

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: P632936

Luminaire Tested: GWS-SA2D-760-U-T2-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P632936  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-19)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA2D-760-U-T2-W  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS  
Light Source: (32) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

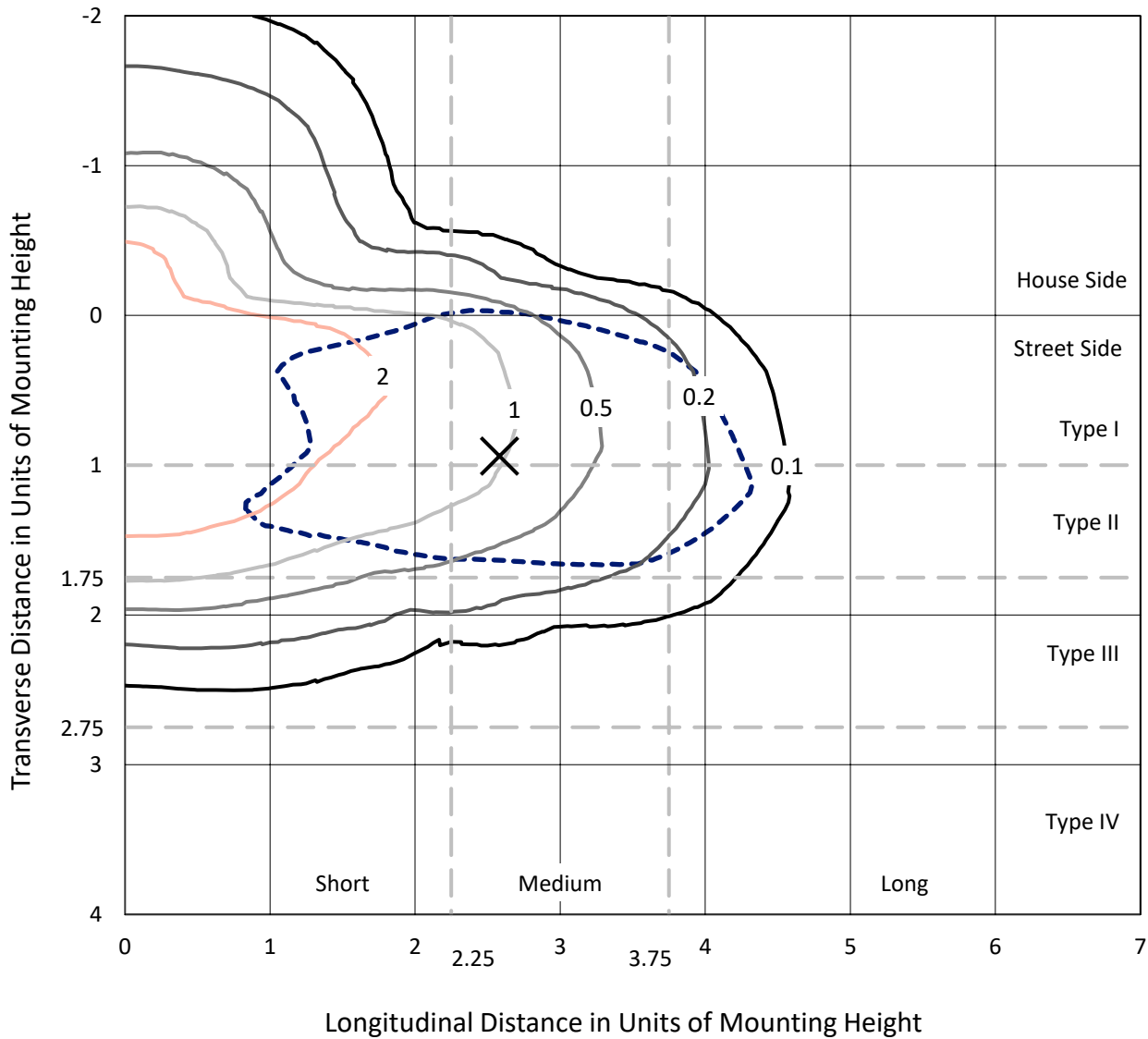
Lumens per Lamp: N/A  
Luminaire Lumens: 11687.5 lumens  
Efficiency: N/A  
Efficacy: 142.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 82.1  
Input Voltage (V): 120  
Input Current (Ain): 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



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### Iso-Footcandle Lines of Horizontal Illumination

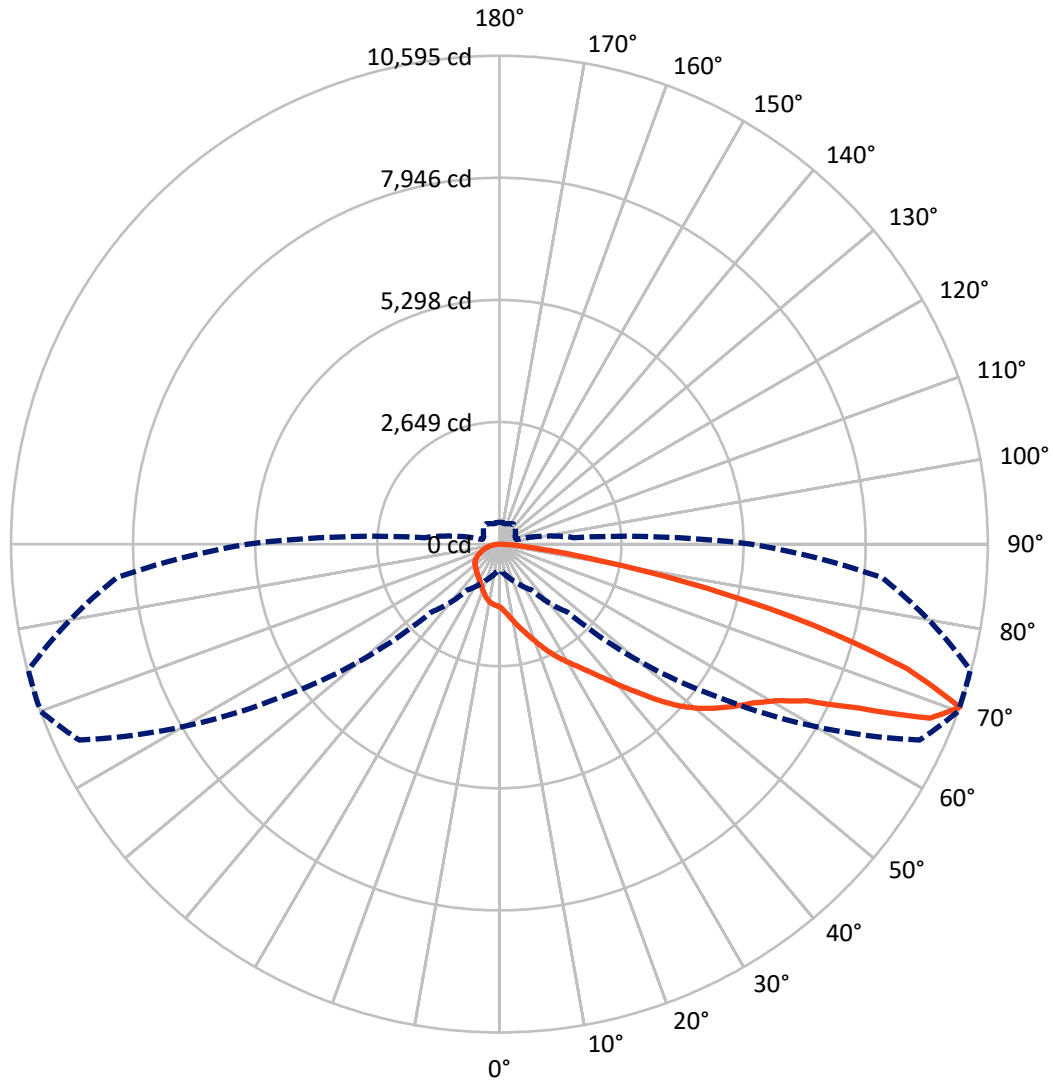
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.9 fc  
 Type II - Medium - N/A

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CATALOG NUMBER: GWS-SA2D-760-U-T2-W

### Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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CATALOG NUMBER: GWS-SA2D-760-U-T2-W

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2094.4	0.0	2094.4
	% Fixture	17.9	0.0	17.9
<b>Street Side</b>	Lumens	9593.1	0.0	9593.1
	% Fixture	82.1	0.0	82.1
<b>Total</b>	Lumens	11687.5	0.0	11687.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	138.5	1.2
10°-20°	450.7	3.9
20°-30°	798.3	6.8
30°-40°	1201.5	10.3
40°-50°	1817.8	15.6
50°-60°	2604.0	22.3
60°-70°	2878.5	24.6
70°-80°	1624.4	13.9
80°-90°	173.7	1.5
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°	11687.5	100.0
0°-180°	11687.5	100.0

**Coefficient of Utilization**



REPORT NUMBER: P632936

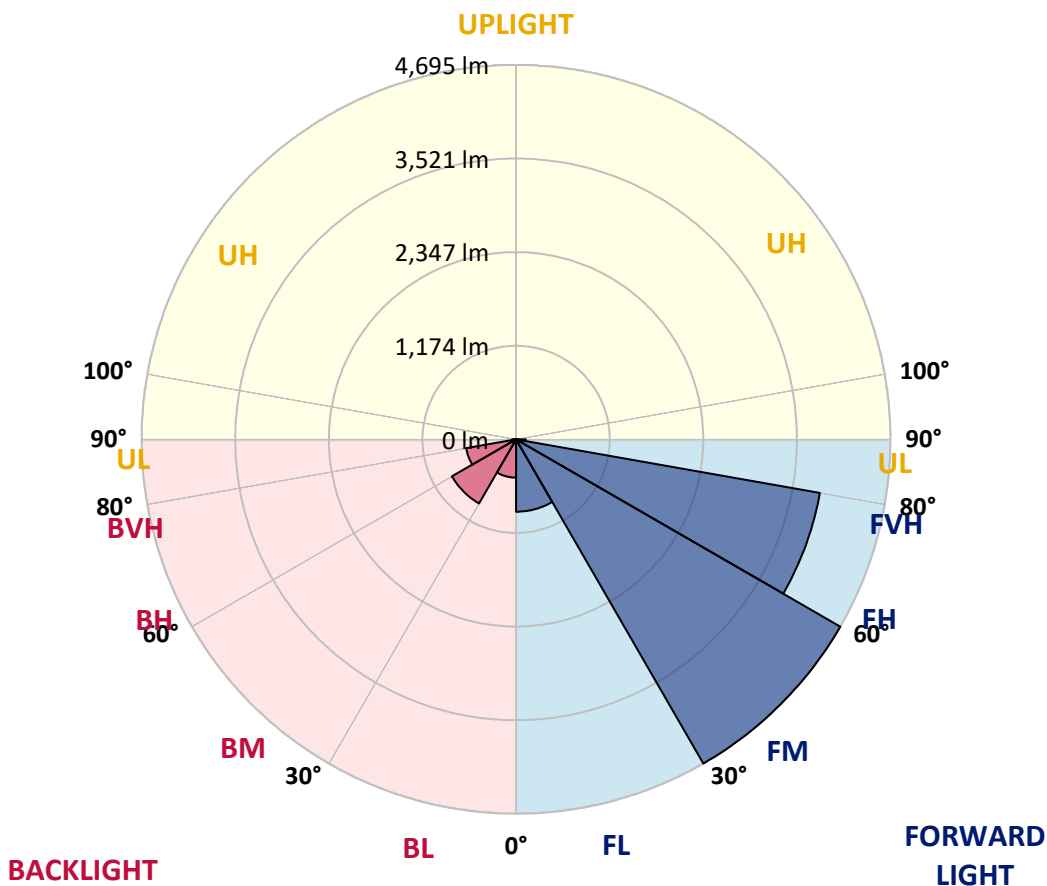
CATALOG NUMBER: GWS-SA2D-760-U-T2-W

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	907.3	7.8			
FM (30°-60°)	4694.9	40.2			
FH (60°-80°)	3868.1	33.1			G2/5000
FVH (80°-90°)	122.8	1.1			G2/225
BL (0°-30°)	480.2	4.1	B1/500		
BM (30°-60°)	928.5	7.9	B1/1000		
BH (60°-80°)	634.8	5.4	B2/1000		G2/1000
BVH (80°-90°)	50.9	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type II Medium





REPORT NUMBER: P632936  
 CATALOG NUMBER: GWS-SA2D-760-U-T2-W

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	1363.0	1363.0	1363.0	1363.0	1363.0	1363.0	1363.0	1363.0	1363.0	1363.0	1363.0
2.5°	1509.9	1507.4	1509.1	1507.4	1498.1	1475.3	1456.7	1433.1	1417.1	1407.8	1385.8
5°	1687.3	1684.8	1678.8	1670.4	1653.5	1622.3	1575.8	1524.3	1493.1	1469.4	1423.0
7.5°	1814.8	1814.8	1814.0	1803.8	1792.0	1759.1	1704.2	1636.6	1591.0	1550.5	1474.5
10°	1879.8	1884.1	1890.0	1904.3	1901.8	1884.1	1832.5	1759.9	1702.5	1655.2	1542.0
12.5°	1915.3	1917.8	1928.0	1957.5	1987.9	1992.1	1961.7	1885.7	1823.3	1759.9	1617.2
15°	1960.9	1961.7	1975.3	2010.7	2055.5	2100.2	2092.6	2016.6	1952.5	1882.4	1700.8
17.5°	1996.4	2002.3	2026.8	2068.2	2123.9	2185.5	2222.7	2175.4	2096.0	2015.8	1792.0
20°	2009.0	2013.3	2045.4	2108.7	2184.7	2271.7	2354.4	2341.8	2261.5	2167.0	1895.0
22.5°	2054.6	2054.6	2078.3	2131.5	2221.0	2347.7	2482.0	2514.9	2443.9	2333.3	2005.7
25°	2155.1	2151.8	2162.7	2184.7	2252.3	2408.5	2607.8	2706.6	2627.2	2503.1	2116.3
27.5°	2292.8	2291.1	2290.3	2293.6	2316.4	2461.7	2714.2	2885.6	2806.2	2666.1	2215.1
30°	2442.3	2437.2	2448.2	2438.0	2433.0	2525.0	2804.5	3046.1	2984.4	2827.3	2297.0
32.5°	2645.8	2636.5	2634.0	2601.0	2580.8	2623.8	2877.2	3228.5	3179.5	3001.3	2389.1
35°	2914.3	2905.9	2862.8	2810.5	2750.5	2770.8	2967.5	3406.7	3410.0	3219.2	2509.8
37.5°	3185.4	3187.1	3153.3	3030.0	2968.4	2956.6	3105.2	3623.7	3696.3	3479.3	2666.1
40°	3410.9	3421.0	3421.0	3291.0	3198.9	3187.9	3298.6	3881.3	4025.7	3798.5	2863.7
42.5°	3582.3	3591.6	3621.2	3527.4	3430.3	3468.3	3533.3	4139.7	4398.9	4192.9	3113.6
45°	3770.6	3778.2	3794.3	3740.2	3683.7	3785.0	3799.4	4448.8	4826.3	4635.4	3404.1
47.5°	4020.6	4013.9	4015.5	3975.9	3931.9	4095.8	4092.4	4708.9	5239.2	5120.1	3719.1
50°	4331.4	4344.0	4332.2	4253.7	4202.2	4351.6	4371.1	4996.8	5602.3	5599.8	4036.7
52.5°	4630.3	4635.4	4697.9	4701.3	4595.7	4564.5	4615.1	5287.3	5908.9	6038.9	4341.5
55°	4645.5	4665.0	4852.4	4987.5	5158.1	4907.3	4861.7	5564.3	6205.3	6468.8	4658.2
57.5°	4322.1	4353.3	4671.7	4963.1	5437.7	5495.9	5284.0	5922.4	6501.7	6891.9	5024.7
60°	3631.3	3696.3	4128.7	4574.6	5311.8	5919.0	6147.9	6408.8	6891.0	7324.2	5469.8
62.5°	2319.0	2344.3	2950.6	3697.2	4745.2	5877.6	7088.6	7266.0	7483.9	7887.5	6155.5
65°	1161.2	1242.2	1597.8	2206.6	3421.9	5179.2	7564.1	8835.9	8569.0	8851.9	7266.8
67.5°	787.9	814.1	994.0	1325.8	2006.5	3669.3	7269.4	10158.4	10079.8	10126.3	8451.6
70°	581.0	597.9	739.8	939.1	1213.5	2083.4	5787.3	10058.7	10595.0	10578.1	8327.5
72.5°	423.9	432.4	539.6	717.0	899.4	1077.6	3534.2	8125.7	9248.8	9736.1	7282.9
75°	308.2	318.4	375.0	536.3	699.2	672.2	1744.7	5869.2	7053.2	7990.6	5933.4
77.5°	229.7	242.4	268.5	336.1	489.8	481.4	754.1	3811.2	4561.9	5218.9	3604.3
80°	165.5	168.1	183.3	215.3	310.8	282.1	358.9	1987.1	2278.4	2496.3	1412.8
82.5°	100.5	103.0	122.5	132.6	192.5	177.3	186.6	643.5	922.2	978.8	527.8
85°	29.6	31.2	55.7	60.8	80.2	76.0	75.2	261.8	312.5	399.4	207.7
87.5°	0.0	0.0	0.0	0.0	0.8	5.1	9.3	46.4	70.1	97.1	50.7
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: P632936  
 CATALOG NUMBER: GWS-SA2D-760-U-T2-W

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1363.0	1363.0	1363.0	1363.0	1363.0	1363.0	1363.0	1363.0	1363.0	1363.0	1363.0
2.5°	1377.4	1357.9	1347.8	1330.1	1317.4	1304.7	1292.1	1280.2	1275.2	1267.6	1269.3
5°	1401.9	1371.4	1341.0	1306.4	1276.9	1252.4	1230.4	1211.0	1202.6	1195.0	1198.3
7.5°	1439.0	1393.4	1335.1	1271.8	1225.4	1191.6	1168.8	1155.3	1151.0	1145.1	1145.1
10°	1486.3	1417.9	1315.7	1225.4	1169.6	1142.6	1132.5	1131.6	1135.8	1136.7	1135.0
12.5°	1538.7	1441.5	1287.0	1170.5	1123.2	1114.7	1122.3	1136.7	1151.0	1158.6	1156.9
15°	1592.7	1456.7	1238.0	1118.1	1089.4	1100.4	1124.9	1153.6	1181.4	1195.8	1195.0
17.5°	1643.4	1460.1	1174.7	1067.4	1059.8	1087.7	1129.9	1174.7	1212.7	1233.0	1233.8
20°	1700.0	1454.2	1109.7	1021.8	1030.3	1075.9	1131.6	1185.7	1230.4	1250.7	1255.8
22.5°	1751.5	1433.9	1046.3	978.8	1004.9	1061.5	1118.1	1168.8	1208.5	1227.9	1234.6
25°	1797.9	1395.1	977.1	942.4	985.5	1041.3	1084.3	1119.8	1147.7	1159.5	1168.8
27.5°	1823.3	1336.8	924.7	913.7	966.9	1012.5	1036.2	1047.2	1056.5	1053.1	1059.8
30°	1828.3	1264.2	879.1	890.9	939.1	972.9	977.9	966.9	950.9	924.7	930.6
32.5°	1823.3	1180.6	841.1	866.4	907.8	928.1	921.3	892.6	853.8	813.2	815.8
35°	1824.9	1096.1	809.9	839.4	871.5	882.5	865.6	825.9	784.5	747.4	745.7
37.5°	1843.5	1025.2	783.7	813.2	836.0	837.7	819.2	777.8	756.7	728.8	725.4
40°	1895.0	972.9	760.0	787.1	801.4	800.6	779.5	749.9	764.3	755.0	752.4
42.5°	1979.5	940.8	740.6	759.2	769.3	771.0	754.1	735.5	766.8	755.0	750.8
45°	2115.4	939.1	727.1	731.3	747.4	759.2	747.4	726.3	738.1	680.7	669.7
47.5°	2276.7	967.8	717.0	706.8	734.7	755.8	737.2	703.5	679.0	626.6	619.0
50°	2471.0	1026.1	707.7	680.7	716.1	743.1	724.6	678.1	641.0	613.1	608.9
52.5°	2701.5	1102.9	695.9	651.1	688.3	736.4	724.6	675.6	626.6	601.3	597.1
55°	2943.0	1191.6	682.3	615.6	657.0	738.1	730.5	657.9	615.6	602.1	598.7
57.5°	3242.8	1298.0	657.9	574.3	629.1	722.9	706.8	647.7	608.0	597.1	593.7
60°	3632.1	1455.9	611.4	532.0	597.1	695.9	685.7	630.8	587.8	578.5	575.9
62.5°	4248.6	1723.6	554.8	491.5	559.1	639.3	654.5	598.7	562.4	561.6	560.7
65°	5253.6	2045.4	488.1	455.2	519.4	592.8	613.1	565.8	536.3	545.5	544.7
67.5°	5957.9	2073.2	433.2	417.2	472.9	542.2	571.7	532.0	499.9	517.7	516.8
70°	5457.1	1617.2	385.9	377.5	423.1	487.3	527.0	489.8	457.7	474.6	471.2
72.5°	4602.5	1239.7	341.2	336.1	372.4	429.8	469.5	447.6	413.8	413.8	406.2
75°	3698.9	1022.7	293.9	291.3	315.8	371.6	416.3	379.2	347.9	346.2	341.2
77.5°	2121.4	670.5	246.6	244.9	252.5	310.8	323.4	315.8	292.2	281.2	277.8
80°	845.3	348.8	194.2	183.3	190.9	228.0	255.0	242.4	222.1	208.6	201.0
82.5°	327.7	174.8	136.8	119.9	130.9	164.7	184.9	180.7	167.2	136.8	128.4
85°	133.4	85.3	81.9	69.2	76.0	88.7	106.4	92.0	76.0	54.0	51.5
87.5°	35.5	31.2	30.4	18.6	14.4	4.2	0.8	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)