

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: P637281

Luminaire Tested: GWS-SA4C-740-U-T2-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P637281  
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-SA4C-740-U-T2-W  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS  
Light Source: (64) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

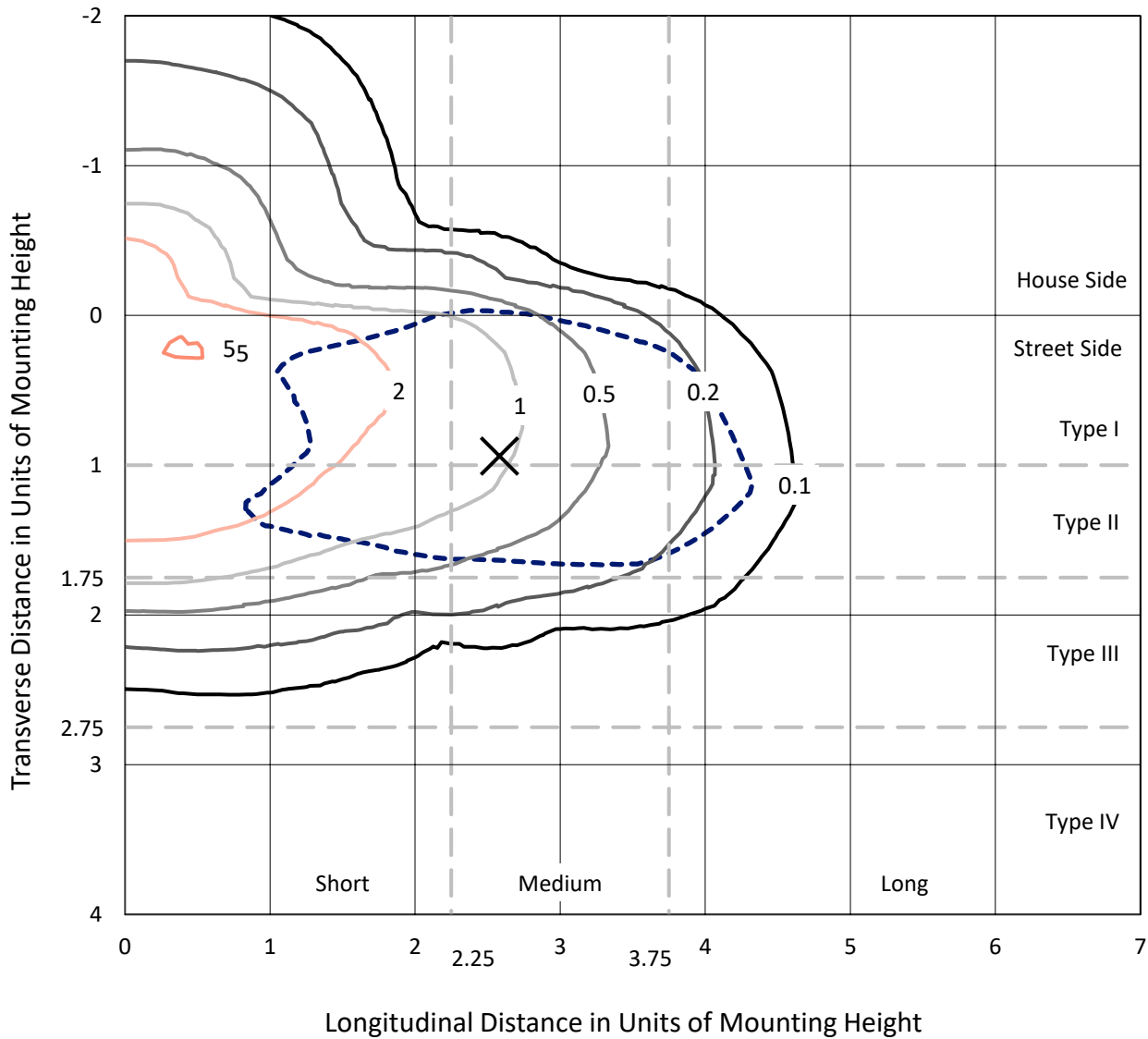
Lumens per Lamp: N/A  
Luminaire Lumens: 19259.2 lumens  
Efficiency: N/A  
Efficacy: 149.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 128.5  
Input Voltage (V): 120  
Input Current (Ain): 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: P637281  
 CATALOG NUMBER: GWS-SA4C-740-U-T2-W

### Iso-Footcandle Lines of Horizontal Illumination

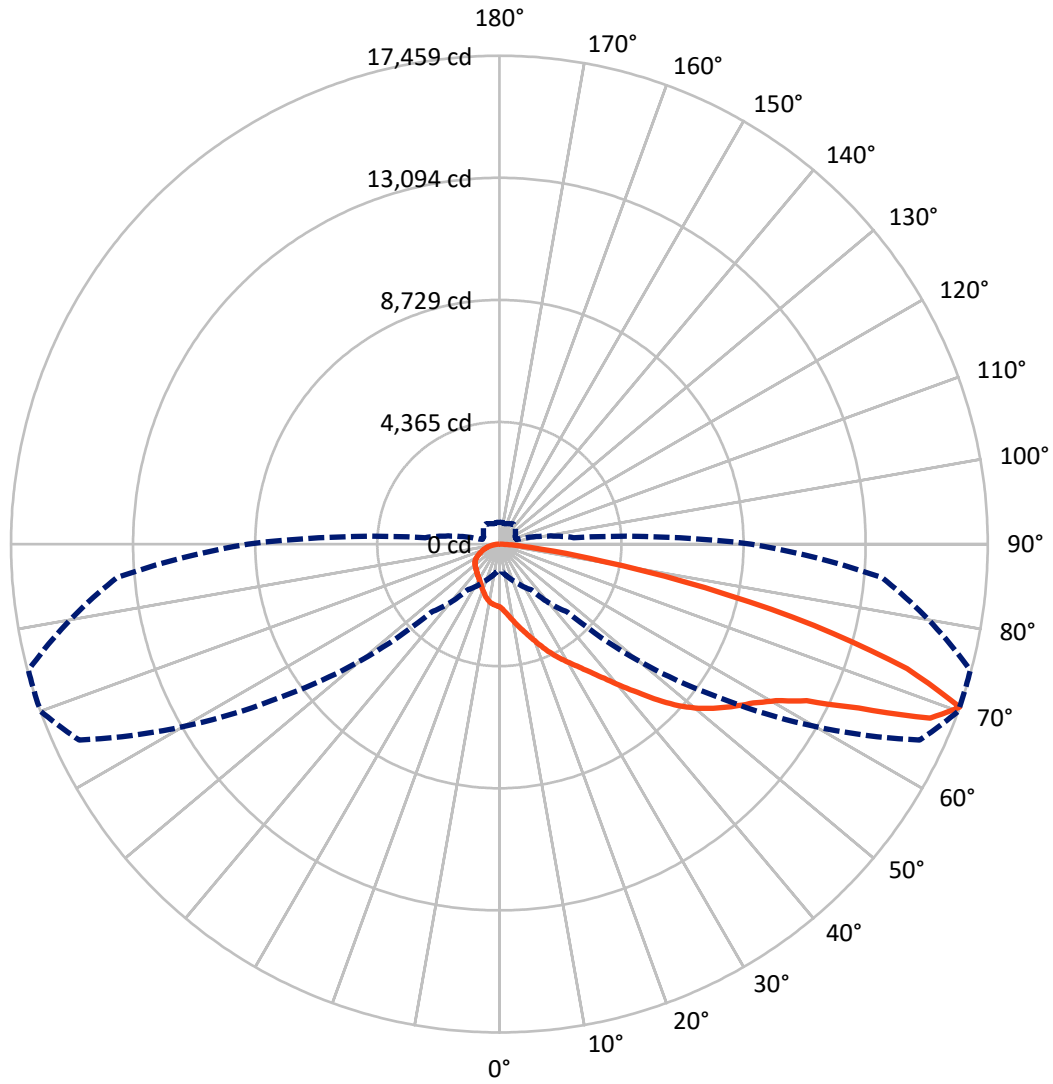
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 fc  
 Type II - Medium - N/A

REPORT NUMBER: P637281  
CATALOG NUMBER: GWS-SA4C-740-U-T2-W

### Luminous Intensity Polar Plot



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



REPORT NUMBER: P637281

CATALOG NUMBER: GWS-SA4C-740-U-T2-W

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3451.3	0.0	3451.3
	% Fixture	17.9	0.0	17.9
<b>Street Side</b>	Lumens	15807.9	0.0	15807.9
	% Fixture	82.1	0.0	82.1
<b>Total</b>	Lumens	19259.2	0.0	19259.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	228.3	1.2
10°-20°	742.6	3.9
20°-30°	1315.5	6.8
30°-40°	1979.9	10.3
40°-50°	2995.4	15.6
50°-60°	4291.1	22.3
60°-70°	4743.3	24.6
70°-80°	2676.8	13.9
80°-90°	286.3	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°	19259.2	100.0
0°-180°	19259.2	100.0

**Coefficient of Utilization**



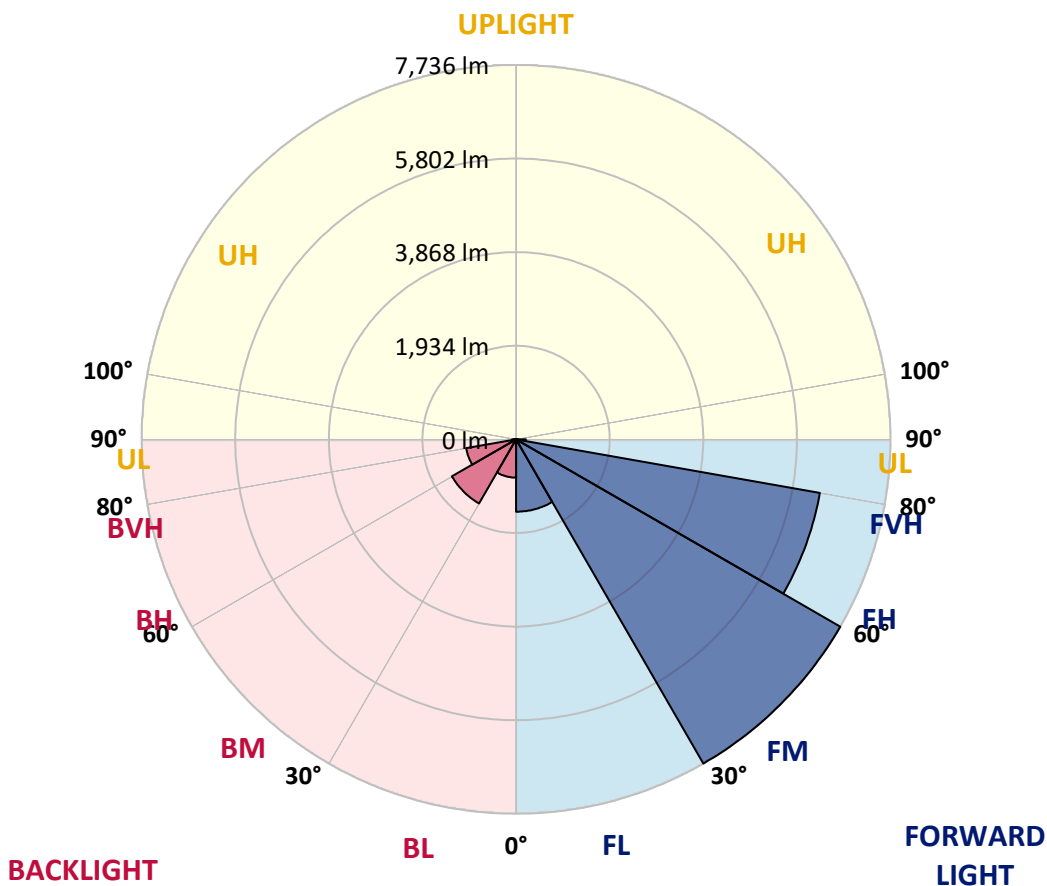
REPORT NUMBER: P637281

CATALOG NUMBER: GWS-SA4C-740-U-T2-W

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1495.1	7.8			
FM (30°-60°)	7736.4	40.2			
FH (60°-80°)	6374.0	33.1			G3/7500
FVH (80°-90°)	202.4	1.1			G2/225
BL (0°-30°)	791.3	4.1	B2/1000		
BM (30°-60°)	1530.0	7.9	B2/2500		
BH (60°-80°)	1046.1	5.4	B3/2500		G3/2500
BVH (80°-90°)	83.9	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**  
 Type II Medium





REPORT NUMBER: P637281

CATALOG NUMBER: GWS-SA4C-740-U-T2-W

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	2246.0	2246.0	2246.0	2246.0	2246.0	2246.0	2246.0	2246.0	2246.0	2246.0	2246.0
2.5°	2488.2	2484.0	2486.8	2484.0	2468.7	2431.1	2400.5	2361.5	2335.1	2319.8	2283.6
5°	2780.4	2776.2	2766.5	2752.6	2724.7	2673.2	2596.7	2511.8	2460.3	2421.4	2344.8
7.5°	2990.5	2990.5	2989.1	2972.4	2952.9	2898.7	2808.2	2696.9	2621.8	2555.0	2429.7
10°	3097.7	3104.6	3114.4	3138.0	3133.9	3104.6	3019.7	2900.1	2805.4	2727.5	2541.0
12.5°	3156.1	3160.3	3177.0	3225.7	3275.8	3282.8	3232.7	3107.4	3004.4	2900.1	2664.9
15°	3231.3	3232.7	3254.9	3313.4	3387.1	3460.9	3448.4	3323.1	3217.3	3101.8	2802.7
17.5°	3289.7	3299.5	3339.8	3408.0	3499.8	3601.4	3662.7	3584.7	3453.9	3321.7	2952.9
20°	3310.6	3317.5	3370.4	3474.8	3600.0	3743.4	3879.7	3858.9	3726.7	3570.8	3122.7
22.5°	3385.7	3385.7	3424.7	3512.4	3659.9	3868.6	4089.9	4144.1	4027.3	3845.0	3305.0
25°	3551.3	3545.8	3563.9	3600.0	3711.4	3968.8	4297.2	4460.0	4329.2	4124.7	3487.3
27.5°	3778.2	3775.4	3774.0	3779.6	3817.1	4056.5	4472.6	4755.1	4624.2	4393.2	3650.1
30°	4024.5	4016.1	4034.2	4017.5	4009.2	4160.8	4621.5	5019.5	4917.9	4659.0	3785.1
32.5°	4359.8	4344.5	4340.4	4286.1	4252.7	4323.7	4741.1	5320.0	5239.3	4945.7	3936.8
35°	4802.4	4788.5	4717.5	4631.2	4532.4	4565.8	4890.0	5613.7	5619.2	5304.7	4135.8
37.5°	5249.1	5251.8	5196.2	4993.0	4891.4	4871.9	5116.9	5971.3	6091.0	5733.3	4393.2
40°	5620.6	5637.3	5637.3	5423.0	5271.3	5253.2	5435.5	6395.7	6633.7	6259.4	4718.9
42.5°	5903.1	5918.4	5967.1	5812.7	5652.6	5715.2	5822.4	6821.6	7248.8	6909.2	5130.8
45°	6213.4	6226.0	6252.4	6163.3	6070.1	6237.1	6260.8	7330.9	7952.9	7638.4	5609.5
47.5°	6625.3	6614.2	6617.0	6551.6	6479.2	6749.2	6743.6	7759.5	8633.4	8437.2	6128.5
50°	7137.5	7158.3	7138.8	7009.4	6924.5	7170.8	7202.9	8234.0	9231.8	9227.6	6651.8
52.5°	7630.1	7638.4	7741.4	7747.0	7573.0	7521.5	7605.0	8712.7	9736.9	9951.2	7154.1
55°	7655.1	7687.1	7996.1	8218.7	8499.8	8086.5	8011.4	9169.2	10225.4	10659.6	7676.0
57.5°	7122.1	7173.6	7698.3	8178.4	8960.4	9056.4	8707.2	9759.2	10713.8	11356.7	8279.9
60°	5983.8	6091.0	6803.5	7538.2	8753.1	9753.6	10130.8	10560.8	11355.4	12069.2	9013.3
62.5°	3821.3	3863.0	4862.2	6092.4	7819.3	9685.4	11681.0	11973.2	12332.2	12997.4	10143.3
65°	1913.4	2047.0	2632.9	3636.2	5638.7	8534.6	12464.4	14560.2	14120.4	14586.6	11974.6
67.5°	1298.4	1341.5	1637.9	2184.8	3306.4	6046.4	11978.8	16739.4	16610.0	16686.5	13927.0
70°	957.4	985.2	1219.0	1547.4	1999.7	3433.0	9536.5	16575.2	17458.9	17431.0	13722.4
72.5°	698.6	712.5	889.2	1181.5	1482.0	1775.7	5823.8	13389.9	15240.7	16043.6	12001.0
75°	507.9	524.6	617.9	883.7	1152.2	1107.7	2875.0	9671.5	11622.5	13167.2	9777.3
77.5°	378.5	399.4	442.5	553.9	807.1	793.2	1242.7	6280.2	7517.4	8600.0	5939.3
80°	272.8	276.9	302.0	354.9	512.1	464.8	591.4	3274.4	3754.5	4113.5	2328.1
82.5°	165.6	169.8	201.8	218.5	317.3	292.2	307.5	1060.4	1519.6	1612.8	869.7
85°	48.7	51.5	91.8	100.2	132.2	125.2	123.9	431.4	514.9	658.2	342.3
87.5°	0.0	0.0	0.0	0.0	1.4	8.3	15.3	76.5	115.5	160.0	83.5
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: P637281  
 CATALOG NUMBER: GWS-SA4C-740-U-T2-W

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2246.0	2246.0	2246.0	2246.0	2246.0	2246.0	2246.0	2246.0	2246.0	2246.0	2246.0
2.5°	2269.7	2237.7	2221.0	2191.7	2170.9	2150.0	2129.1	2109.6	2101.3	2088.8	2091.6
5°	2310.0	2259.9	2209.8	2152.8	2104.1	2063.7	2027.5	1995.5	1981.6	1969.1	1974.7
7.5°	2371.3	2296.1	2200.1	2095.7	2019.2	1963.5	1926.0	1903.7	1896.7	1887.0	1887.0
10°	2449.2	2336.5	2168.1	2019.2	1927.3	1882.8	1866.1	1864.7	1871.7	1873.1	1870.3
12.5°	2535.5	2375.4	2120.8	1928.7	1850.8	1836.9	1849.4	1873.1	1896.7	1909.3	1906.5
15°	2624.5	2400.5	2040.1	1842.5	1795.1	1813.2	1853.6	1900.9	1946.8	1970.5	1969.1
17.5°	2708.0	2406.1	1935.7	1759.0	1746.4	1792.4	1861.9	1935.7	1998.3	2031.7	2033.1
20°	2801.3	2396.3	1828.5	1683.8	1697.7	1772.9	1864.7	1953.8	2027.5	2060.9	2069.3
22.5°	2886.2	2362.9	1724.2	1612.8	1656.0	1749.2	1842.5	1926.0	1991.4	2023.4	2034.5
25°	2962.7	2298.9	1610.1	1553.0	1624.0	1715.8	1786.8	1845.2	1891.2	1910.6	1926.0
27.5°	3004.4	2202.9	1523.8	1505.7	1593.4	1668.5	1707.5	1725.6	1740.9	1735.3	1746.4
30°	3012.8	2083.2	1448.6	1468.1	1547.4	1603.1	1611.5	1593.4	1566.9	1523.8	1533.5
32.5°	3004.4	1945.4	1386.0	1427.8	1496.0	1529.4	1518.2	1470.9	1406.9	1340.1	1344.3
35°	3007.2	1806.3	1334.5	1383.2	1436.1	1454.2	1426.4	1361.0	1292.8	1231.6	1228.8
37.5°	3037.8	1689.4	1291.4	1340.1	1377.7	1380.5	1349.8	1281.7	1246.9	1200.9	1195.4
40°	3122.7	1603.1	1252.4	1297.0	1320.6	1319.2	1284.4	1235.7	1259.4	1244.1	1239.9
42.5°	3261.9	1550.2	1220.4	1251.0	1267.7	1270.5	1242.7	1212.1	1263.6	1244.1	1237.1
45°	3485.9	1547.4	1198.2	1205.1	1231.6	1251.0	1231.6	1196.8	1216.2	1121.6	1103.5
47.5°	3751.7	1594.8	1181.5	1164.8	1210.7	1245.5	1214.9	1159.2	1118.8	1032.6	1020.0
50°	4071.8	1690.8	1166.1	1121.6	1180.1	1224.6	1194.0	1117.4	1056.2	1010.3	1003.3
52.5°	4451.7	1817.4	1146.7	1072.9	1134.1	1213.5	1194.0	1113.3	1032.6	990.8	983.9
55°	4849.7	1963.5	1124.4	1014.5	1082.7	1216.2	1203.7	1084.0	1014.5	992.2	986.6
57.5°	5343.7	2138.9	1084.0	946.3	1036.7	1191.2	1164.8	1067.3	1001.9	983.9	978.3
60°	5985.2	2399.1	1007.5	876.7	983.9	1146.7	1130.0	1039.5	968.5	953.2	949.1
62.5°	7001.1	2840.2	914.3	809.9	921.2	1053.4	1078.5	986.6	926.8	925.4	924.0
65°	8657.1	3370.4	804.3	750.1	855.8	976.9	1010.3	932.4	883.7	899.0	897.6
67.5°	9817.6	3416.3	713.9	687.4	779.3	893.4	942.1	876.7	823.8	853.0	851.7
70°	8992.4	2664.9	636.0	622.0	697.2	802.9	868.4	807.1	754.2	782.1	776.5
72.5°	7584.1	2042.8	562.2	553.9	613.7	708.3	773.7	737.5	681.9	681.9	669.4
75°	6095.2	1685.2	484.3	480.1	520.5	612.3	686.1	624.8	573.3	570.6	562.2
77.5°	3495.7	1104.9	406.3	403.6	416.1	512.1	533.0	520.5	481.5	463.4	457.8
80°	1393.0	574.7	320.1	302.0	314.5	375.7	420.3	399.4	366.0	343.7	331.2
82.5°	539.9	288.1	225.4	197.6	215.7	271.4	304.8	297.8	275.5	225.4	211.5
85°	219.9	140.6	135.0	114.1	125.2	146.1	175.3	151.7	125.2	89.1	84.9
87.5°	58.4	51.5	50.1	30.6	23.7	7.0	1.4	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)