

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: P635524

Luminaire Tested: GWS-SA3D-830-U-T2R-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P635524  
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-SA3D-830-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) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

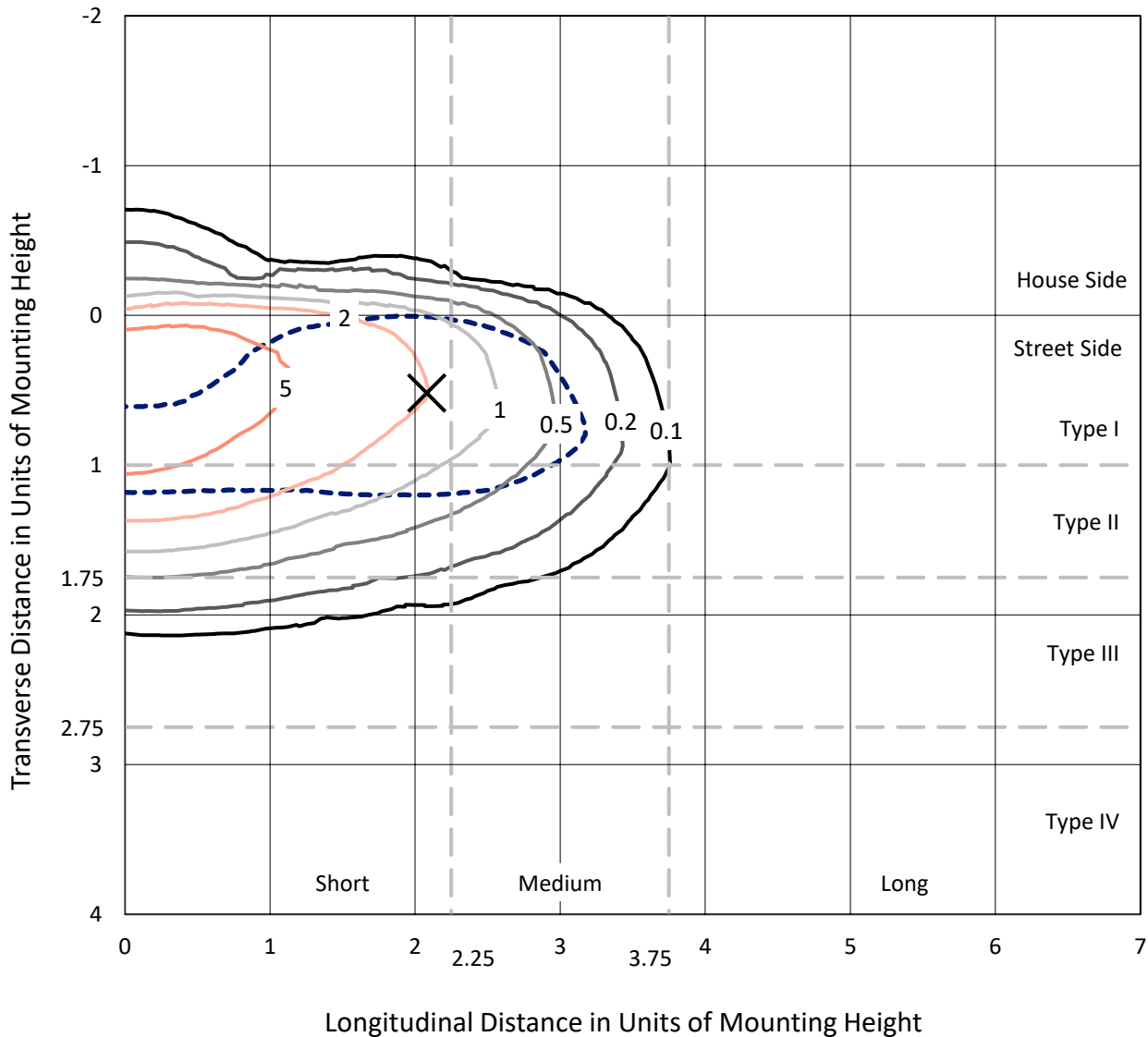
Lumens per Lamp: N/A  
Luminaire Lumens: 11274.4 lumens  
Efficiency: N/A  
Efficacy: 93.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 120.8  
Input Voltage (V): 120  
Input Current (Ain): 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: P635524  
 CATALOG NUMBER: GWS-SA3D-830-U-T2R-W-HSS

### Iso-Footcandle Lines of Horizontal Illumination

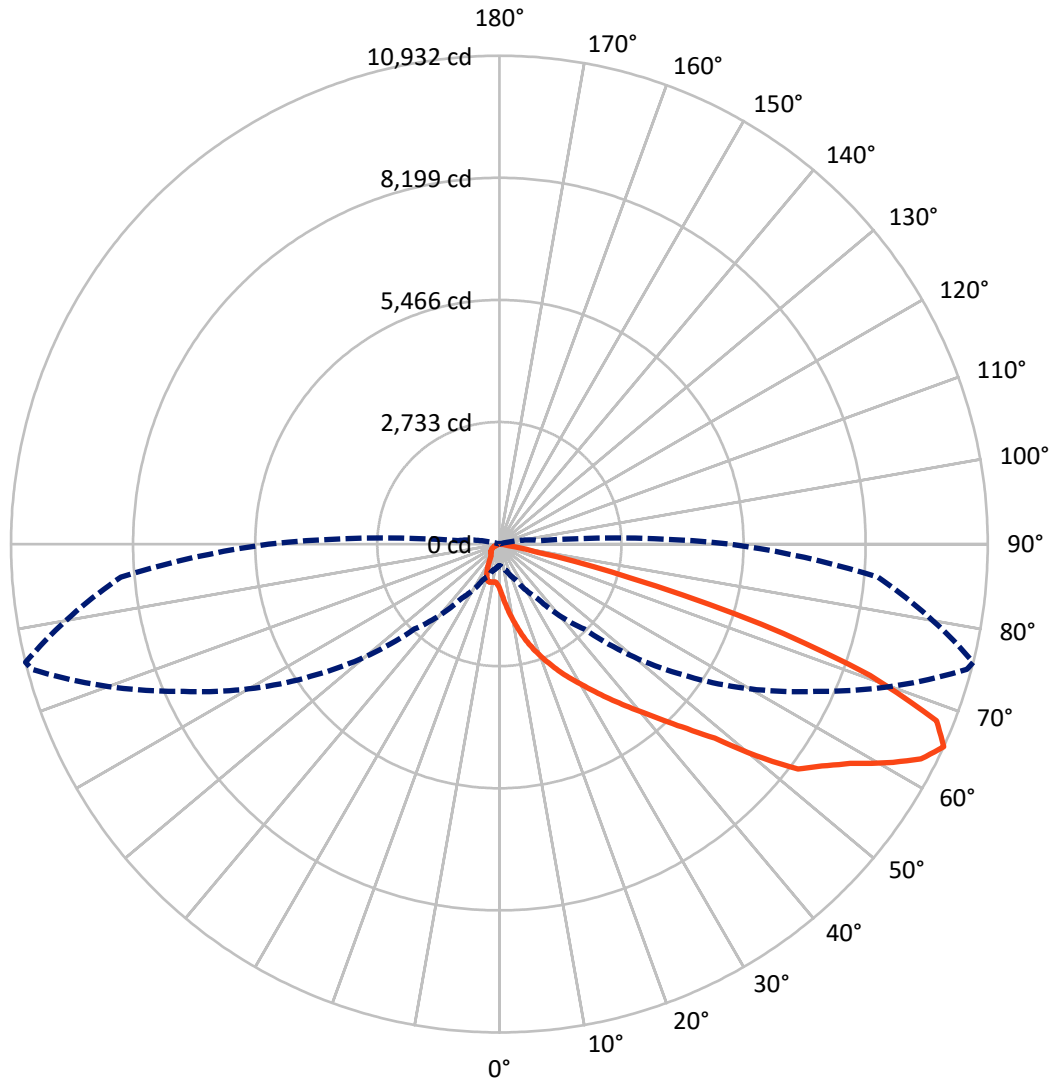
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 8.4 fc  
 Type II - Short - N/A

REPORT NUMBER: P635524  
CATALOG NUMBER: GWS-SA3D-830-U-T2R-W-HSS

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P635524  
 CATALOG NUMBER: GWS-SA3D-830-U-T2R-W-HSS

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	623.4	0.0	623.4
	% Fixture	5.5	0.0	5.5
<b>Street Side</b>	Lumens	10651.0	0.0	10651.0
	% Fixture	94.5	0.0	94.5
<b>Total</b>	Lumens	11274.4	0.0	11274.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	121.4	1.1
10°-20°	460.8	4.1
20°-30°	940.1	8.3
30°-40°	1671.9	14.8
40°-50°	2471.5	21.9
50°-60°	2829.7	25.1
60°-70°	2158.9	19.1
70°-80°	604.8	5.4
80°-90°	15.2	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°	11274.4	100.0
0°-180°	11274.4	100.0

**Coefficient of Utilization**



REPORT NUMBER: P635524

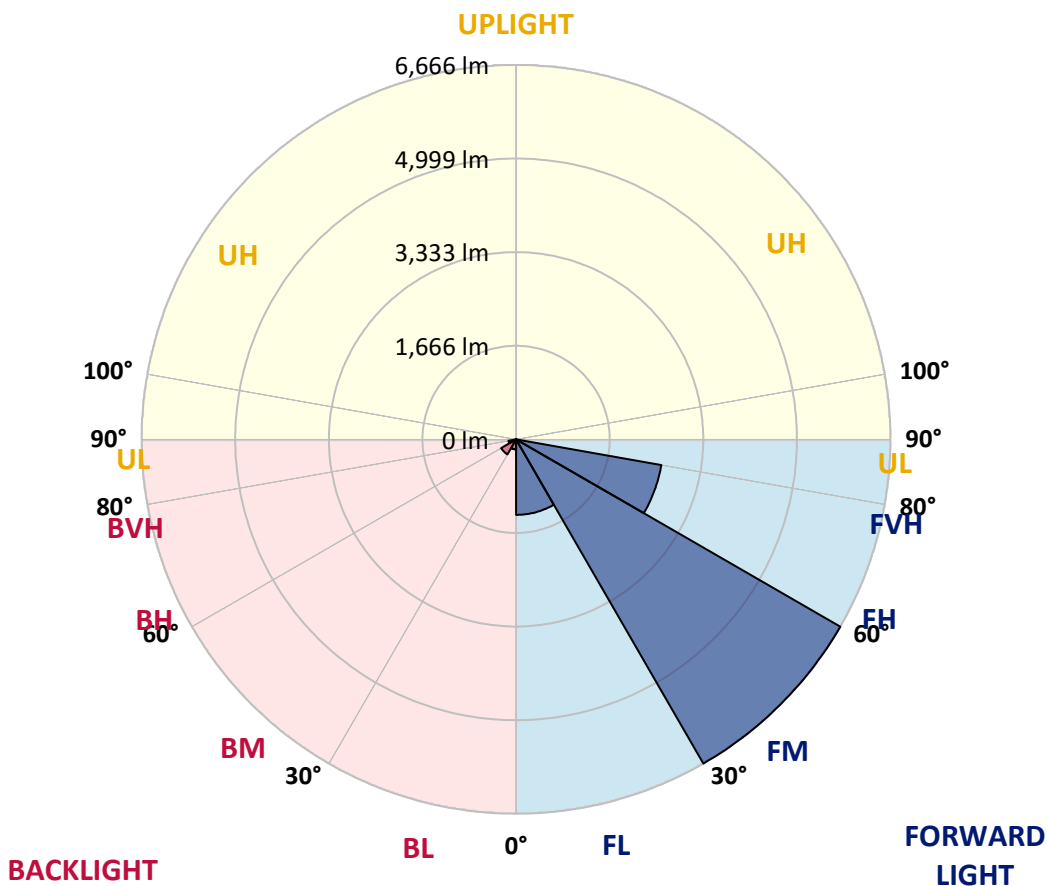
CATALOG NUMBER: GWS-SA3D-830-U-T2R-W-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1344.4	11.9			
FM (30°-60°)	6665.6	59.1			
FH (60°-80°)	2626.7	23.3			G2/5000
FVH (80°-90°)	14.3	0.1			G1/100
BL (0°-30°)	177.9	1.6	B1/500		
BM (30°-60°)	307.6	2.7	B1/1000		
BH (60°-80°)	137.0	1.2	B1/500		G1/500
BVH (80°-90°)	0.9	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





REPORT NUMBER: P635524

CATALOG NUMBER: GWS-SA3D-830-U-T2R-W-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	998.2	998.2	998.2	998.2	998.2	998.2	998.2	998.2	998.2	998.2	998.2
2.5°	1538.4	1561.4	1543.4	1513.3	1455.2	1399.1	1326.9	1227.7	1148.5	1138.5	1064.3
5°	2077.6	2075.6	2036.5	1997.4	1936.3	1840.0	1694.7	1510.3	1332.9	1317.9	1151.5
7.5°	2398.3	2401.3	2379.2	2349.2	2289.0	2189.8	2038.5	1816.0	1556.4	1526.4	1270.8
10°	2667.9	2666.9	2650.8	2636.8	2582.7	2516.5	2354.2	2109.6	1797.0	1749.8	1404.1
12.5°	2870.3	2877.3	2885.3	2899.4	2876.3	2811.2	2657.8	2391.3	2040.5	1988.4	1556.4
15°	3030.7	3032.7	3062.7	3116.9	3135.9	3101.8	2962.5	2663.9	2281.0	2235.9	1731.8
17.5°	3078.8	3082.8	3133.9	3233.1	3333.3	3352.4	3247.1	2938.5	2517.5	2469.4	1902.2
20°	3180.0	3189.0	3227.1	3314.3	3440.6	3542.8	3501.7	3216.1	2754.1	2690.9	2076.6
22.5°	3498.7	3503.7	3490.7	3501.7	3566.8	3685.1	3710.2	3484.7	2996.6	2929.4	2265.0
25°	4046.9	4048.9	3957.7	3871.5	3822.4	3844.5	3899.6	3732.2	3237.1	3171.0	2440.4
27.5°	4616.2	4623.2	4513.9	4367.6	4192.2	4092.0	4076.0	3958.7	3479.7	3406.5	2613.7
30°	5152.3	5152.3	5037.1	4858.7	4624.2	4428.7	4313.5	4187.2	3739.2	3659.0	2791.1
32.5°	5634.4	5630.4	5483.1	5289.6	5058.1	4843.7	4601.1	4425.7	4027.9	3938.7	2995.6
35°	6032.3	6022.2	5854.9	5669.5	5421.9	5262.6	4992.0	4682.3	4340.5	4251.4	3206.1
37.5°	6332.9	6321.9	6168.6	5972.1	5742.6	5639.4	5412.9	4990.0	4670.3	4589.1	3439.6
40°	6496.3	6474.2	6368.0	6221.7	6029.3	5939.1	5844.9	5371.8	5058.1	4956.9	3715.2
42.5°	6544.4	6518.3	6448.2	6380.0	6263.8	6192.6	6293.8	5802.8	5484.1	5396.9	4029.9
45°	6402.1	6387.0	6381.0	6430.1	6451.2	6471.2	6720.8	6279.8	5954.1	5888.0	4425.7
47.5°	6059.3	6055.3	6108.4	6312.9	6535.4	6746.8	7184.8	6868.1	6563.4	6492.3	4979.0
50°	5425.9	5467.0	5615.4	5974.1	6419.1	6903.2	7618.8	7683.9	7549.6	7445.4	5700.5
52.5°	4435.8	4514.9	4847.7	5392.9	6032.3	6859.1	7819.2	8337.3	8474.6	8366.4	6217.7
55°	3480.7	3554.8	3851.5	4543.0	5395.9	6523.3	7828.2	8562.8	8862.5	8762.3	6567.4
57.5°	2592.7	2660.9	2930.4	3591.9	4530.0	5862.9	7613.7	8688.1	9322.5	9258.4	7119.7
60°	1694.7	1761.9	2005.4	2583.7	3513.7	4900.8	7085.6	8662.1	9948.9	9942.9	7798.2
62.5°	940.1	993.2	1169.6	1620.6	2452.4	3795.3	6255.8	8400.5	10555.2	10593.3	8357.4
65°	481.1	515.1	622.4	891.0	1484.3	2690.9	5164.4	7801.2	10835.8	10932.0	8504.7
67.5°	314.7	325.7	351.8	463.0	794.7	1692.7	3886.5	6840.0	10441.0	10553.2	8010.6
70°	255.6	264.6	279.6	308.7	409.9	899.0	2552.6	5463.0	8724.2	8800.4	6379.0
72.5°	187.4	199.4	228.5	247.5	295.7	493.1	1327.9	3585.9	5991.2	6125.5	4008.8
75°	138.3	145.3	169.4	195.4	241.5	311.7	508.1	1885.1	3093.8	3015.6	1683.7
77.5°	83.2	88.2	108.2	125.3	172.4	194.4	177.4	696.5	941.1	884.9	406.9
80°	41.1	46.1	71.2	94.2	110.2	78.2	74.2	194.4	209.5	209.5	102.2
82.5°	14.0	18.0	38.1	62.1	54.1	30.1	35.1	50.1	56.1	59.1	30.1
85°	0.0	0.0	9.0	18.0	8.0	4.0	9.0	11.0	14.0	15.0	10.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	3.0	4.0	4.0
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: P635524  
 CATALOG NUMBER: GWS-SA3D-830-U-T2R-W-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	998.2	998.2	998.2	998.2	998.2	998.2	998.2	998.2	998.2	998.2	998.2
2.5°	1024.3	977.1	906.0	841.9	792.7	746.6	711.6	683.5	678.5	662.5	664.5
5°	1070.4	985.2	853.9	752.7	681.5	633.4	593.3	563.2	550.2	537.2	527.2
7.5°	1141.5	1018.2	833.8	710.6	627.4	553.2	491.1	441.0	416.9	401.9	391.9
10°	1228.7	1064.3	834.8	685.5	562.2	449.0	363.8	308.7	282.6	274.6	273.6
12.5°	1332.9	1122.5	842.9	644.4	468.0	333.7	269.6	244.5	236.5	229.5	229.5
15°	1443.2	1187.6	842.9	569.3	356.8	260.6	233.5	217.5	207.5	203.4	201.4
17.5°	1559.4	1248.7	822.8	466.0	273.6	229.5	207.5	192.4	184.4	178.4	176.4
20°	1683.7	1306.9	772.7	356.8	234.5	205.5	184.4	169.4	161.4	155.3	155.3
22.5°	1810.0	1361.0	691.5	274.6	207.5	182.4	162.4	148.3	140.3	134.3	134.3
25°	1927.2	1397.1	587.3	226.5	187.4	162.4	144.3	130.3	121.3	117.3	115.3
27.5°	2036.5	1420.1	472.0	199.4	168.4	145.3	126.3	113.2	106.2	103.2	101.2
30°	2149.7	1426.1	360.8	181.4	152.3	128.3	110.2	100.2	94.2	90.2	90.2
32.5°	2260.0	1419.1	275.6	166.4	138.3	113.2	98.2	89.2	84.2	81.2	80.2
35°	2372.2	1387.1	223.5	153.3	124.3	99.2	87.2	80.2	77.2	73.2	73.2
37.5°	2494.5	1344.0	194.4	140.3	110.2	89.2	78.2	73.2	69.2	66.1	65.1
40°	2646.8	1293.8	178.4	129.3	97.2	80.2	70.2	65.1	62.1	59.1	58.1
42.5°	2827.2	1244.7	170.4	117.3	87.2	71.2	63.1	57.1	54.1	50.1	49.1
45°	3082.8	1233.7	161.4	104.2	78.2	64.1	55.1	49.1	45.1	42.1	41.1
47.5°	3493.7	1264.8	146.3	90.2	69.2	56.1	47.1	42.1	37.1	34.1	32.1
50°	3901.6	1256.8	131.3	78.2	61.1	48.1	40.1	35.1	30.1	27.1	26.1
52.5°	4124.1	1218.7	117.3	69.2	53.1	41.1	34.1	28.1	25.1	22.0	21.0
55°	4325.5	1203.6	103.2	60.1	45.1	36.1	28.1	23.1	21.0	18.0	17.0
57.5°	4720.4	1238.7	91.2	52.1	39.1	31.1	24.1	19.0	17.0	14.0	13.0
60°	5133.3	1242.7	78.2	45.1	34.1	26.1	19.0	15.0	13.0	10.0	9.0
62.5°	5348.8	1141.5	64.1	38.1	28.1	22.0	16.0	12.0	10.0	6.0	6.0
65°	5168.4	923.0	54.1	31.1	22.0	17.0	12.0	9.0	6.0	3.0	1.0
67.5°	4574.1	656.4	45.1	25.1	16.0	12.0	9.0	6.0	1.0	0.0	0.0
70°	3349.4	374.8	35.1	18.0	12.0	8.0	6.0	3.0	0.0	0.0	0.0
72.5°	2058.5	200.4	26.1	12.0	9.0	6.0	5.0	2.0	0.0	0.0	0.0
75°	780.7	96.2	16.0	8.0	7.0	5.0	3.0	1.0	0.0	0.0	0.0
77.5°	211.5	47.1	9.0	6.0	5.0	3.0	2.0	0.0	0.0	0.0	0.0
80°	55.1	22.0	6.0	4.0	3.0	2.0	0.0	0.0	0.0	0.0	0.0
82.5°	19.0	10.0	3.0	3.0	2.0	1.0	0.0	0.0	0.0	0.0	0.0
85°	8.0	4.0	2.0	2.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.0	1.0	1.0	1.0	1.0	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)