

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: P639371

Luminaire Tested: GWS-SA5B-760-U-T2-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P639371  
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-SA5B-760-U-T2-W  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS  
Light Source: (80) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

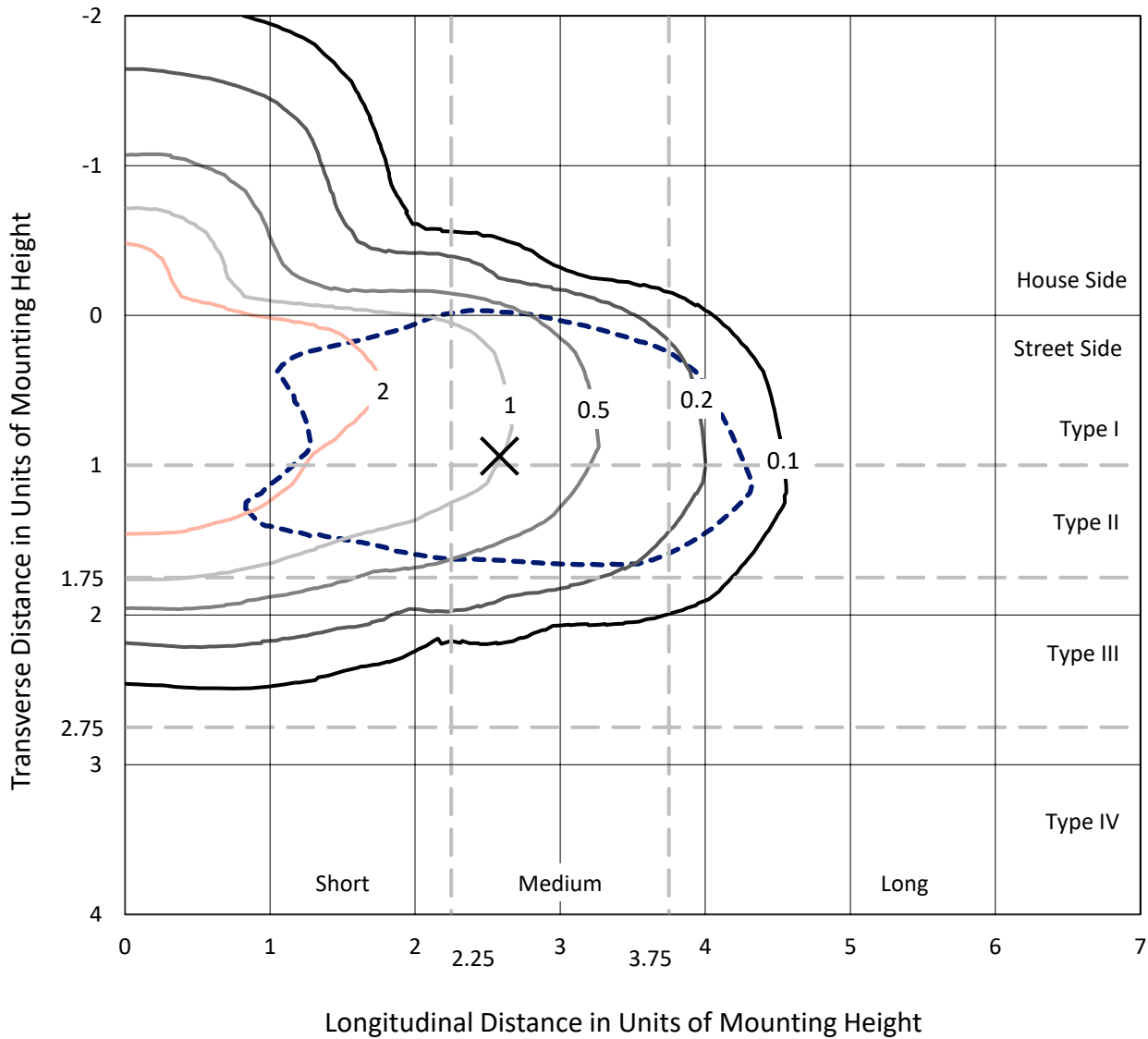
Lumens per Lamp: N/A  
Luminaire Lumens: 17773.2 lumens  
Efficiency: N/A  
Efficacy: 153.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 115.7  
Input Voltage (V): 120  
Input Current (Ain): 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

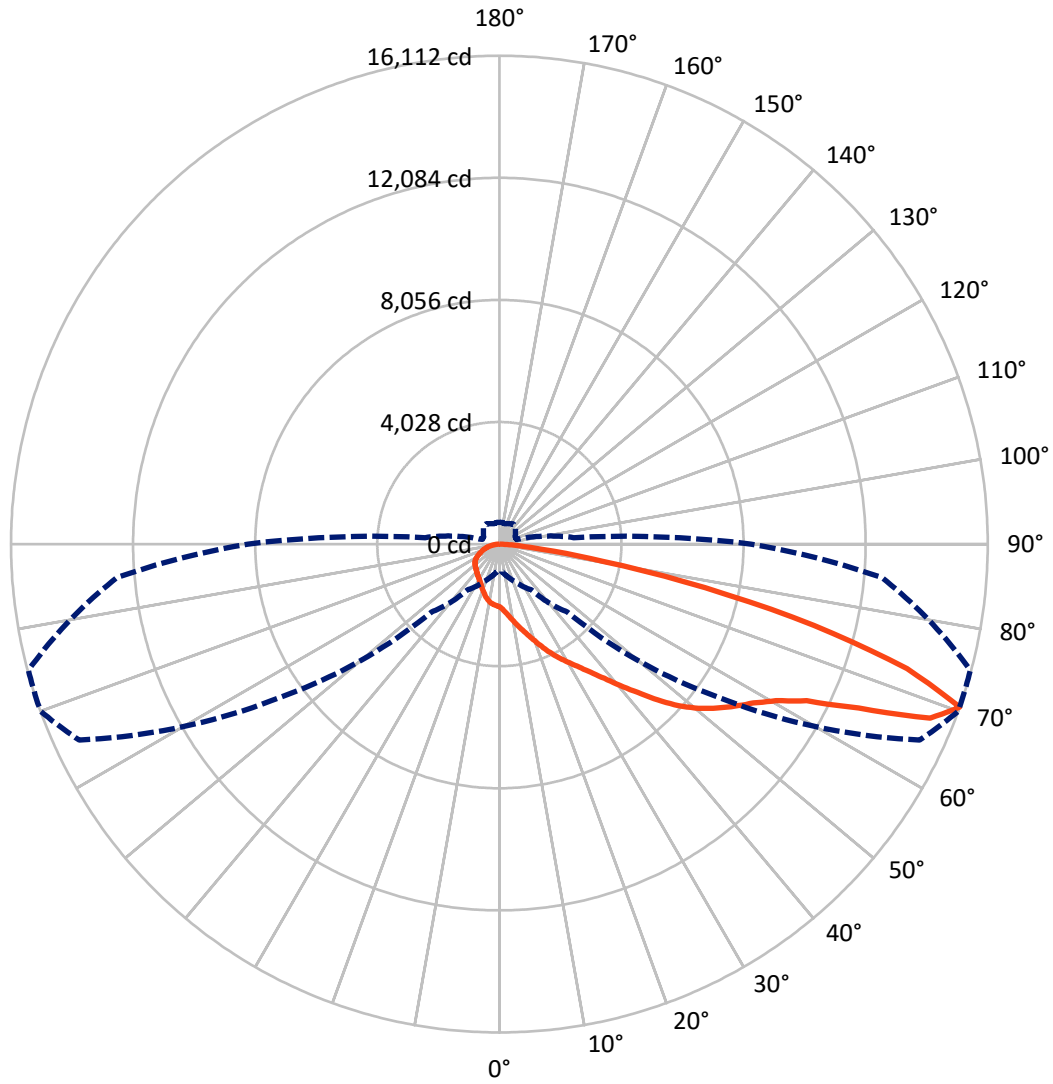
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



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

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3185.0	0.0	3185.0
	% Fixture	17.9	0.0	17.9
<b>Street Side</b>	Lumens	14588.2	0.0	14588.2
	% Fixture	82.1	0.0	82.1
<b>Total</b>	Lumens	17773.2	0.0	17773.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	210.7	1.2
10°-20°	685.3	3.9
20°-30°	1214.0	6.8
30°-40°	1827.2	10.3
40°-50°	2764.3	15.6
50°-60°	3960.0	22.3
60°-70°	4377.3	24.6
70°-80°	2470.2	13.9
80°-90°	264.2	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°	17773.2	100.0
0°-180°	17773.2	100.0

**Coefficient of Utilization**



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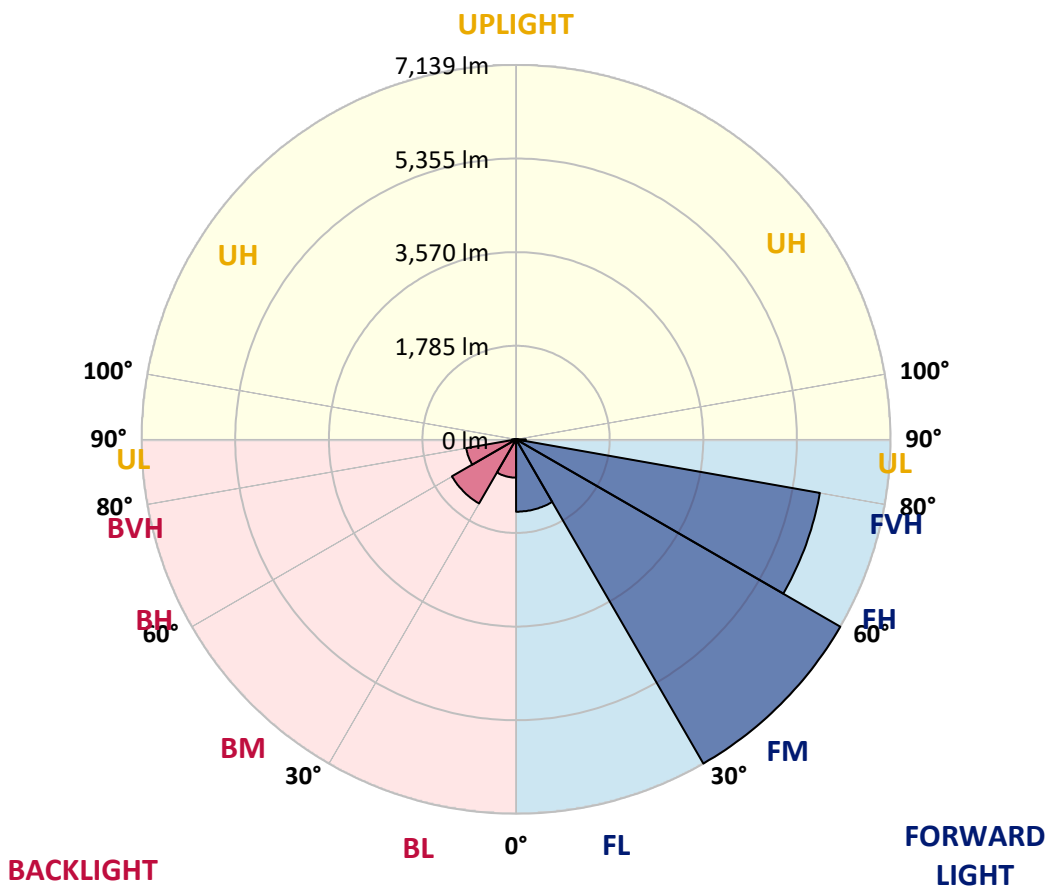
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1379.7	7.8			
FM (30°-60°)	7139.5	40.2			
FH (60°-80°)	5882.2	33.1			G3/7500
FVH (80°-90°)	186.8	1.1			G2/225
BL (0°-30°)	730.3	4.1	B2/1000		
BM (30°-60°)	1411.9	7.9	B2/2500		
BH (60°-80°)	965.3	5.4	B2/1000		G2/1000
BVH (80°-90°)	77.4	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-G3**

Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	2072.7	2072.7	2072.7	2072.7	2072.7	2072.7	2072.7	2072.7	2072.7	2072.7	2072.7
2.5°	2296.2	2292.3	2294.9	2292.3	2278.2	2243.5	2215.3	2179.3	2154.9	2140.8	2107.4
5°	2565.9	2562.0	2553.0	2540.2	2514.5	2467.0	2396.3	2318.0	2270.5	2234.5	2163.9
7.5°	2759.8	2759.8	2758.5	2743.1	2725.1	2675.0	2591.5	2488.8	2419.5	2357.8	2242.2
10°	2858.7	2865.1	2874.1	2895.9	2892.1	2865.1	2786.7	2676.3	2589.0	2517.1	2345.0
12.5°	2912.6	2916.5	2931.9	2976.8	3023.0	3029.5	2983.2	2867.7	2772.6	2676.3	2459.3
15°	2981.9	2983.2	3003.8	3057.7	3125.8	3193.8	3182.3	3066.7	2969.1	2862.5	2586.4
17.5°	3035.9	3044.9	3082.1	3145.0	3229.8	3323.5	3380.1	3308.1	3187.4	3065.4	2725.1
20°	3055.1	3061.6	3110.4	3206.7	3322.3	3454.5	3580.4	3561.1	3439.1	3295.3	2881.8
22.5°	3124.5	3124.5	3160.5	3241.4	3377.5	3570.1	3774.3	3824.4	3716.5	3548.3	3050.0
25°	3277.3	3272.2	3288.9	3322.3	3425.0	3662.6	3965.7	4115.9	3995.2	3806.4	3218.2
27.5°	3486.6	3484.1	3482.8	3487.9	3522.6	3743.5	4127.5	4388.2	4267.4	4054.3	3368.5
30°	3714.0	3706.2	3722.9	3707.5	3699.8	3839.8	4264.9	4632.2	4538.4	4299.6	3493.1
32.5°	4023.4	4009.3	4005.5	3955.4	3924.6	3990.1	4375.3	4909.6	4835.1	4564.1	3633.0
35°	4431.8	4419.0	4353.5	4273.9	4182.7	4213.5	4512.7	5180.5	5185.7	4895.4	3816.7
37.5°	4844.1	4846.6	4795.3	4607.8	4514.0	4496.0	4722.1	5510.6	5621.0	5291.0	4054.3
40°	5186.9	5202.4	5202.4	5004.6	4864.6	4847.9	5016.1	5902.3	6121.9	5776.4	4354.8
42.5°	5447.6	5461.8	5506.7	5364.2	5216.5	5274.3	5373.2	6295.2	6689.5	6376.1	4734.9
45°	5734.0	5745.6	5770.0	5687.8	5601.7	5755.9	5777.7	6765.2	7339.3	7049.1	5176.7
47.5°	6114.1	6103.9	6106.4	6046.1	5979.3	6228.4	6223.3	7160.8	7967.3	7786.2	5655.7
50°	6586.7	6606.0	6588.0	6468.6	6390.3	6617.6	6647.1	7598.7	8519.5	8515.6	6138.5
52.5°	7041.4	7049.1	7144.1	7149.2	6988.7	6941.2	7018.2	8040.5	8985.7	9183.4	6602.1
55°	7064.5	7094.0	7379.1	7584.6	7844.0	7462.6	7393.2	8461.7	9436.4	9837.1	7083.7
57.5°	6572.6	6620.1	7104.3	7547.3	8269.1	8357.7	8035.3	9006.2	9887.2	10480.5	7641.1
60°	5522.1	5621.0	6278.5	6956.6	8077.7	9001.1	9349.1	9745.9	10479.2	11138.0	8317.9
62.5°	3526.5	3565.0	4487.0	5622.3	7216.0	8938.1	10779.7	11049.4	11380.7	11994.6	9360.6
65°	1765.8	1889.1	2429.7	3355.7	5203.6	7876.1	11502.7	13436.7	13030.9	13461.1	11050.7
67.5°	1198.2	1238.0	1511.5	2016.2	3051.3	5579.9	11054.5	15447.8	15328.4	15399.0	12852.4
70°	883.5	909.2	1125.0	1428.0	1845.4	3168.2	8800.7	15296.3	16111.8	16086.1	12663.6
72.5°	644.7	657.5	820.6	1090.3	1367.7	1638.7	5374.4	12356.7	14064.7	14805.7	11075.1
75°	468.7	484.1	570.2	815.5	1063.3	1022.2	2653.2	8925.3	10725.8	12151.2	9022.9
77.5°	349.3	368.6	408.4	511.1	744.8	732.0	1146.8	5795.7	6937.3	7936.4	5481.0
80°	251.7	255.6	278.7	327.5	472.6	428.9	545.8	3021.8	3464.8	3796.1	2148.5
82.5°	152.8	156.7	186.2	201.6	292.8	269.7	283.8	978.6	1402.4	1488.4	802.6
85°	44.9	47.5	84.8	92.5	122.0	115.6	114.3	398.1	475.2	607.4	315.9
87.5°	0.0	0.0	0.0	0.0	1.3	7.7	14.1	70.6	106.6	147.7	77.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2072.7	2072.7	2072.7	2072.7	2072.7	2072.7	2072.7	2072.7	2072.7	2072.7	2072.7
2.5°	2094.6	2065.0	2049.6	2022.6	2003.4	1984.1	1964.8	1946.9	1939.2	1927.6	1930.2
5°	2131.8	2085.6	2039.3	1986.7	1941.7	1904.5	1871.1	1841.6	1828.7	1817.2	1822.3
7.5°	2188.3	2119.0	2030.3	1934.0	1863.4	1812.0	1777.4	1756.8	1750.4	1741.4	1741.4
10°	2260.2	2156.2	2000.8	1863.4	1778.6	1737.5	1722.1	1720.8	1727.3	1728.6	1726.0
12.5°	2339.8	2192.2	1957.1	1779.9	1708.0	1695.2	1706.7	1728.6	1750.4	1761.9	1759.4
15°	2422.0	2215.3	1882.7	1700.3	1656.6	1673.3	1710.6	1754.2	1796.6	1818.4	1817.2
17.5°	2499.1	2220.4	1786.3	1623.2	1611.7	1654.1	1718.3	1786.3	1844.1	1875.0	1876.2
20°	2585.1	2211.4	1687.5	1553.9	1566.7	1636.1	1720.8	1803.0	1871.1	1901.9	1909.6
22.5°	2663.5	2180.6	1591.1	1488.4	1528.2	1614.3	1700.3	1777.4	1837.7	1867.2	1877.5
25°	2734.1	2121.5	1485.8	1433.2	1498.7	1583.4	1648.9	1702.9	1745.2	1763.2	1777.4
27.5°	2772.6	2032.9	1406.2	1389.5	1470.4	1539.8	1575.7	1592.4	1606.6	1601.4	1611.7
30°	2780.3	1922.5	1336.9	1354.8	1428.0	1479.4	1487.1	1470.4	1446.0	1406.2	1415.2
32.5°	2772.6	1795.3	1279.1	1317.6	1380.5	1411.4	1401.1	1357.4	1298.3	1236.7	1240.6
35°	2775.2	1666.9	1231.6	1276.5	1325.3	1342.0	1316.3	1256.0	1193.0	1136.5	1134.0
37.5°	2803.4	1559.0	1191.8	1236.7	1271.4	1273.9	1245.7	1182.8	1150.7	1108.3	1103.1
40°	2881.8	1479.4	1155.8	1196.9	1218.7	1217.4	1185.3	1140.4	1162.2	1148.1	1144.2
42.5°	3010.2	1430.6	1126.3	1154.5	1169.9	1172.5	1146.8	1118.6	1166.1	1148.1	1141.7
45°	3217.0	1428.0	1105.7	1112.1	1136.5	1154.5	1136.5	1104.4	1122.4	1035.1	1018.4
47.5°	3462.2	1471.7	1090.3	1074.9	1117.3	1149.4	1121.1	1069.8	1032.5	952.9	941.3
50°	3757.6	1560.3	1076.2	1035.1	1089.0	1130.1	1101.9	1031.2	974.7	932.3	925.9
52.5°	4108.2	1677.2	1058.2	990.1	1046.6	1119.8	1101.9	1027.4	952.9	914.4	907.9
55°	4475.5	1812.0	1037.6	936.2	999.1	1122.4	1110.8	1000.4	936.2	915.6	910.5
57.5°	4931.4	1973.8	1000.4	873.3	956.7	1099.3	1074.9	985.0	924.6	907.9	902.8
60°	5523.4	2214.0	929.8	809.1	907.9	1058.2	1042.8	959.3	893.8	879.7	875.8
62.5°	6460.9	2621.1	843.7	747.4	850.2	972.2	995.3	910.5	855.3	854.0	852.7
65°	7989.1	3110.4	742.3	692.2	789.8	901.5	932.3	860.4	815.5	829.6	828.3
67.5°	9060.1	3152.7	658.8	634.4	719.2	824.5	869.4	809.1	760.3	787.2	785.9
70°	8298.6	2459.3	586.9	574.0	643.4	741.0	801.4	744.8	696.0	721.7	716.6
72.5°	6999.0	1885.2	518.8	511.1	566.3	653.7	714.0	680.6	629.3	629.3	617.7
75°	5624.9	1555.2	446.9	443.1	480.3	565.1	633.1	576.6	529.1	526.5	518.8
77.5°	3225.9	1019.7	375.0	372.4	384.0	472.6	491.9	480.3	444.3	427.6	422.5
80°	1285.5	530.4	295.4	278.7	290.2	346.7	387.8	368.6	337.7	317.2	305.6
82.5°	498.3	265.8	208.0	182.4	199.1	250.4	281.2	274.8	254.3	208.0	195.2
85°	202.9	129.7	124.6	105.3	115.6	134.8	161.8	140.0	115.6	82.2	78.3
87.5°	53.9	47.5	46.2	28.3	21.8	6.4	1.3	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)