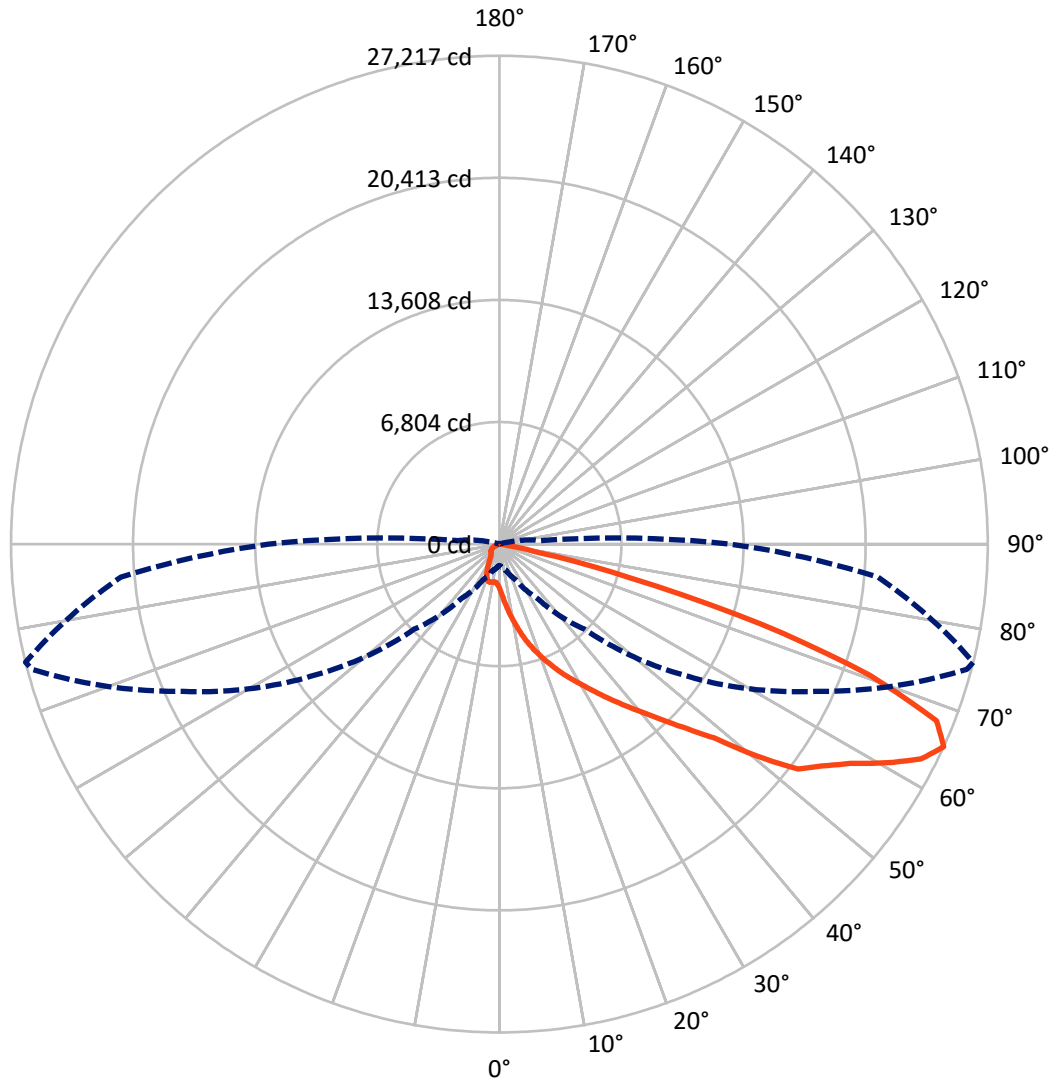
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.5 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	1552.1	0.0	1552.1
	% Fixture	5.5	0.0	5.5
<b>Street Side</b>	Lumens	26517.0	0.0	26517.0
	% Fixture	94.5	0.0	94.5
<b>Total</b>	Lumens	28069.0	0.0	28069.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	302.3	1.1
10°-20°	1147.2	4.1
20°-30°	2340.4	8.3
30°-40°	4162.5	14.8
40°-50°	6153.2	21.9
50°-60°	7044.9	25.1
60°-70°	5374.9	19.1
70°-80°	1505.6	5.4
80°-90°	37.9	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°	28069.0	100.0
0°-180°	28069.0	100.0

**Coefficient of Utilization**



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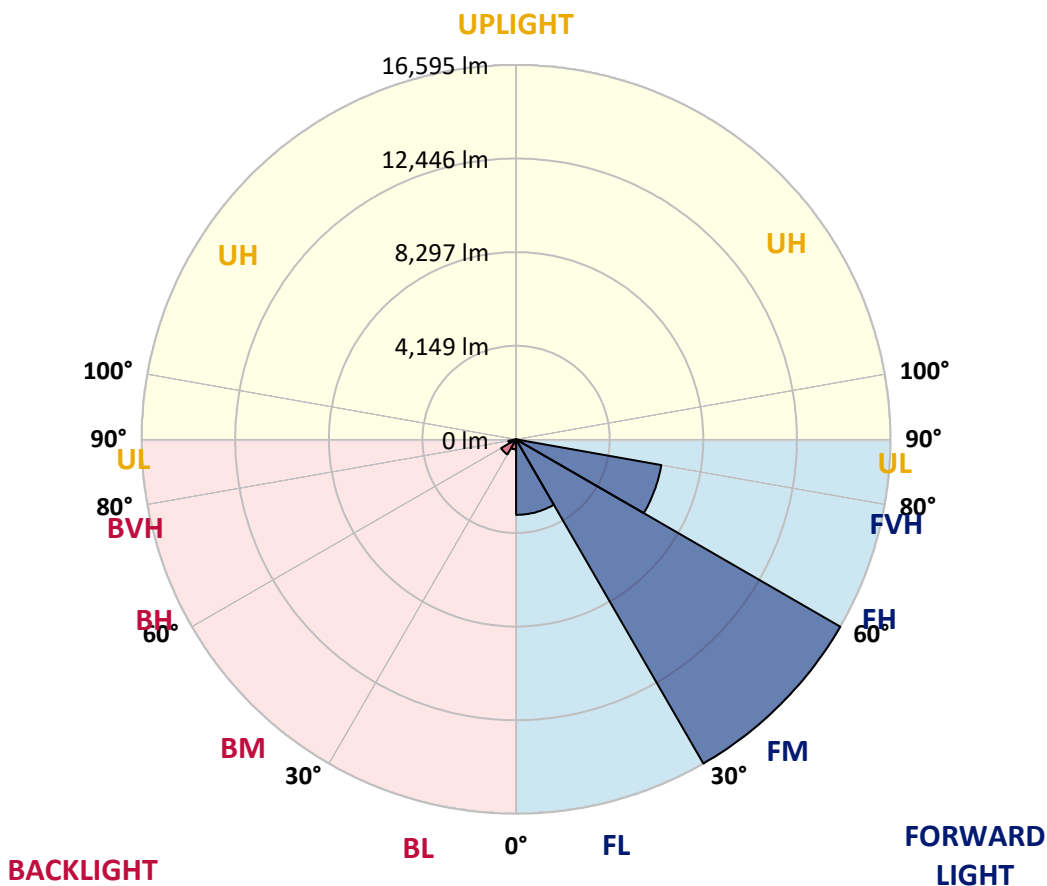
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3347.0	11.9			
FM (30°-60°)	16594.8	59.1			
FH (60°-80°)	6539.4	23.3			G3/7500
FVH (80°-90°)	35.7	0.1			G1/100
BL (0°-30°)	442.9	1.6	B1/500		
BM (30°-60°)	765.8	2.7	B1/1000		
BH (60°-80°)	341.2	1.2	B1/500		G1/500
BVH (80°-90°)	2.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2485.1	2485.1	2485.1	2485.1	2485.1	2485.1	2485.1	2485.1	2485.1	2485.1	2485.1
2.5°	3830.0	3887.4	3842.5	3767.6	3622.9	3483.2	3303.5	3056.5	2859.4	2834.4	2649.8
5°	5172.4	5167.4	5070.1	4972.8	4820.6	4581.0	4219.2	3760.1	3318.5	3281.1	2866.9
7.5°	5970.8	5978.3	5923.4	5848.5	5698.8	5451.8	5075.1	4521.1	3874.9	3800.1	3163.8
10°	6642.0	6639.5	6599.6	6564.6	6429.9	6265.2	5861.0	5252.2	4473.7	4356.5	3495.7
12.5°	7146.0	7163.5	7183.4	7218.4	7161.0	6998.8	6617.0	5953.3	5080.0	4950.3	3874.9
15°	7545.2	7550.2	7625.1	7759.8	7807.2	7722.4	7375.5	6632.0	5678.9	5566.6	4311.6
17.5°	7665.0	7675.0	7802.2	8049.2	8298.7	8346.1	8084.2	7315.7	6267.7	6148.0	4735.7
20°	7917.0	7939.4	8034.3	8251.3	8565.7	8820.2	8717.9	8006.8	6856.6	6699.4	5169.9
22.5°	8710.4	8722.9	8690.5	8717.9	8880.1	9174.5	9236.9	8675.5	7460.4	7293.2	5639.0
25°	10075.3	10080.2	9853.2	9638.6	9516.4	9571.2	9708.5	9291.8	8059.2	7894.5	6075.6
27.5°	11492.5	11509.9	11238.0	10873.7	10437.0	10187.5	10147.6	9855.7	8663.0	8480.9	6507.2
30°	12827.4	12827.4	12540.4	12096.3	11512.4	11025.9	10739.0	10424.6	9309.3	9109.6	6948.9
32.5°	14027.5	14017.5	13650.8	13169.2	12592.8	12058.9	11455.1	11018.4	10027.9	9805.8	7457.9
35°	15018.1	14993.1	14576.4	14114.8	13498.5	13101.8	12428.1	11657.2	10806.3	10584.3	7981.9
37.5°	15766.6	15739.2	15357.4	14868.4	14297.0	14040.0	13476.1	12423.2	11627.2	11425.1	8563.2
40°	16173.3	16118.4	15853.9	15489.6	15010.6	14786.0	14551.5	13373.8	12592.8	12340.8	9249.4
42.5°	16293.1	16228.2	16053.5	15883.9	15594.4	15417.3	15669.3	14446.7	13653.2	13436.2	10032.8
45°	15938.8	15901.3	15886.4	16008.6	16061.0	16110.9	16732.2	15634.4	14823.5	14658.8	11018.4
47.5°	15085.4	15075.5	15207.7	15716.7	16270.6	16797.1	17887.4	17099.0	16340.5	16163.3	12395.7
50°	13508.5	13610.8	13980.1	14873.4	15981.2	17186.3	18967.8	19130.0	18795.7	18536.2	14192.2
52.5°	11043.4	11240.5	12068.9	13426.2	15018.1	17076.5	19466.9	20756.8	21098.7	20829.2	15479.7
55°	8665.5	8850.2	9588.7	11310.3	13433.7	16240.7	19489.3	21318.2	22064.3	21814.8	16350.5
57.5°	6454.9	6624.5	7295.7	8942.5	11277.9	14596.4	18955.4	21630.1	23209.5	23049.8	17725.3
60°	4219.2	4386.4	4992.7	6432.4	8747.9	12201.1	17640.4	21565.2	24769.0	24754.0	19414.5
62.5°	2340.4	2472.7	2911.8	4034.6	6105.5	9449.0	15574.5	20914.0	26278.5	26373.3	20806.7
65°	1197.7	1282.5	1549.5	2218.2	3695.3	6699.4	12857.3	19421.9	26977.1	27216.7	21173.5
67.5°	783.5	810.9	875.8	1152.7	1978.6	4214.2	9676.0	17029.1	25994.1	26273.5	19943.4
70°	636.3	658.7	696.1	768.5	1020.5	2238.1	6355.0	13600.8	21719.9	21909.6	15881.4
72.5°	466.6	496.5	568.9	616.3	736.1	1227.6	3306.0	8927.5	14915.8	15250.1	9980.4
75°	344.3	361.8	421.7	486.5	601.3	776.0	1265.0	4693.3	7702.4	7507.8	4191.8
77.5°	207.1	219.6	269.5	311.9	429.2	484.1	441.6	1734.1	2342.9	2203.2	1013.0
80°	102.3	114.8	177.2	234.5	274.5	194.6	184.6	484.1	521.5	521.5	254.5
82.5°	34.9	44.9	94.8	154.7	134.7	74.9	87.3	124.8	139.7	147.2	74.9
85°	0.0	0.0	22.5	44.9	20.0	10.0	22.5	27.4	34.9	37.4	25.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	7.5	10.0	10.0
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°	2485.1	2485.1	2485.1	2485.1	2485.1	2485.1	2485.1	2485.1	2485.1	2485.1	2485.1
2.5°	2550.0	2432.7	2255.6	2095.9	1973.6	1858.9	1771.5	1701.7	1689.2	1649.3	1654.3
5°	2664.8	2452.7	2125.8	1873.8	1696.7	1576.9	1477.1	1402.3	1369.8	1337.4	1312.4
7.5°	2841.9	2535.0	2075.9	1769.0	1561.9	1377.3	1222.6	1097.8	1038.0	1000.5	975.6
10°	3059.0	2649.8	2078.4	1706.7	1399.8	1117.8	905.7	768.5	703.6	683.7	681.2
12.5°	3318.5	2794.5	2098.4	1604.4	1165.2	830.9	671.2	608.8	588.8	571.4	571.4
15°	3593.0	2956.7	2098.4	1417.2	888.3	648.7	581.4	541.4	516.5	506.5	501.5
17.5°	3882.4	3108.9	2048.5	1160.2	681.2	571.4	516.5	479.1	459.1	444.1	439.1
20°	4191.8	3253.6	1923.7	888.3	583.9	511.5	459.1	421.7	401.7	386.7	386.7
22.5°	4506.2	3388.4	1721.6	683.7	516.5	454.1	404.2	369.3	349.3	334.3	334.3
25°	4798.1	3478.2	1462.1	563.9	466.6	404.2	359.3	324.4	301.9	291.9	286.9
27.5°	5070.1	3535.6	1175.2	496.5	419.2	361.8	314.4	281.9	264.5	257.0	252.0
30°	5352.0	3550.5	898.2	451.6	379.3	319.4	274.5	249.5	234.5	224.6	224.6
32.5°	5626.5	3533.1	686.2	414.2	344.3	281.9	244.5	222.1	209.6	202.1	199.6
35°	5905.9	3453.2	556.4	381.8	309.4	247.0	217.1	199.6	192.1	182.1	182.1
37.5°	6210.3	3345.9	484.1	349.3	274.5	222.1	194.6	182.1	172.2	164.7	162.2
40°	6589.6	3221.2	444.1	321.9	242.0	199.6	174.7	162.2	154.7	147.2	144.7
42.5°	7038.7	3098.9	424.2	291.9	217.1	177.2	157.2	142.2	134.7	124.8	122.3
45°	7675.0	3071.5	401.7	259.5	194.6	159.7	137.2	122.3	112.3	104.8	102.3
47.5°	8698.0	3148.8	364.3	224.6	172.2	139.7	117.3	104.8	92.3	84.8	79.8
50°	9713.5	3128.9	326.9	194.6	152.2	119.8	99.8	87.3	74.9	67.4	64.9
52.5°	10267.4	3034.1	291.9	172.2	132.2	102.3	84.8	69.9	62.4	54.9	52.4
55°	10768.9	2996.6	257.0	149.7	112.3	89.8	69.9	57.4	52.4	44.9	42.4
57.5°	11752.0	3084.0	227.1	129.7	97.3	77.3	59.9	47.4	42.4	34.9	32.4
60°	12780.0	3093.9	194.6	112.3	84.8	64.9	47.4	37.4	32.4	25.0	22.5
62.5°	13316.4	2841.9	159.7	94.8	69.9	54.9	39.9	29.9	25.0	15.0	15.0
65°	12867.3	2298.0	134.7	77.3	54.9	42.4	29.9	22.5	15.0	7.5	2.5
67.5°	11387.7	1634.3	112.3	62.4	39.9	29.9	22.5	15.0	2.5	0.0	0.0
70°	8338.7	933.2	87.3	44.9	29.9	20.0	15.0	7.5	0.0	0.0	0.0
72.5°	5125.0	499.0	64.9	29.9	22.5	15.0	12.5	5.0	0.0	0.0	0.0
75°	1943.7	239.5	39.9	20.0	17.5	12.5	7.5	2.5	0.0	0.0	0.0
77.5°	526.5	117.3	22.5	15.0	12.5	7.5	5.0	0.0	0.0	0.0	0.0
80°	137.2	54.9	15.0	10.0	7.5	5.0	0.0	0.0	0.0	0.0	0.0
82.5°	47.4	25.0	7.5	7.5	5.0	2.5	0.0	0.0	0.0	0.0	0.0
85°	20.0	10.0	5.0	5.0	2.5	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.5	2.5	2.5	2.5	2.5	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)