

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: P640475

Luminaire Tested: GWS-SA5D-830-U-T2R-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P640475  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-11)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA5D-830-U-T2R-W  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS  
Light Source: (80) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

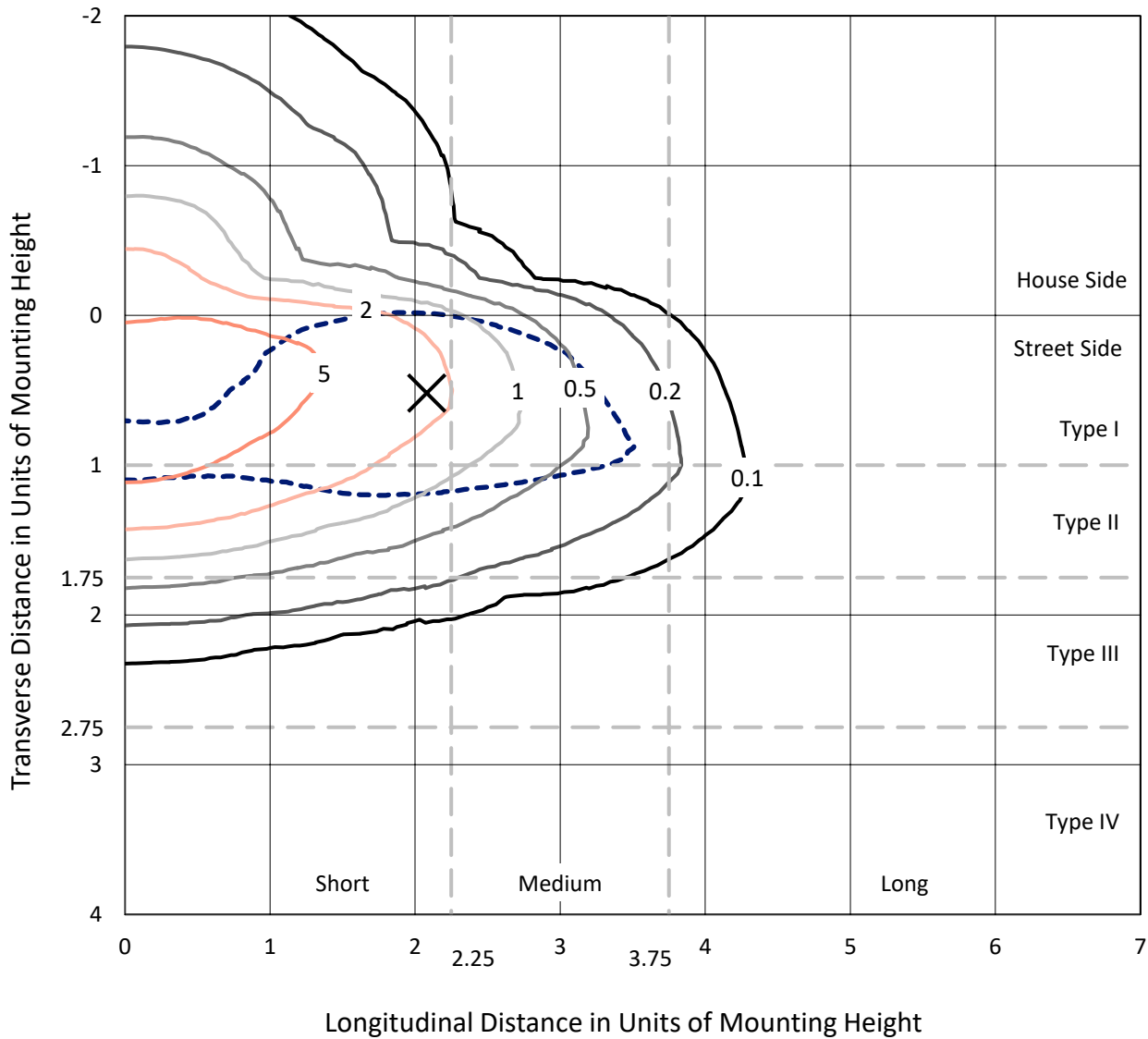
Lumens per Lamp: N/A  
Luminaire Lumens: 24333.8 lumens  
Efficiency: N/A  
Efficacy: 118.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 204.6  
Input Voltage (V): 120  
Input Current (Ain): 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: P640475  
 CATALOG NUMBER: GWS-SA5D-830-U-T2R-W

### Iso-Footcandle Lines of Horizontal Illumination

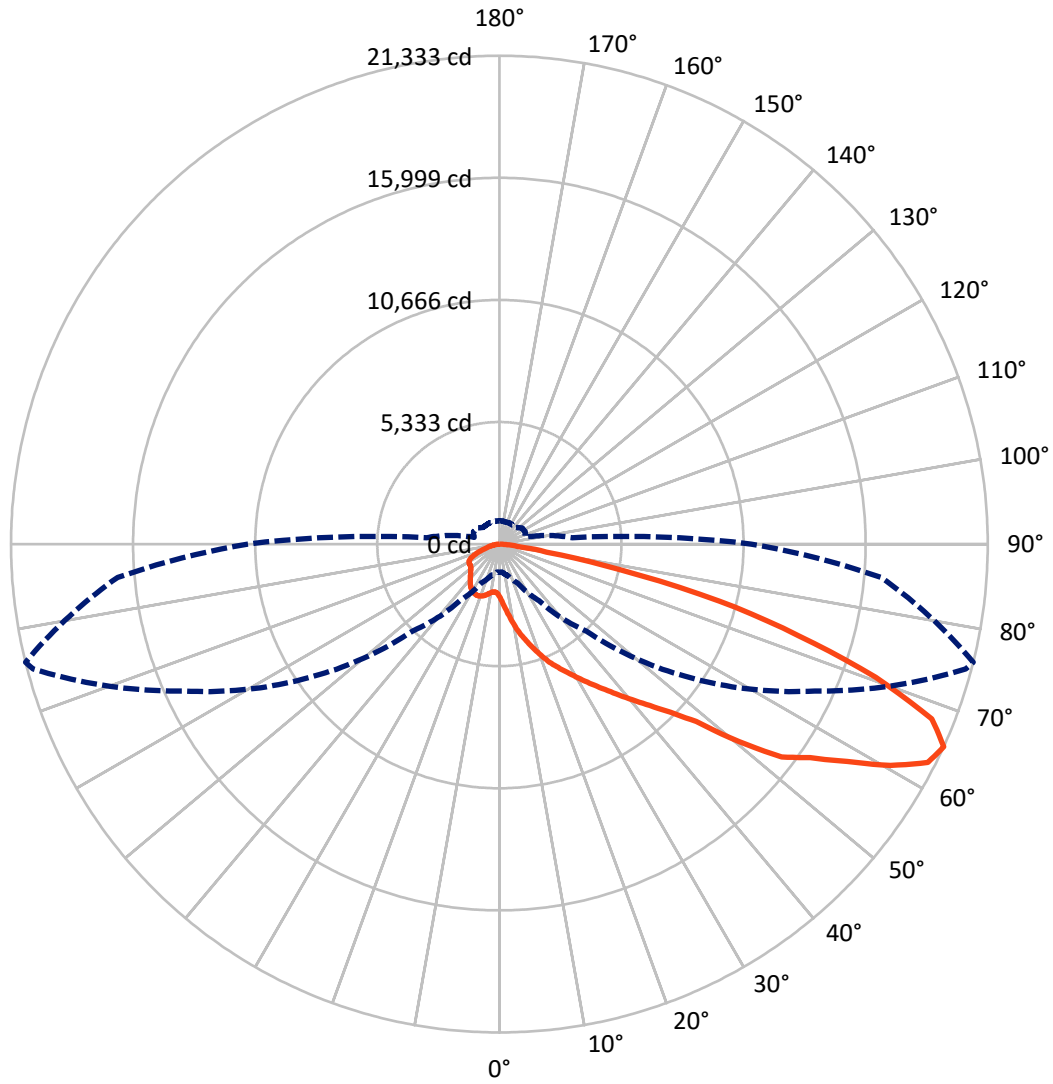
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.6 fc  
 Type II - Short - N/A

REPORT NUMBER: P640475  
CATALOG NUMBER: GWS-SA5D-830-U-T2R-W

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P640475

CATALOG NUMBER: GWS-SA5D-830-U-T2R-W

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4067.4	0.0	4067.4
	% Fixture	16.7	0.0	16.7
<b>Street Side</b>	Lumens	20266.4	0.0	20266.4
	% Fixture	83.3	0.0	83.3
<b>Total</b>	Lumens	24333.8	0.0	24333.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	273.8	1.1
10°-20°	1042.7	4.3
20°-30°	2032.2	8.4
30°-40°	3398.7	14.0
40°-50°	4866.2	20.0
50°-60°	5761.0	23.7
60°-70°	4790.3	19.7
70°-80°	1960.3	8.1
80°-90°	208.7	0.9
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°	24333.8	100.0
0°-180°	24333.8	100.0

**Coefficient of Utilization**



REPORT NUMBER: P640475

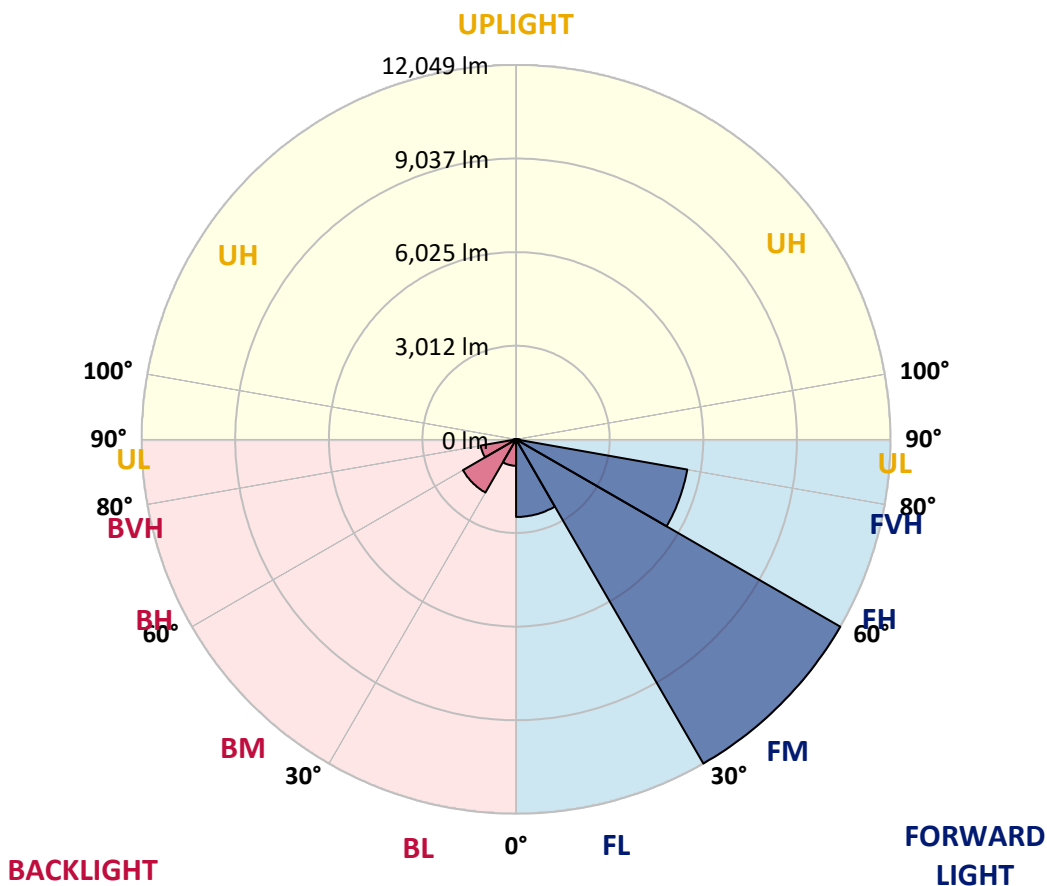
CATALOG NUMBER: GWS-SA5D-830-U-T2R-W

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2497.8	10.3			
FM (30°-60°)	12049.2	49.5			
FH (60°-80°)	5595.0	23.0			G3/7500
FVH (80°-90°)	124.5	0.5			G2/225
BL (0°-30°)	850.9	3.5	B2/1000		
BM (30°-60°)	1976.7	8.1	B2/2500		
BH (60°-80°)	1155.6	4.7	B3/2500		G3/2500
BVH (80°-90°)	84.2	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-G3**

Type II Short





REPORT NUMBER: P640475  
 CATALOG NUMBER: GWS-SA5D-830-U-T2R-W

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2304.3	2304.3	2304.3	2304.3	2304.3	2304.3	2304.3	2304.3	2304.3	2304.3	2304.3
2.5°	3229.8	3241.8	3202.4	3188.8	3096.4	2971.5	2867.1	2709.8	2564.3	2542.1	2412.1
5°	4102.3	4051.0	4006.5	3977.4	3849.1	3707.1	3486.4	3190.5	2880.8	2843.2	2562.6
7.5°	4620.6	4612.1	4557.3	4540.2	4441.0	4299.0	4071.5	3703.7	3253.8	3192.2	2766.2
10°	5036.3	5031.2	5003.8	5019.2	4928.5	4790.0	4569.3	4189.5	3662.6	3601.0	2993.7
12.5°	5399.0	5407.5	5402.4	5458.9	5412.7	5304.9	5075.7	4658.3	4071.5	4004.8	3270.9
15°	5664.1	5671.0	5696.7	5819.8	5845.5	5823.2	5590.6	5118.4	4475.2	4379.4	3556.6
17.5°	5739.4	5753.1	5814.7	6013.1	6151.7	6244.1	6071.3	5587.2	4872.1	4767.7	3847.4
20°	5840.4	5855.7	5917.3	6124.3	6327.9	6538.3	6507.5	6062.7	5272.4	5186.9	4141.6
22.5°	6307.4	6295.4	6268.0	6367.2	6512.7	6774.4	6851.4	6519.5	5686.4	5604.3	4466.7
25°	7207.2	7185.0	7010.5	6919.8	6871.9	7031.0	7167.9	6935.2	6090.1	5966.9	4769.4
27.5°	8199.4	8187.4	7965.0	7749.5	7455.3	7386.8	7467.2	7297.9	6481.9	6357.0	5032.9
30°	9138.6	9102.7	8870.0	8599.7	8206.3	7912.0	7794.0	7653.7	6911.3	6781.2	5340.8
32.5°	9978.5	9932.4	9658.6	9359.3	8947.0	8599.7	8247.3	8031.8	7397.1	7246.6	5655.6
35°	10668.0	10621.8	10341.2	10023.0	9569.7	9313.1	8830.7	8442.3	7891.5	7739.2	6026.8
37.5°	11201.7	11158.9	10866.4	10553.3	10158.2	9954.6	9535.5	8904.2	8461.2	8302.1	6420.3
40°	11501.1	11470.3	11235.9	10987.9	10656.0	10479.8	10291.6	9487.6	9099.2	8940.1	6883.9
42.5°	11591.7	11571.2	11407.0	11278.7	11054.6	10921.1	11028.9	10173.6	9780.1	9641.5	7405.6
45°	11364.2	11364.2	11316.3	11381.3	11391.6	11389.9	11767.9	10948.5	10616.6	10464.4	8141.2
47.5°	10782.6	10820.2	10890.4	11210.3	11547.3	11829.5	12631.9	11981.8	11692.7	11567.8	9183.1
50°	9718.5	9821.2	10060.7	10685.1	11401.9	12120.4	13449.6	13509.4	13784.9	13564.2	10715.9
52.5°	8160.1	8144.7	8755.4	9645.0	10738.1	12132.3	13899.5	14857.5	15598.2	15446.0	11855.2
55°	6485.3	6459.6	7029.3	8255.9	9720.2	11673.9	14169.8	15475.0	16604.1	16467.3	12879.9
57.5°	4966.2	4933.7	5440.0	6546.9	8283.2	10700.5	14118.5	16210.6	17988.1	17917.9	14272.4
60°	3418.0	3378.6	3852.5	4820.8	6582.8	9212.2	13550.5	16588.7	19608.1	19632.1	15762.4
62.5°	2052.8	2030.6	2374.5	3125.5	4735.2	7368.0	12221.3	16359.5	20898.0	21005.8	16720.4
65°	1238.6	1223.2	1425.0	1864.7	3004.0	5376.7	10171.9	15187.6	21084.5	21332.5	16742.7
67.5°	901.5	903.3	961.4	1135.9	1751.8	3472.7	7633.2	13086.9	20112.8	20369.4	15687.2
70°	783.5	786.9	817.7	857.1	1058.9	1987.8	4962.8	10331.0	17240.5	17438.9	13157.0
72.5°	696.3	696.3	716.8	737.3	828.0	1211.2	2658.4	7220.9	13607.0	13660.0	10041.8
75°	612.4	607.3	617.6	627.8	718.5	846.8	1293.3	5031.2	10050.4	9927.2	6490.4
77.5°	487.6	482.4	484.1	494.4	576.5	605.6	655.2	3142.6	5664.1	5346.0	2867.1
80°	347.3	343.9	362.7	388.3	426.0	371.2	410.6	1520.8	2246.2	2090.5	1112.0
82.5°	207.0	213.8	242.9	263.4	294.2	232.7	265.2	508.1	795.5	774.9	451.6
85°	29.1	30.8	87.2	100.9	126.6	90.7	140.3	229.2	318.2	340.4	159.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	12.0	41.1	90.7	92.4	39.3
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: P640475  
 CATALOG NUMBER: GWS-SA5D-830-U-T2R-W

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2304.3	2304.3	2304.3	2304.3	2304.3	2304.3	2304.3	2304.3	2304.3	2304.3	2304.3
2.5°	2345.4	2265.0	2150.4	2054.6	1974.2	1909.1	1854.4	1813.3	1801.4	1784.3	1784.3
5°	2430.9	2285.5	2080.2	1934.8	1851.0	1801.4	1767.2	1750.1	1741.5	1731.2	1726.1
7.5°	2549.0	2345.4	2068.2	1921.1	1856.1	1825.3	1803.1	1792.8	1786.0	1775.7	1775.7
10°	2711.5	2434.3	2105.9	1969.0	1917.7	1886.9	1861.2	1844.1	1828.7	1813.3	1809.9
12.5°	2887.7	2550.7	2174.3	2034.0	1979.3	1941.7	1905.7	1880.1	1861.2	1842.4	1837.3
15°	3082.7	2670.4	2247.9	2097.3	2028.9	1977.6	1934.8	1895.5	1869.8	1842.4	1839.0
17.5°	3274.3	2791.9	2309.5	2140.1	2052.8	1989.6	1928.0	1876.6	1844.1	1813.3	1804.8
20°	3503.5	2913.3	2352.2	2152.1	2047.7	1963.9	1890.3	1825.3	1789.4	1753.5	1748.3
22.5°	3713.9	3026.2	2372.7	2135.0	2008.4	1909.1	1823.6	1753.5	1714.1	1678.2	1671.4
25°	3917.5	3125.5	2364.2	2093.9	1948.5	1833.9	1744.9	1674.8	1637.1	1599.5	1589.2
27.5°	4114.2	3192.2	2330.0	2030.6	1873.2	1750.1	1664.5	1601.2	1568.7	1536.2	1522.5
30°	4307.6	3253.8	2276.9	1948.5	1777.4	1662.8	1592.7	1548.2	1515.7	1481.5	1471.2
32.5°	4502.6	3298.2	2196.5	1852.7	1679.9	1585.8	1543.1	1510.6	1476.3	1442.1	1431.9
35°	4699.3	3317.1	2099.0	1743.2	1597.8	1536.2	1520.8	1483.2	1437.0	1395.9	1382.3
37.5°	4933.7	3334.2	1977.6	1635.4	1525.9	1512.3	1508.8	1452.4	1397.6	1341.2	1325.8
40°	5215.9	3356.4	1852.7	1537.9	1467.8	1503.7	1490.0	1413.0	1303.6	1248.8	1231.7
42.5°	5561.5	3397.5	1722.7	1449.0	1425.0	1471.2	1455.8	1317.2	1243.7	1212.9	1204.3
45°	6069.6	3548.0	1592.7	1378.8	1392.5	1425.0	1401.1	1260.8	1231.7	1211.2	1200.9
47.5°	6974.5	3778.9	1479.8	1325.8	1366.9	1384.0	1291.6	1245.4	1223.2	1195.8	1183.8
50°	7915.4	3879.9	1389.1	1293.3	1337.8	1346.3	1231.7	1224.9	1209.5	1180.4	1168.4
52.5°	8551.8	3866.2	1334.4	1281.3	1313.8	1281.3	1204.3	1202.6	1192.4	1158.1	1144.5
55°	9270.3	3890.1	1310.4	1284.7	1303.6	1171.8	1170.1	1175.3	1170.1	1132.5	1125.6
57.5°	10240.3	3963.7	1298.4	1296.7	1296.7	1118.8	1137.6	1144.5	1134.2	1117.1	1112.0
60°	11172.6	3968.8	1276.2	1310.4	1291.6	1086.3	1100.0	1106.8	1094.9	1091.4	1089.7
62.5°	11523.3	3722.5	1226.6	1300.1	1271.1	1050.4	1060.6	1064.1	1052.1	1060.6	1058.9
65°	11001.5	3199.0	1144.5	1250.5	1207.8	1017.9	1011.0	1019.6	999.1	1021.3	1023.0
67.5°	9768.1	2542.1	1019.6	1156.4	1118.8	981.9	968.3	968.3	934.0	968.3	966.5
70°	7876.1	1796.2	836.5	1005.9	1021.3	939.2	932.3	893.0	838.2	889.6	884.4
72.5°	5970.4	1289.9	658.6	795.5	879.3	879.3	881.0	814.3	751.0	774.9	754.4
75°	3782.4	908.4	526.9	609.0	689.4	771.5	810.9	687.7	631.3	621.0	610.7
77.5°	1703.9	597.0	410.6	467.0	489.3	609.0	740.7	591.9	514.9	492.7	485.8
80°	713.4	371.2	292.5	330.2	301.1	511.5	653.5	460.2	378.1	347.3	325.0
82.5°	313.1	220.7	186.5	177.9	188.2	379.8	487.6	306.2	236.1	319.9	323.3
85°	131.7	116.3	95.8	87.2	77.0	145.4	229.2	119.7	147.1	83.8	68.4
87.5°	30.8	34.2	25.7	17.1	10.3	1.7	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)