

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: P637805

Luminaire Tested: GWS-SA4D-750-U-AFL-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P637805  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-45)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA4D-750-U-AFL-W  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND  
AUTOMOTIVE FRONTLINE OPTICS  
Light Source: (64) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

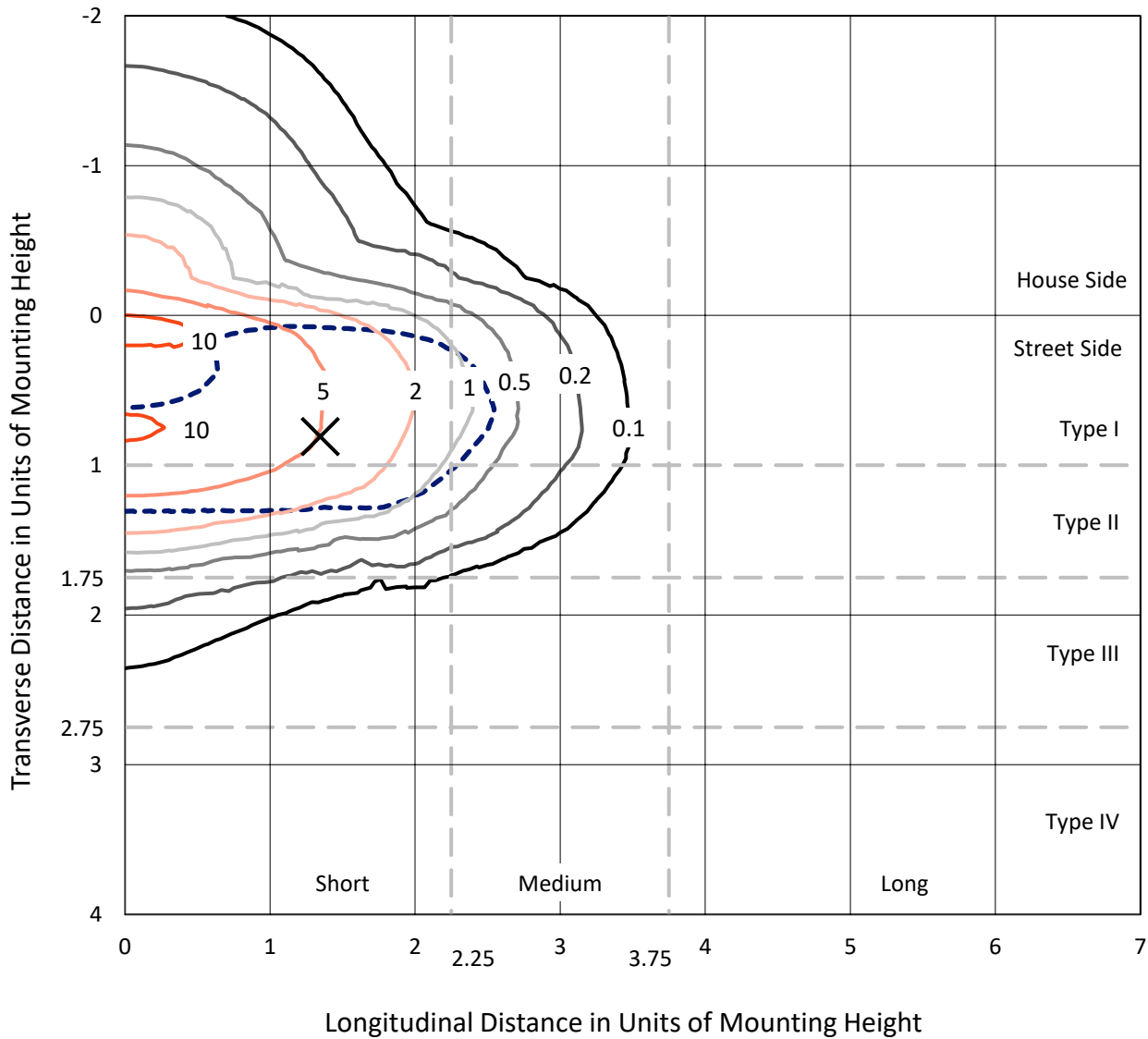
Lumens per Lamp: N/A  
Luminaire Lumens: 25509 lumens  
Efficiency: N/A  
Efficacy: 157.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2  
  
Input Watts (W): 162.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
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: P637805  
 CATALOG NUMBER: GWS-SA4D-750-U-AFL-W

### Iso-Footcandle Lines of Horizontal Illumination

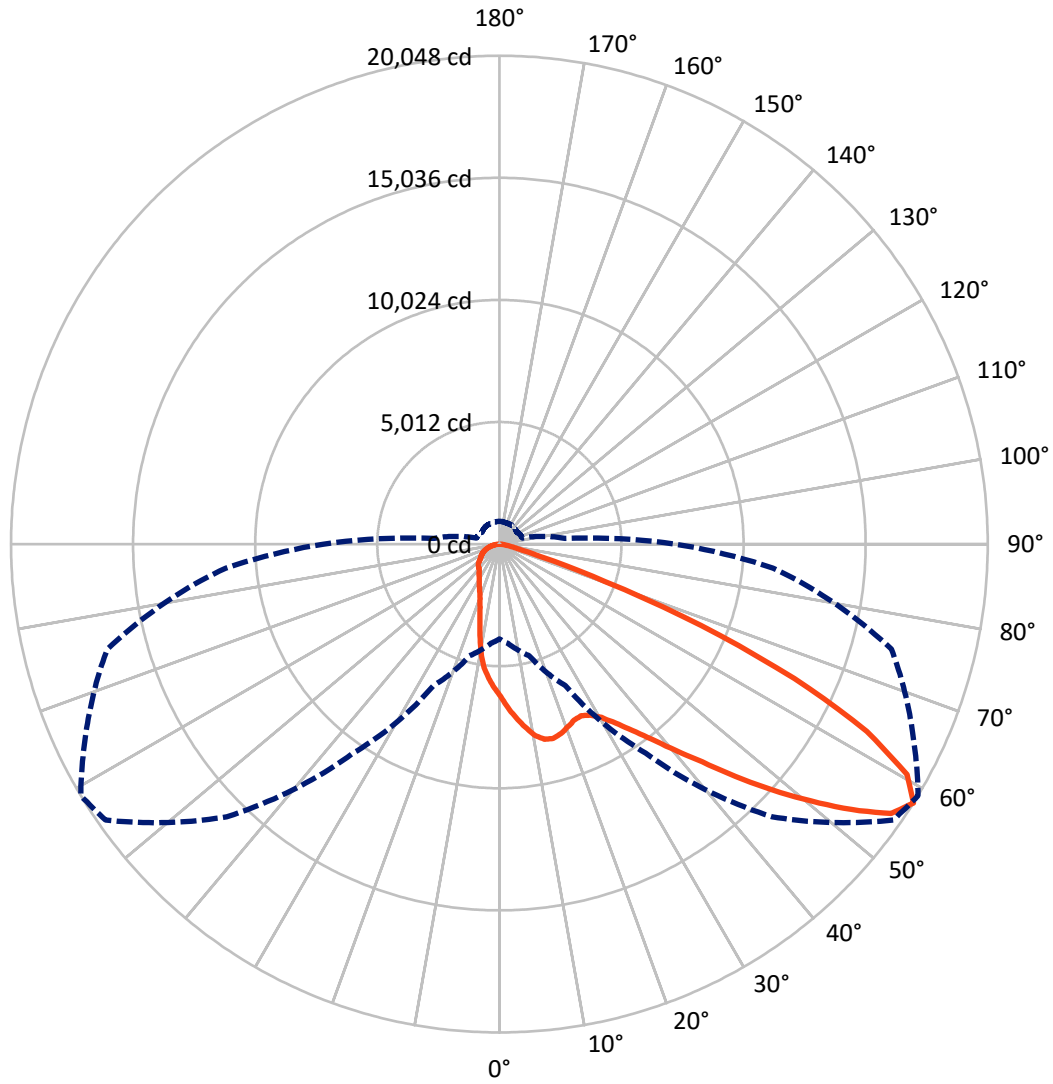
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.3 fc  
 Type II - Short - N/A

REPORT NUMBER: P637805  
CATALOG NUMBER: GWS-SA4D-750-U-AFL-W

### Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

REPORT NUMBER: P637805

CATALOG NUMBER: GWS-SA4D-750-U-AFL-W

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3958.9	0.0	3958.9
	% Fixture	15.5	0.0	15.5
<b>Street Side</b>	Lumens	21550.1	0.0	21550.1
	% Fixture	84.5	0.0	84.5
<b>Total</b>	Lumens	25509.0	0.0	25509.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	581.4	2.3
10°-20°	1473.4	5.8
20°-30°	2388.3	9.4
30°-40°	3841.9	15.1
40°-50°	5966.1	23.4
50°-60°	6426.3	25.2
60°-70°	3729.6	14.6
70°-80°	973.6	3.8
80°-90°	128.3	0.5
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°	25509.0	100.0
0°-180°	25509.0	100.0

**Coefficient of Utilization**



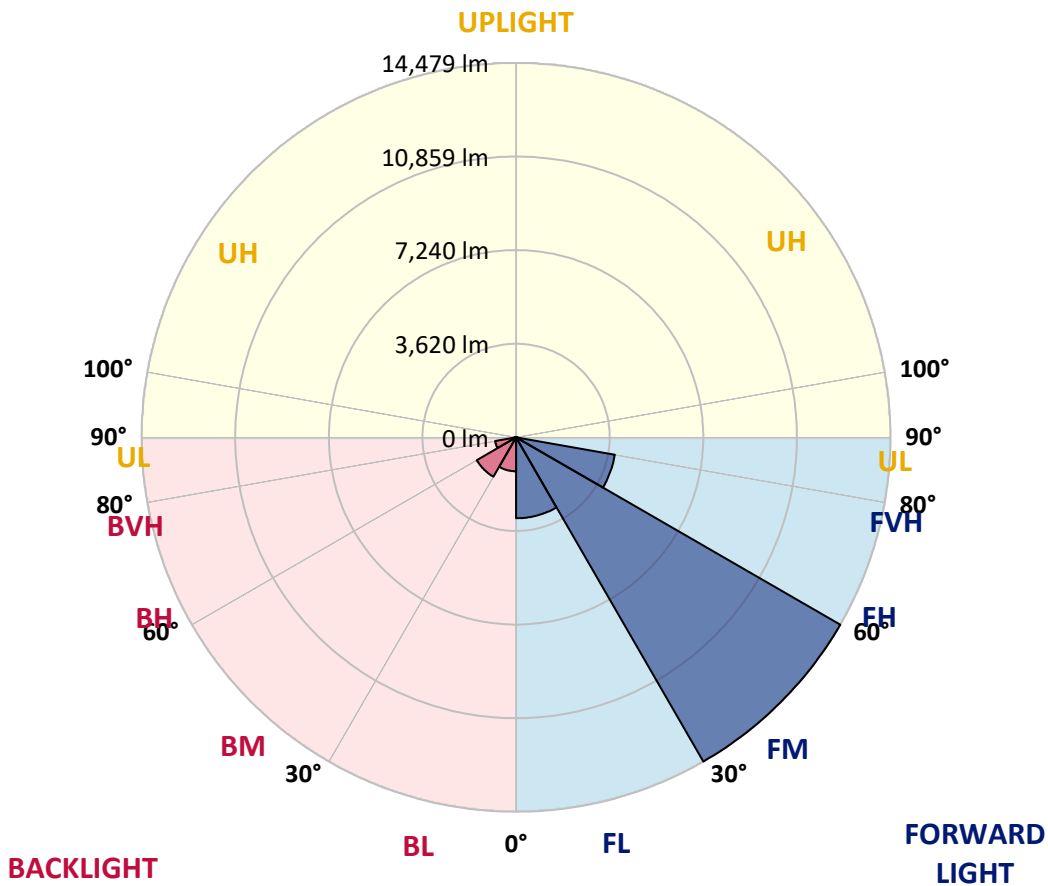
REPORT NUMBER: P637805

CATALOG NUMBER: GWS-SA4D-750-U-AFL-W

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3129.7	12.3			
FM (30°-60°)	14479.2	56.8			
FH (60°-80°)	3879.8	15.2			G2/5000
FVH (80°-90°)	61.4	0.2			G1/100
BL (0°-30°)	1313.4	5.1	B3/2500		
BM (30°-60°)	1755.2	6.9	B2/2500		
BH (60°-80°)	823.4	3.2	B2/1000		G2/1000
BVH (80°-90°)	66.8	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G2**  
 Type II Short





REPORT NUMBER: P637805  
 CATALOG NUMBER: GWS-SA4D-750-U-AFL-W

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	6261.9	6261.9	6261.9	6261.9	6261.9	6261.9	6261.9	6261.9	6261.9	6261.9	6261.9
2.5°	7102.4	7043.1	7084.4	7010.8	6980.3	6899.5	6795.3	6725.3	6617.5	6477.4	6355.3
5°	7808.1	7766.8	7775.8	7696.8	7626.8	7492.1	7278.4	7159.8	6976.7	6694.7	6432.6
7.5°	7786.6	7835.1	7862.0	7930.2	7950.0	7937.4	7745.3	7580.1	7378.9	6955.1	6560.1
10°	6980.3	7071.9	7154.5	7387.9	7671.7	8030.8	8075.7	7976.9	7774.0	7287.4	6712.7
12.5°	6102.1	6172.2	6245.8	6525.9	6960.5	7678.8	8165.5	8226.6	8145.7	7616.0	6885.1
15°	5671.1	5703.5	5773.5	5958.5	6305.0	7102.4	8009.3	8276.8	8422.3	7964.4	7079.0
17.5°	5653.2	5667.5	5701.7	5800.4	6041.1	6657.0	7727.3	8176.3	8639.6	8332.5	7305.3
20°	6024.9	5987.2	5965.6	5963.8	6082.4	6508.0	7454.4	8014.6	8741.9	8709.6	7547.7
22.5°	6540.3	6552.9	6506.2	6391.2	6376.9	6613.9	7317.9	7851.2	8772.5	9043.6	7772.2
25°	7271.2	7334.0	7195.8	6976.7	6868.9	6921.0	7402.3	7800.9	8768.9	9322.0	7912.3
27.5°	8124.2	8172.7	8032.6	7745.3	7522.6	7396.9	7653.7	7950.0	8799.4	9562.6	7996.7
30°	9095.7	9111.9	8919.7	8618.0	8293.0	8023.6	8072.1	8257.1	8955.6	9878.7	8095.5
32.5°	10282.7	10351.0	10060.1	9582.4	9128.0	8783.3	8634.2	8752.7	9293.3	10252.2	8248.1
35°	11789.4	11812.8	11442.8	10758.6	10115.7	9638.1	9325.6	9388.4	9806.9	10774.8	8478.0
37.5°	13209.9	13233.2	12840.0	12204.2	11284.8	10631.1	10178.6	10149.9	10464.1	11512.9	8853.3
40°	14111.4	14177.8	14001.8	13603.2	12725.0	11843.3	11229.1	11130.4	11326.1	12416.2	9375.9
42.5°	14596.3	14625.0	14621.4	14673.5	14150.9	13274.5	12414.4	12216.8	12347.9	13391.3	9903.8
45°	14599.8	14671.7	14863.8	15364.9	15388.2	14842.3	13912.1	13603.2	13482.9	14373.6	10455.1
47.5°	13946.2	14023.4	14551.4	15537.2	16264.5	16388.5	15706.1	15086.5	14580.1	15219.4	10907.7
50°	11967.2	12161.1	13166.8	14910.5	16436.9	17627.6	17417.4	16577.0	15555.2	15873.1	11191.4
52.5°	10248.6	10241.4	10861.0	13139.9	15716.8	18173.5	19073.2	18110.6	16519.6	16287.9	11263.2
55°	7504.6	7545.9	8179.9	10049.3	13795.3	17645.5	19983.6	19522.1	17625.8	16508.8	11234.5
57.5°	3891.5	4096.2	4746.3	6412.8	10482.1	15828.2	19741.2	20048.3	18749.9	16665.0	11272.2
60°	1966.4	1926.9	2160.3	3061.8	6073.4	12362.3	18247.1	19225.8	18952.9	16787.1	11295.6
62.5°	1312.7	1302.0	1237.3	1418.7	2481.8	7321.5	15555.2	16927.2	17543.2	16499.8	10997.5
65°	1136.7	1115.2	996.7	989.5	1205.0	3036.7	11401.5	13306.9	14499.3	15223.0	10284.5
67.5°	1023.6	991.3	871.0	811.7	865.6	1334.3	6425.4	8925.1	10706.6	12874.1	8722.2
70°	914.1	897.9	777.6	691.4	686.0	813.5	2366.9	4606.2	6551.1	8783.3	6376.9
72.5°	818.9	790.2	687.8	605.2	563.9	576.5	1027.2	1774.2	3390.5	5479.0	3814.3
75°	709.3	687.8	598.0	515.4	465.1	422.0	626.7	820.7	1546.2	2603.9	1801.2
77.5°	547.7	533.4	472.3	409.4	380.7	314.3	380.7	517.2	714.7	1097.2	937.4
80°	317.9	326.8	352.0	319.7	280.1	224.5	247.8	298.1	429.2	594.4	531.6
82.5°	159.8	170.6	228.1	185.0	167.0	131.1	147.3	176.0	224.5	328.6	208.3
85°	12.6	12.6	41.3	46.7	57.5	46.7	59.3	71.8	102.4	131.1	70.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	5.4	9.0	16.2	30.5	19.8
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: P637805  
 CATALOG NUMBER: GWS-SA4D-750-U-AFL-W

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6261.9	6261.9	6261.9	6261.9	6261.9	6261.9	6261.9	6261.9	6261.9	6261.9	6261.9
2.5°	6272.7	6181.1	6071.6	5981.8	5843.5	5769.9	5676.5	5561.6	5514.9	5493.3	5480.8
5°	6285.3	6123.7	5890.2	5674.7	5435.9	5247.3	5037.2	4818.1	4692.4	4661.9	4640.3
7.5°	6332.0	6105.7	5734.0	5378.4	4934.9	4523.6	4123.2	3726.3	3523.4	3446.1	3439.0
10°	6396.6	6098.5	5576.0	4985.1	4236.3	3586.2	3117.5	2806.8	2675.7	2632.6	2618.3
12.5°	6477.4	6093.1	5367.6	4439.2	3430.0	2815.8	2548.2	2498.0	2515.9	2512.3	2512.3
15°	6579.8	6100.3	5116.2	3821.5	2774.5	2444.1	2449.5	2508.7	2564.4	2573.4	2573.4
17.5°	6691.1	6093.1	4751.7	3201.9	2381.2	2356.1	2438.7	2521.3	2571.6	2578.8	2578.8
20°	6811.5	6059.0	4292.0	2618.3	2208.8	2300.4	2390.2	2454.9	2485.4	2492.6	2492.6
22.5°	6883.3	5962.1	3792.7	2216.0	2099.3	2212.4	2271.7	2338.1	2341.7	2284.3	2282.5
25°	6872.5	5780.7	3223.5	1957.4	1982.6	2081.3	2156.8	2110.1	2052.6	2020.3	2014.9
27.5°	6804.3	5507.7	2643.4	1761.7	1844.3	1955.6	1932.3	1892.8	1878.4	1842.5	1838.9
30°	6718.1	5171.9	2122.6	1609.0	1700.6	1803.0	1767.1	1763.5	1749.1	1709.6	1709.6
32.5°	6635.5	4825.3	1729.4	1495.9	1609.0	1616.2	1666.5	1670.1	1662.9	1594.7	1587.5
35°	6612.1	4478.7	1463.6	1406.1	1519.2	1515.7	1587.5	1585.7	1461.8	1366.6	1364.8
37.5°	6682.2	4126.7	1305.5	1332.5	1395.3	1442.0	1499.5	1395.3	1354.0	1296.6	1293.0
40°	6831.2	3801.7	1224.7	1289.4	1316.3	1384.6	1294.8	1302.0	1291.2	1248.1	1242.7
42.5°	7028.8	3525.2	1179.8	1275.0	1271.4	1289.4	1190.6	1219.3	1235.5	1203.2	1197.8
45°	7219.1	3284.5	1156.5	1221.1	1239.1	1134.9	1115.2	1142.1	1167.3	1154.7	1149.3
47.5°	7359.2	3076.2	1143.9	1147.5	1197.8	1082.9	1050.5	1063.1	1093.6	1099.0	1097.2
50°	7402.3	2898.4	1129.6	1086.5	1075.7	1030.8	1005.6	1002.1	1038.0	1063.1	1066.7
52.5°	7319.7	2740.4	1091.8	1032.6	980.5	987.7	978.7	960.8	996.7	1030.8	1034.4
55°	7197.6	2650.6	1032.6	980.5	919.4	948.2	951.8	935.6	959.0	982.3	982.3
57.5°	7206.5	2702.7	975.1	932.0	865.6	903.3	923.0	915.9	915.9	933.8	935.6
60°	7265.8	2778.1	937.4	871.0	811.7	851.2	896.1	888.9	872.8	896.1	896.1
62.5°	7095.2	2677.5	912.3	811.7	754.2	800.9	854.8	851.2	833.3	871.0	874.6
65°	6592.4	2408.2	883.5	738.1	696.8	750.6	797.3	809.9	793.7	844.0	853.0
67.5°	5525.7	2025.7	827.9	668.0	639.3	689.6	734.5	752.4	739.9	799.1	806.3
70°	4119.6	1639.6	739.9	590.8	569.3	614.2	655.5	662.6	664.4	734.5	741.7
72.5°	2627.3	1275.0	623.1	504.6	488.5	522.6	553.1	581.8	594.4	660.9	659.1
75°	1465.4	948.2	501.0	427.4	398.7	425.6	461.5	495.6	531.6	628.5	639.3
77.5°	844.0	666.2	396.9	343.0	308.9	337.6	368.1	416.6	524.4	608.8	598.0
80°	475.9	432.8	299.9	251.4	229.9	251.4	274.8	366.3	413.0	448.9	454.3
82.5°	222.7	242.4	204.7	154.4	154.4	168.8	190.4	283.7	312.5	255.0	222.7
85°	80.8	109.5	100.6	79.0	70.0	68.2	118.5	161.6	100.6	89.8	77.2
87.5°	21.5	30.5	28.7	19.8	10.8	9.0	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)