

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: P640523

Luminaire Tested: GWS-SA5E-722-U-T2-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P640523  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-20)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA5E-722-U-T2-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (80) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

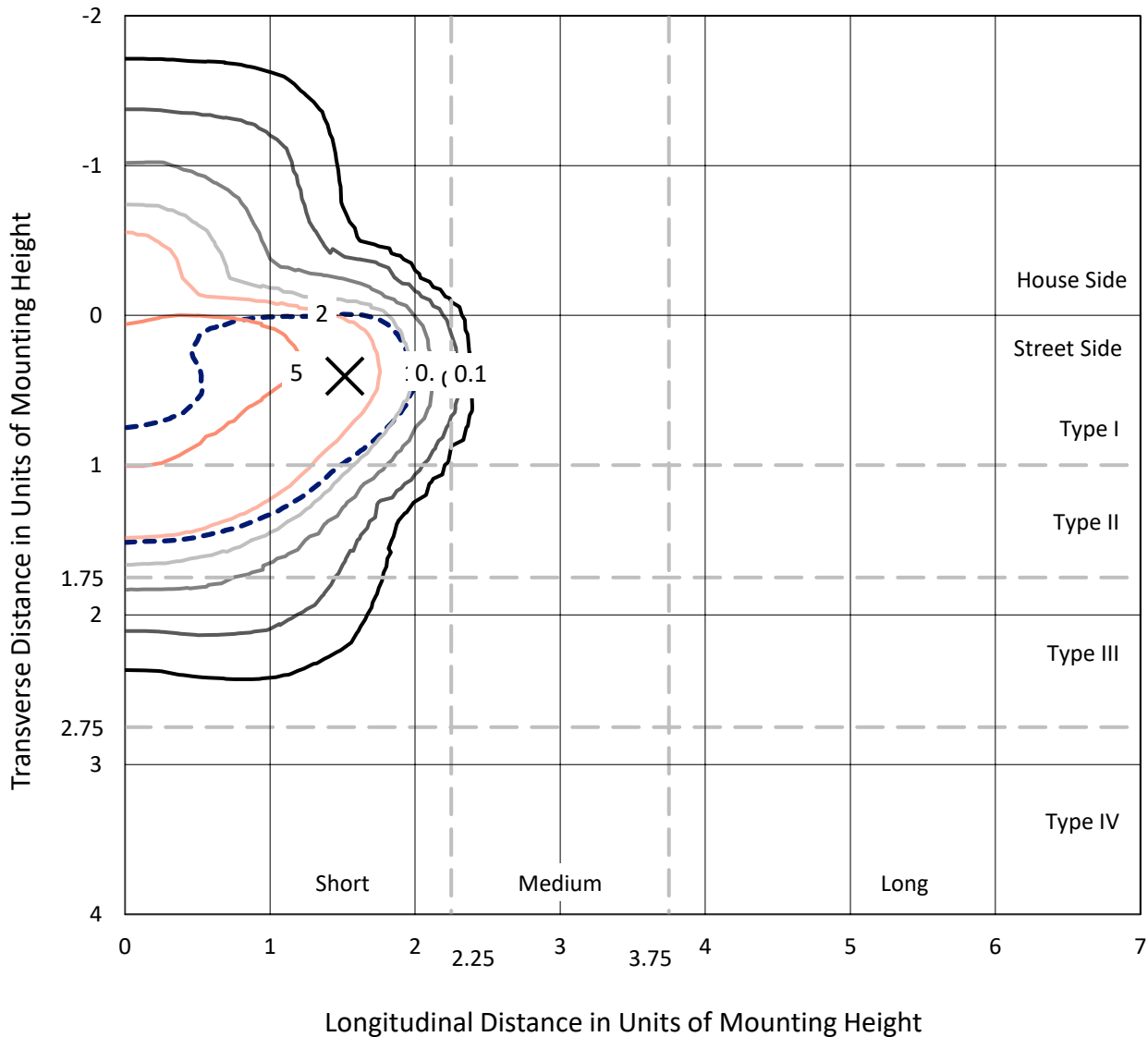
Lumens per Lamp: N/A  
Luminaire Lumens: 16425.4 lumens  
Efficiency: N/A  
Efficacy: 60.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1  
  
Input Watts (W): 269.6  
Input Voltage (V): 120  
Input Current (Ain): 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: P640523  
 CATALOG NUMBER: GWS-SA5E-722-U-T2-W-GRSBK

### Iso-Footcandle Lines of Horizontal Illumination

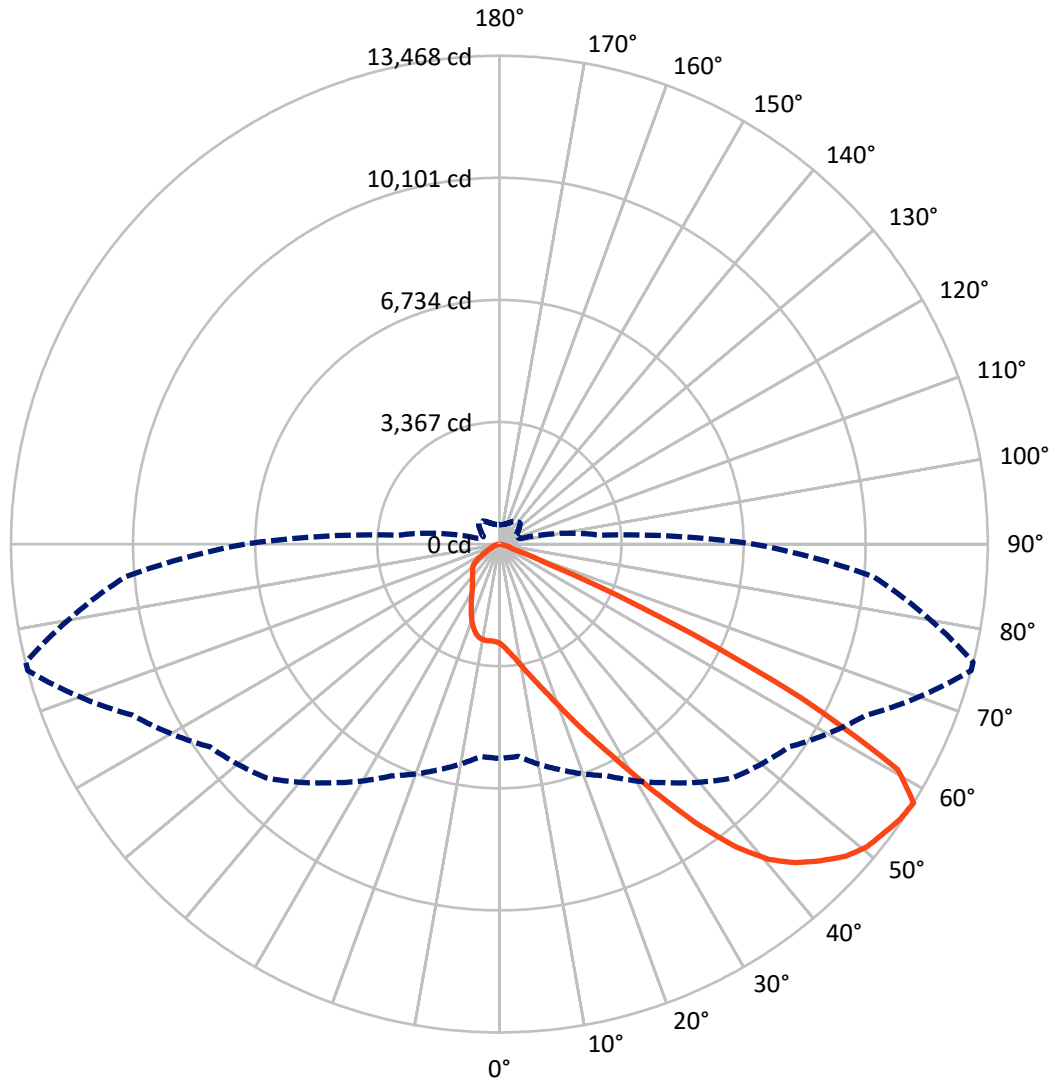
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.2 fc  
 Type II - Short - N/A

REPORT NUMBER: P640523  
CATALOG NUMBER: GWS-SA5E-722-U-T2-W-GRSBK

### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

REPORT NUMBER: P640523

CATALOG NUMBER: GWS-SA5E-722-U-T2-W-GRSBK

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2683.1	0.0	2683.1
	% Fixture	16.3	0.0	16.3
<b>Street Side</b>	Lumens	13742.4	0.0	13742.4
	% Fixture	83.7	0.0	83.7
<b>Total</b>	Lumens	16425.4	0.0	16425.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	278.8	1.7
10°-20°	905.6	5.5
20°-30°	1658.3	10.1
30°-40°	2751.3	16.8
40°-50°	4201.9	25.6
50°-60°	4721.5	28.7
60°-70°	1741.5	10.6
70°-80°	166.5	1.0
80°-90°	0.1	0.0
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°	16425.4	100.0
0°-180°	16425.4	100.0

**Coefficient of Utilization**



REPORT NUMBER: P640523

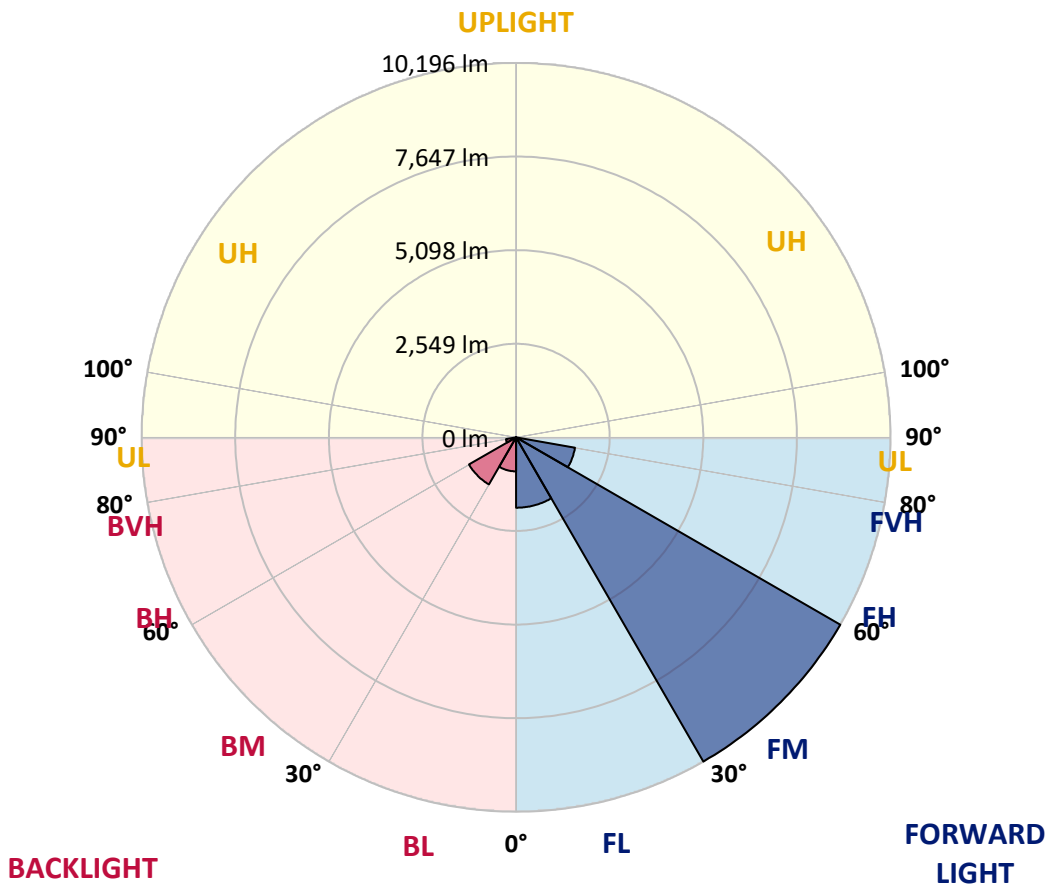
CATALOG NUMBER: GWS-SA5E-722-U-T2-W-GRSBK

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1916.8	11.7			
FM (30°-60°)	10196.1	62.1			
FH (60°-80°)	1629.3	9.9			G1/1800
FVH (80°-90°)	0.1	0.0			G0/10
BL (0°-30°)	925.8	5.6	B2/1000		
BM (30°-60°)	1478.5	9.0	B2/2500		
BH (60°-80°)	278.6	1.7	B1/500		G1/500
BVH (80°-90°)	0.1	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-G1**

Type II Short





REPORT NUMBER: P640523

CATALOG NUMBER: GWS-SA5E-722-U-T2-W-GRSBK

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2739.5	2739.5	2739.5	2739.5	2739.5	2739.5	2739.5	2739.5	2739.5	2739.5	2739.5
2.5°	3060.7	3092.4	3082.5	3062.6	3050.7	3009.1	2983.4	2908.0	2854.5	2848.6	2799.0
5°	3447.2	3441.3	3433.3	3409.5	3389.7	3324.3	3247.0	3120.1	3007.1	2993.3	2888.2
7.5°	3659.3	3663.3	3667.2	3663.3	3649.4	3599.8	3514.6	3365.9	3193.5	3181.6	3015.1
10°	3746.5	3754.5	3774.3	3811.9	3845.6	3841.7	3792.1	3639.5	3427.4	3407.6	3183.6
12.5°	3788.2	3798.1	3829.8	3901.2	3992.3	4063.7	4071.6	3934.9	3700.9	3669.2	3383.8
15°	3845.6	3855.6	3895.2	3988.4	4121.2	4261.9	4353.1	4265.9	4004.2	3970.5	3603.8
17.5°	3871.4	3885.3	3942.8	4065.7	4238.1	4454.2	4660.4	4652.4	4363.0	4337.3	3859.5
20°	3921.0	3930.9	3982.4	4115.2	4323.4	4634.6	4981.5	5106.4	4801.1	4763.4	4168.8
22.5°	4077.6	4081.5	4105.3	4188.6	4382.8	4765.4	5308.6	5635.7	5318.5	5268.9	4515.7
25°	4333.3	4331.3	4341.2	4355.1	4497.8	4898.2	5623.8	6232.3	5911.2	5857.7	4908.2
27.5°	4658.4	4658.4	4682.2	4642.5	4700.0	5062.8	5935.0	6918.2	6601.0	6525.7	5338.3
30°	5041.0	5039.0	5094.5	5031.1	5048.9	5322.5	6270.0	7665.5	7433.6	7340.4	5833.9
32.5°	5560.3	5548.4	5611.9	5524.6	5465.2	5714.9	6678.3	8446.5	8430.7	8288.0	6456.3
35°	6216.5	6196.6	6216.5	6131.2	6024.2	6264.0	7213.6	9225.6	9536.8	9386.2	7197.7
37.5°	6868.6	6932.1	6953.9	6807.2	6720.0	6959.8	7857.8	9923.4	10593.4	10436.8	7968.8
40°	7637.8	7617.9	7693.3	7528.7	7473.2	7738.9	8488.2	10442.7	11429.9	11281.2	8654.7
42.5°	8204.7	8240.4	8333.6	8242.4	8198.8	8448.5	9017.4	10746.0	12010.7	11864.0	9144.3
45°	8884.6	8910.4	8946.1	8870.8	8825.2	9071.0	9400.0	10878.8	12452.8	12294.2	9473.4
47.5°	9620.1	9639.9	9639.9	9485.3	9338.6	9439.7	9655.7	10954.1	12859.1	12706.5	9717.2
50°	10147.4	10157.3	10244.5	10135.5	9816.3	9659.7	9772.7	11027.5	13128.7	12986.0	9796.5
52.5°	9679.5	9667.6	9955.1	10181.1	10266.3	9955.1	9974.9	11134.5	13259.6	13136.7	9859.9
55°	8151.2	8131.4	8535.8	9084.8	9836.1	10234.6	10218.7	11198.0	13404.3	13328.9	10089.9
57.5°	5909.2	5875.5	6438.5	7049.0	8034.2	9114.6	9748.9	11162.3	13467.7	13461.7	10357.5
60°	3552.3	3524.5	4055.8	4698.0	5459.2	6545.5	7598.1	9998.7	12619.3	12631.2	9661.7
62.5°	2186.5	2212.2	2692.0	3019.0	3302.5	3629.6	4238.1	6725.9	9348.5	9425.8	6789.4
65°	1470.9	1490.7	1934.7	2347.0	2347.0	1918.9	1647.3	3215.3	4987.4	4856.6	3211.3
67.5°	987.2	1009.0	1359.9	1841.5	1910.9	1338.0	668.0	959.4	1389.6	1348.0	794.9
70°	580.8	604.6	905.9	1262.7	1391.6	931.7	446.0	406.4	394.5	382.6	309.2
72.5°	259.7	269.6	461.9	642.3	586.8	392.5	315.2	325.1	307.3	301.3	251.8
75°	79.3	83.3	118.9	138.8	140.7	140.7	190.3	255.7	241.8	243.8	194.3
77.5°	19.8	19.8	31.7	29.7	15.9	13.9	35.7	57.5	59.5	53.5	39.6
80°	0.0	0.0	0.0	0.0	0.0	2.0	2.0	2.0	2.0	2.0	2.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	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



REPORT NUMBER: P640523

CATALOG NUMBER: GWS-SA5E-722-U-T2-W-GRSBK

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2739.5	2739.5	2739.5	2739.5	2739.5	2739.5	2739.5	2739.5	2739.5	2739.5	2739.5
2.5°	2777.2	2725.7	2692.0	2644.4	2610.7	2575.0	2543.3	2517.5	2503.6	2499.7	2501.7
5°	2840.6	2759.4	2680.1	2588.9	2525.4	2466.0	2418.4	2380.7	2362.9	2356.9	2356.9
7.5°	2937.8	2824.8	2684.0	2541.3	2434.3	2341.1	2285.6	2244.0	2228.1	2224.1	2212.2
10°	3064.6	2910.0	2678.1	2456.1	2305.4	2208.3	2168.6	2156.7	2162.7	2164.7	2162.7
12.5°	3217.3	2999.2	2640.4	2331.2	2168.6	2109.2	2113.1	2144.8	2180.5	2198.4	2202.3
15°	3379.8	3080.5	2555.2	2182.5	2051.7	2049.7	2107.2	2180.5	2249.9	2279.6	2287.6
17.5°	3562.2	3145.9	2424.3	2023.9	1950.6	2008.1	2111.1	2224.1	2317.3	2366.9	2376.8
20°	3762.4	3199.4	2257.8	1875.2	1861.4	1964.5	2107.2	2245.9	2360.9	2416.4	2426.3
22.5°	3970.5	3237.1	2065.5	1738.5	1780.1	1914.9	2069.5	2204.3	2313.3	2376.8	2384.7
25°	4208.4	3241.0	1869.3	1623.5	1704.8	1847.5	1978.3	2089.3	2180.5	2236.0	2242.0
27.5°	4416.5	3193.5	1694.9	1530.3	1635.4	1764.2	1851.5	1912.9	1976.3	2008.1	2010.0
30°	4656.4	3110.2	1530.3	1455.0	1564.0	1661.2	1704.8	1718.6	1724.6	1730.5	1722.6
32.5°	4941.9	3009.1	1407.4	1381.7	1482.8	1548.2	1560.1	1532.3	1498.6	1451.0	1439.1
35°	5292.7	2917.9	1306.3	1310.3	1393.6	1433.2	1423.3	1363.8	1298.4	1240.9	1231.0
37.5°	5673.3	2840.6	1229.0	1240.9	1296.4	1324.2	1294.4	1229.0	1199.3	1149.7	1151.7
40°	6010.3	2777.2	1159.6	1171.5	1197.3	1223.1	1175.5	1131.9	1187.4	1183.4	1187.4
42.5°	6250.2	2723.7	1100.2	1094.2	1112.1	1129.9	1094.2	1072.4	1165.6	1139.8	1153.7
45°	6390.9	2674.1	1050.6	1014.9	1042.7	1074.4	1050.6	1022.9	1054.6	935.6	925.7
47.5°	6486.1	2646.4	1007.0	937.6	987.2	1042.7	993.1	925.7	880.1	777.1	769.1
50°	6496.0	2632.5	955.5	858.3	921.8	981.2	923.7	830.6	765.2	719.6	713.6
52.5°	6547.5	2660.2	884.1	757.2	826.6	921.8	882.1	789.0	699.7	660.1	652.2
55°	6777.5	2777.2	765.2	618.5	719.6	876.2	848.4	703.7	618.5	594.7	588.7
57.5°	7015.3	2801.0	602.6	489.6	626.4	810.8	775.1	648.2	565.0	537.2	531.3
60°	6414.7	2307.4	452.0	404.4	553.1	749.3	717.6	614.5	517.4	483.7	477.7
62.5°	4214.4	1246.9	358.8	342.9	465.8	634.3	654.2	555.0	461.9	426.2	424.2
65°	1942.6	578.8	275.5	271.6	364.7	505.5	563.0	485.7	390.5	358.8	358.8
67.5°	529.3	287.4	216.1	200.2	247.8	339.0	410.3	362.8	277.5	239.9	237.9
70°	263.6	231.9	194.3	172.5	178.4	210.1	241.8	202.2	140.7	115.0	113.0
72.5°	216.1	190.3	164.5	146.7	134.8	128.8	124.9	101.1	65.4	49.6	47.6
75°	160.6	136.8	117.0	95.2	81.3	75.3	67.4	49.6	27.8	15.9	13.9
77.5°	35.7	33.7	31.7	23.8	21.8	17.8	13.9	9.9	4.0	0.0	0.0
80°	2.0	2.0	2.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	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)