

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: P637968

Luminaire Tested: GWS-SA4D-830-U-AFL-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P637968  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-47)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA4D-830-U-AFL-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (64) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

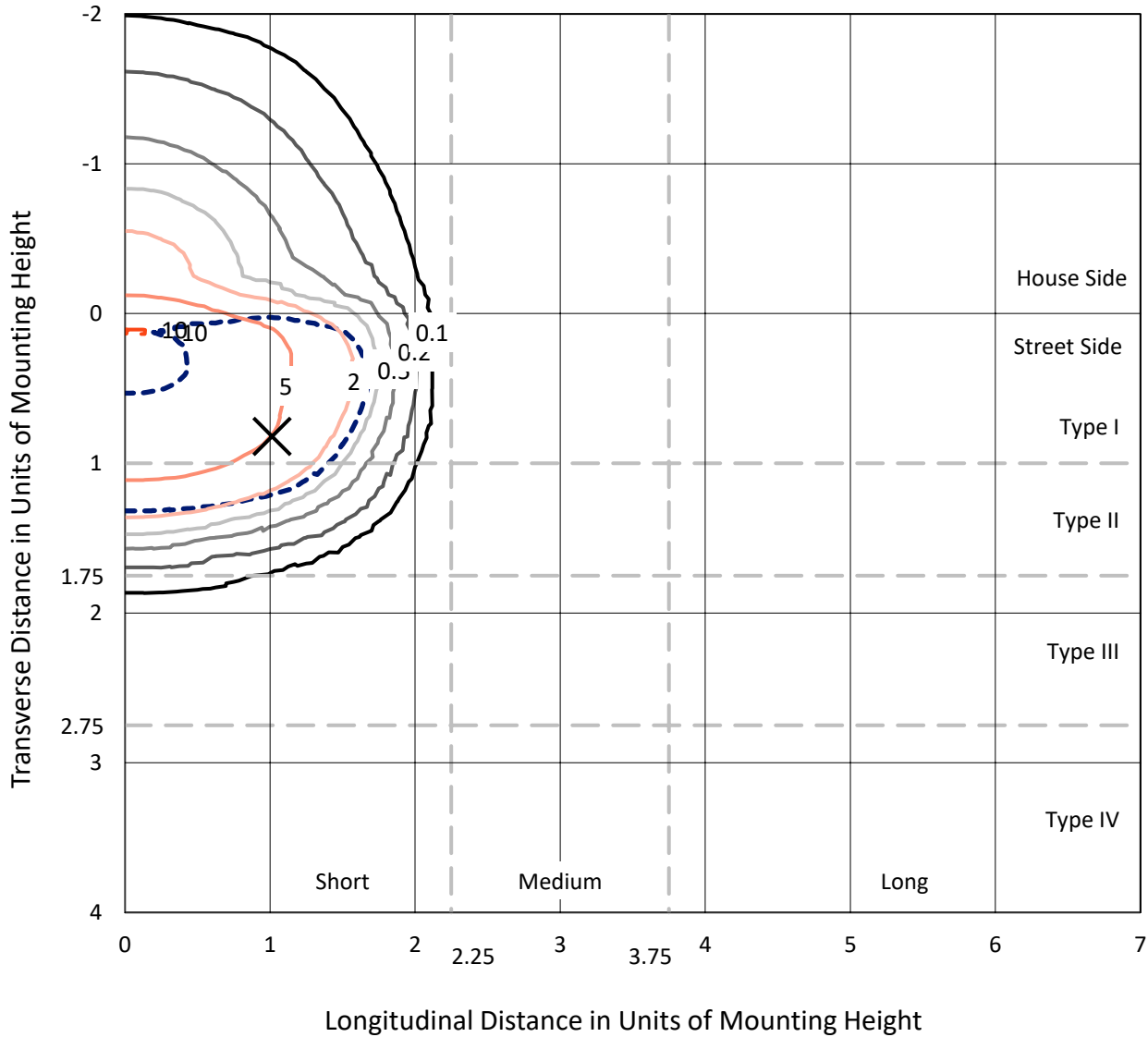
Lumens per Lamp: N/A  
Luminaire Lumens: 17648.5 lumens  
Efficiency: N/A  
Efficacy: 108.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G1  
  
Input Watts (W): 162.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
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: P637968  
 CATALOG NUMBER: GWS-SA4D-830-U-AFL-W-GRSWH

### Iso-Footcandle Lines of Horizontal Illumination

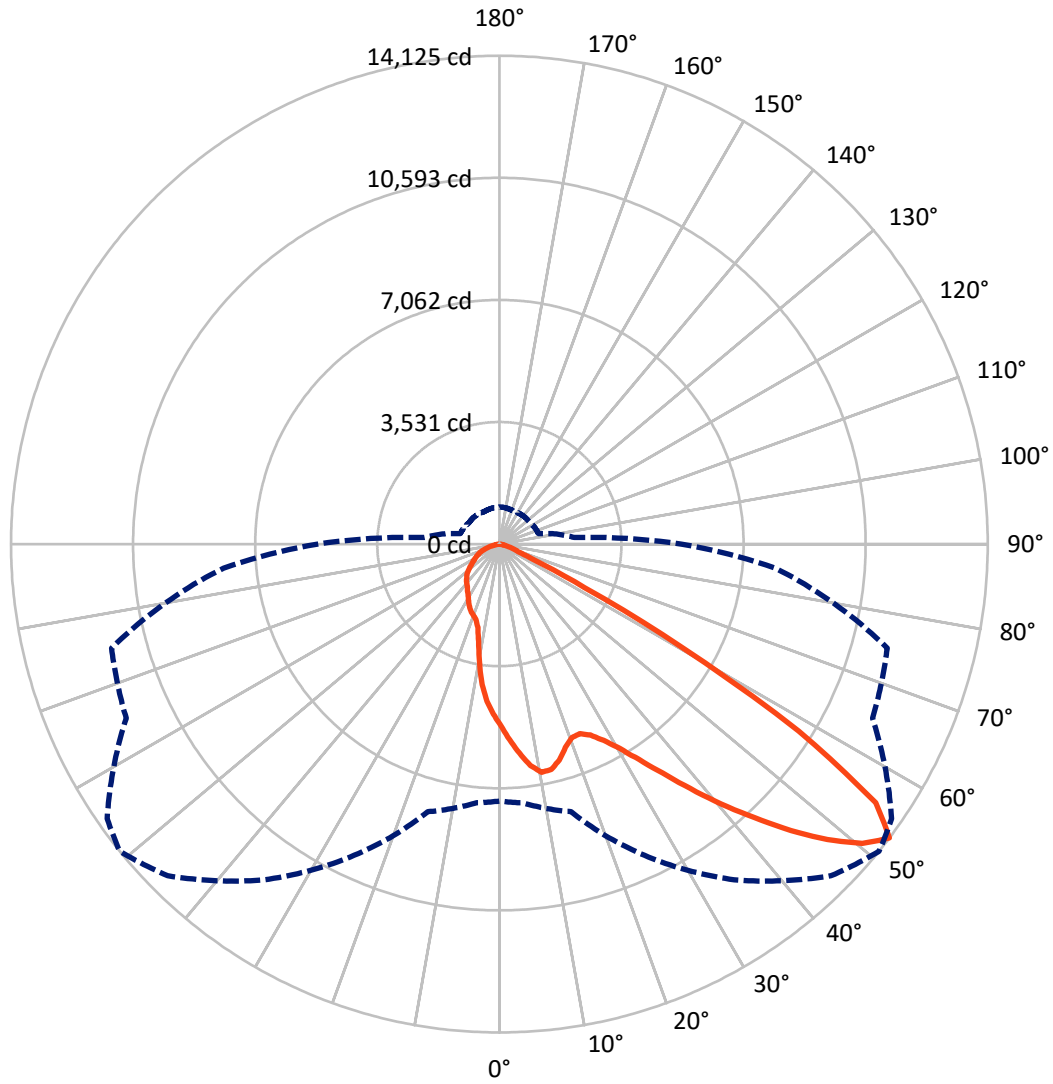
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.3 fc  
 Type II - Short - N/A

REPORT NUMBER: P637968  
CATALOG NUMBER: GWS-SA4D-830-U-AFL-W-GRSWH

### Luminous Intensity Polar Plot



— Vertical Plane Through 51-Deg Lateral    - - - Horizontal Cone Through 52.5-Deg Vertical

REPORT NUMBER: P637968

CATALOG NUMBER: GWS-SA4D-830-U-AFL-W-GRSWH

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3438.7	0.0	3438.7
	% Fixture	19.5	0.0	19.5
<b>Street Side</b>	Lumens	14209.8	0.0	14209.8
	% Fixture	80.5	0.0	80.5
<b>Total</b>	Lumens	17648.5	0.0	17648.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	490.3	2.8
10°-20°	1274.1	7.2
20°-30°	2071.6	11.7
30°-40°	3283.1	18.6
40°-50°	4951.6	28.1
50°-60°	4283.5	24.3
60°-70°	971.1	5.5
70°-80°	286.3	1.6
80°-90°	36.9	0.2
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°	17648.5	100.0
0°-180°	17648.5	100.0

**Coefficient of Utilization**



REPORT NUMBER: P637968

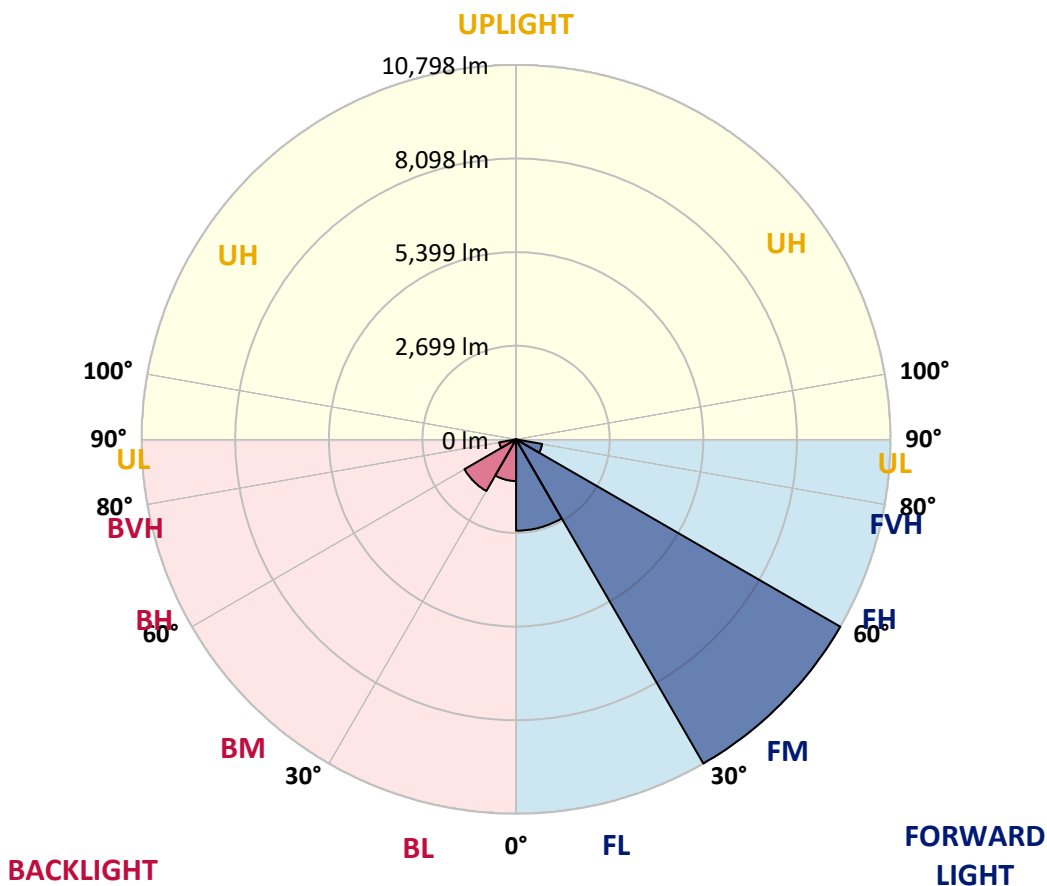
CATALOG NUMBER: GWS-SA4D-830-U-AFL-W-GRSWH

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2634.1	14.9			
FM (30°-60°)	10797.6	61.2			
FH (60°-80°)	764.2	4.3			G1/1800
FVH (80°-90°)	13.9	0.1			G1/100
BL (0°-30°)	1202.0	6.8	B3/2500		
BM (30°-60°)	1720.5	9.7	B2/2500		
BH (60°-80°)	493.2	2.8	B1/500		G1/500
BVH (80°-90°)	23.0	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G1**

Type II Short





REPORT NUMBER: P637968

CATALOG NUMBER: GWS-SA4D-830-U-AFL-W-GRSWH

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	51°	55°	65°	75°	85°
0°	5254.8	5254.8	5254.8	5254.8	5254.8	5254.8	5254.8	5254.8	5254.8	5254.8	5254.8
2.5°	5855.9	5889.4	5837.8	5818.3	5786.2	5730.4	5666.2	5648.1	5510.1	5419.4	5317.6
5°	6444.4	6462.6	6420.7	6378.9	6299.4	6200.4	6076.3	6049.8	5798.7	5590.9	5374.8
7.5°	6575.5	6568.5	6604.8	6628.5	6618.8	6579.7	6469.5	6417.9	6118.1	5789.0	5469.6
10°	6056.7	6017.7	6151.6	6310.5	6501.6	6722.0	6709.4	6705.2	6444.4	6055.3	5590.9
12.5°	5369.2	5349.7	5458.5	5657.9	6019.1	6507.2	6689.9	6832.1	6738.7	6309.2	5726.2
15°	4975.9	4968.9	5042.9	5186.5	5473.8	6090.2	6480.7	6762.4	6991.1	6581.1	5869.9
17.5°	4904.8	4909.0	4934.1	5016.4	5222.8	5730.4	6182.2	6575.5	7187.7	6879.5	6049.8
20°	5112.6	5140.5	5097.2	5109.8	5221.4	5600.7	5978.6	6387.3	7313.3	7179.4	6243.6
22.5°	5574.2	5564.4	5469.6	5413.8	5415.2	5680.2	5956.3	6299.4	7395.5	7470.9	6419.3
25°	6097.2	6086.0	5973.1	5848.9	5770.8	5896.4	6116.7	6392.8	7469.5	7737.2	6560.2
27.5°	6715.0	6680.1	6554.6	6395.6	6222.7	6277.1	6426.3	6645.3	7583.8	7999.4	6653.6
30°	7313.3	7353.7	7173.8	6985.5	6802.8	6769.4	6855.8	7053.9	7816.7	8306.2	6765.2
32.5°	8106.8	8092.8	7893.4	7648.0	7387.2	7362.1	7430.4	7611.7	8235.1	8730.2	6935.3
35°	9067.7	9070.5	8787.4	8455.4	8084.5	8017.5	8131.9	8307.6	8858.5	9304.7	7204.5
37.5°	10066.2	10062.0	9815.2	9438.6	8932.4	8837.6	8968.6	9099.7	9638.1	10087.1	7622.9
40°	10766.3	10794.2	10678.4	10480.4	10000.7	9769.1	9884.9	9975.5	10486.0	11007.5	8173.7
42.5°	11163.7	11205.6	11230.7	11349.2	11096.8	10850.0	10808.1	10855.5	11243.2	11862.4	8691.1
45°	11248.8	11304.6	11487.3	11926.6	12024.2	11954.5	11817.8	11703.5	11808.0	12469.1	9030.0
47.5°	10873.7	10971.3	11361.8	12130.2	12700.6	12919.5	12767.5	12593.2	12134.4	12625.3	8995.1
50°	9387.0	9501.4	10381.4	11714.6	12796.8	13594.5	13608.5	13350.5	12095.3	12174.8	8557.2
52.5°	7431.8	7509.9	8013.4	9930.9	11852.7	13566.6	14124.5	13848.3	11907.1	11611.4	8009.2
55°	4441.8	4567.3	5037.3	6551.8	9233.6	12024.2	13212.4	13346.3	11815.0	11138.6	7635.4
57.5°	1499.2	1560.6	2009.6	2893.8	5441.7	8804.1	10208.4	10752.3	10725.8	10416.2	6906.0
60°	714.0	728.0	818.6	1097.5	2178.4	4600.8	6042.8	6670.4	7242.1	7299.3	4296.8
62.5°	543.9	552.3	598.3	658.2	875.8	1938.5	2769.7	3249.4	3471.2	2978.9	1564.7
65°	454.6	461.6	496.5	534.1	595.5	839.5	1062.7	1225.9	1104.5	860.5	746.1
67.5°	379.3	384.9	411.4	451.8	493.7	562.0	589.9	606.6	635.9	714.0	686.1
70°	297.0	302.6	330.5	365.4	405.8	422.6	449.1	465.8	524.4	624.8	622.0
72.5°	228.7	235.7	251.0	273.3	306.8	323.5	352.8	372.4	405.8	486.7	520.2
75°	167.4	171.5	185.5	192.5	196.6	192.5	221.7	244.1	288.7	319.4	327.7
77.5°	68.3	76.7	73.9	73.9	87.9	106.0	121.3	135.3	166.0	184.1	185.5
80°	27.9	30.7	36.3	40.4	48.8	62.8	72.5	78.1	92.0	103.2	111.6
82.5°	16.7	18.1	20.9	22.3	27.9	36.3	41.8	46.0	57.2	68.3	72.5
85°	8.4	8.4	9.8	11.2	13.9	16.7	19.5	22.3	29.3	36.3	40.4
87.5°	1.4	1.4	1.4	2.8	4.2	5.6	7.0	8.4	9.8	11.2	13.9
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: P637968

CATALOG NUMBER: GWS-SA4D-830-U-AFL-W-GRSWH

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5254.8	5254.8	5254.8	5254.8	5254.8	5254.8	5254.8	5254.8	5254.8	5254.8	5254.8
2.5°	5257.6	5182.3	5094.5	5024.7	4943.8	4883.9	4798.8	4745.8	4695.6	4653.8	4623.1
5°	5263.2	5136.3	4953.6	4791.8	4624.5	4465.5	4302.3	4169.8	4051.3	3952.3	3943.9
7.5°	5295.3	5112.6	4826.7	4543.6	4217.3	3902.1	3586.9	3330.3	3135.1	3033.2	3012.3
10°	5349.7	5109.8	4697.0	4245.2	3688.7	3181.1	2807.3	2612.1	2499.1	2458.7	2444.7
12.5°	5406.8	5102.8	4531.0	3824.0	3051.4	2606.5	2401.5	2377.8	2398.7	2401.5	2400.1
15°	5476.6	5098.6	4321.9	3330.3	2585.6	2340.1	2354.1	2404.3	2453.1	2464.3	2464.3
17.5°	5561.7	5088.9	4037.4	2847.8	2294.1	2288.5	2362.4	2429.4	2475.4	2483.8	2483.8
20°	5650.9	5063.8	3687.3	2454.5	2175.6	2256.5	2335.9	2387.5	2419.6	2430.8	2432.2
22.5°	5712.3	4996.8	3284.3	2163.0	2101.7	2195.1	2252.3	2305.3	2305.3	2277.4	2269.0
25°	5724.8	4853.2	2847.8	1963.6	2013.8	2100.3	2158.8	2128.2	2071.0	2048.7	2047.3
27.5°	5678.8	4644.0	2416.8	1821.3	1907.8	1994.3	1984.5	1939.9	1914.8	1892.5	1900.8
30°	5623.0	4393.0	2043.1	1704.2	1785.1	1870.2	1836.7	1821.3	1803.2	1778.1	1783.7
32.5°	5585.4	4112.7	1755.8	1613.5	1702.8	1716.7	1740.5	1739.1	1722.3	1674.9	1672.1
35°	5596.5	3829.6	1563.3	1539.6	1634.5	1628.9	1673.5	1665.1	1549.4	1483.9	1479.7
37.5°	5685.8	3557.6	1450.4	1481.1	1525.7	1560.6	1599.6	1499.2	1458.7	1416.9	1419.7
40°	5855.9	3305.2	1389.0	1449.0	1460.1	1511.7	1421.1	1419.7	1401.6	1363.9	1362.5
42.5°	6048.4	3091.8	1347.2	1433.6	1418.3	1428.1	1331.8	1343.0	1341.6	1317.9	1310.9
45°	6165.5	2895.2	1313.7	1376.5	1380.7	1283.0	1253.7	1266.3	1273.3	1260.7	1259.3
47.5°	6044.2	2669.3	1278.8	1288.6	1324.9	1217.5	1181.2	1182.6	1195.2	1196.6	1191.0
50°	5703.9	2416.8	1237.0	1213.3	1189.6	1149.1	1115.7	1108.7	1121.3	1133.8	1138.0
52.5°	5264.6	2175.6	1167.3	1131.0	1075.2	1075.2	1059.9	1037.6	1054.3	1071.0	1076.6
55°	4942.4	1997.1	1068.3	1027.8	966.5	987.4	984.6	965.1	987.4	999.9	1004.1
57.5°	4282.8	1605.2	940.0	927.4	875.8	900.9	906.5	881.4	870.2	873.0	877.2
60°	2542.3	1036.2	847.9	846.5	800.5	829.8	846.5	821.4	787.9	792.1	797.7
62.5°	1140.8	792.1	732.2	726.6	725.2	762.8	781.0	757.3	709.8	714.0	719.6
65°	718.2	684.7	635.9	635.9	658.2	690.3	704.3	684.7	630.4	623.4	629.0
67.5°	666.6	637.3	587.1	577.4	588.5	615.0	616.4	578.8	546.7	541.1	541.1
70°	598.3	576.0	527.2	507.6	503.4	502.1	497.9	488.1	467.2	461.6	464.4
72.5°	495.1	479.7	449.1	428.1	417.0	415.6	398.9	390.5	372.4	369.6	368.2
75°	327.7	331.9	331.9	329.1	319.4	315.2	297.0	288.7	267.8	259.4	258.0
77.5°	193.8	198.0	203.6	205.0	203.6	203.6	186.9	177.1	156.2	145.0	142.2
80°	118.5	121.3	124.1	128.3	122.7	118.5	103.2	93.4	83.7	76.7	75.3
82.5°	76.7	79.5	80.9	83.7	80.9	75.3	62.8	57.2	50.2	44.6	43.2
85°	43.2	44.6	47.4	47.4	43.2	39.0	32.1	27.9	23.7	20.9	20.9
87.5°	15.3	15.3	15.3	16.7	13.9	12.6	8.4	5.6	4.2	4.2	4.2
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)