

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: P639760

Luminaire Tested: GWS-SA5C-740-U-T2R-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639760
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-SA5C-740-U-T2R-W
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS
Light Source: (80) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24281.1 lumens
Efficiency: N/A
Efficacy: 154.2 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): 157.5
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

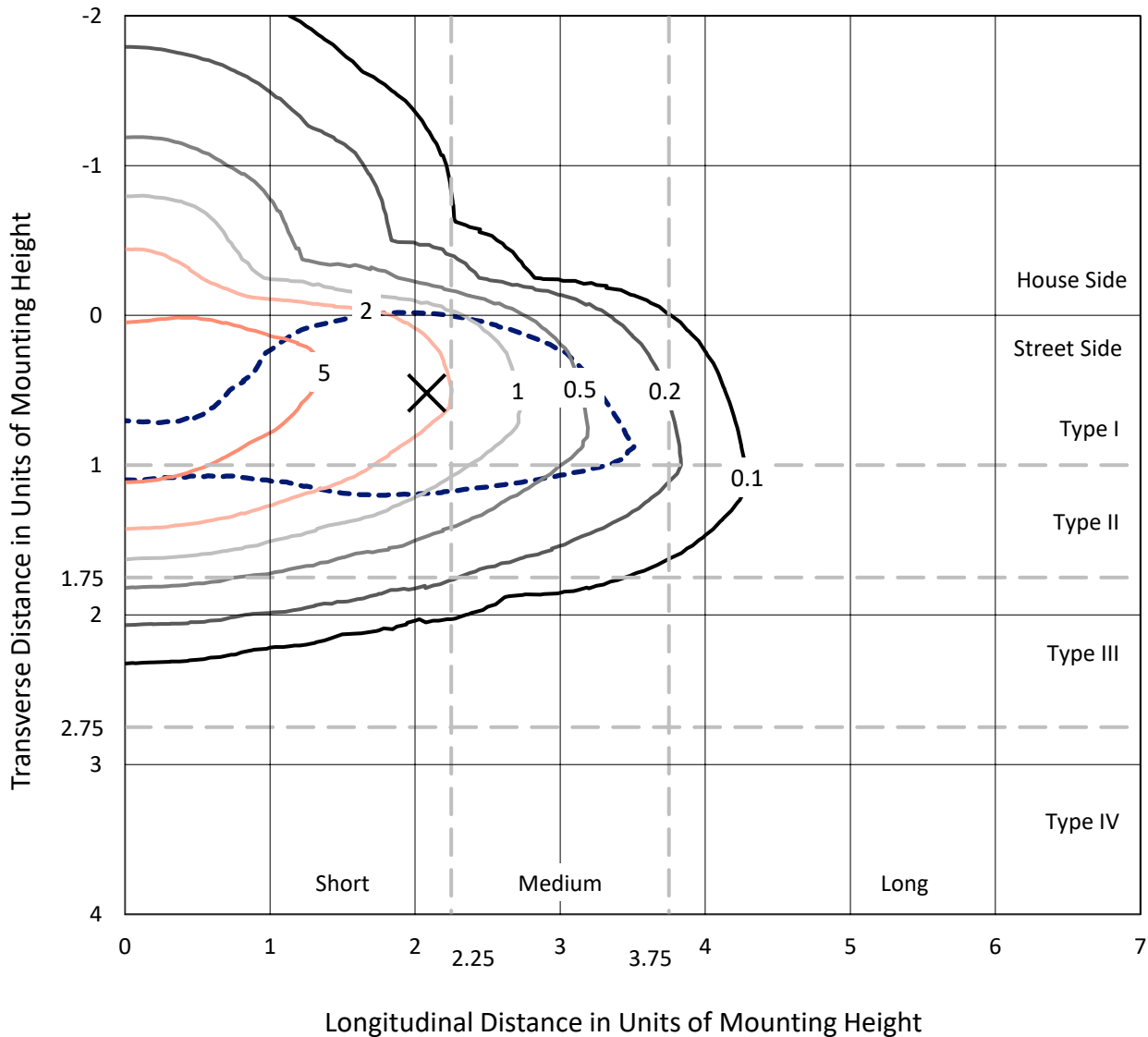


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Iso-Footcandle Lines of Horizontal Illumination

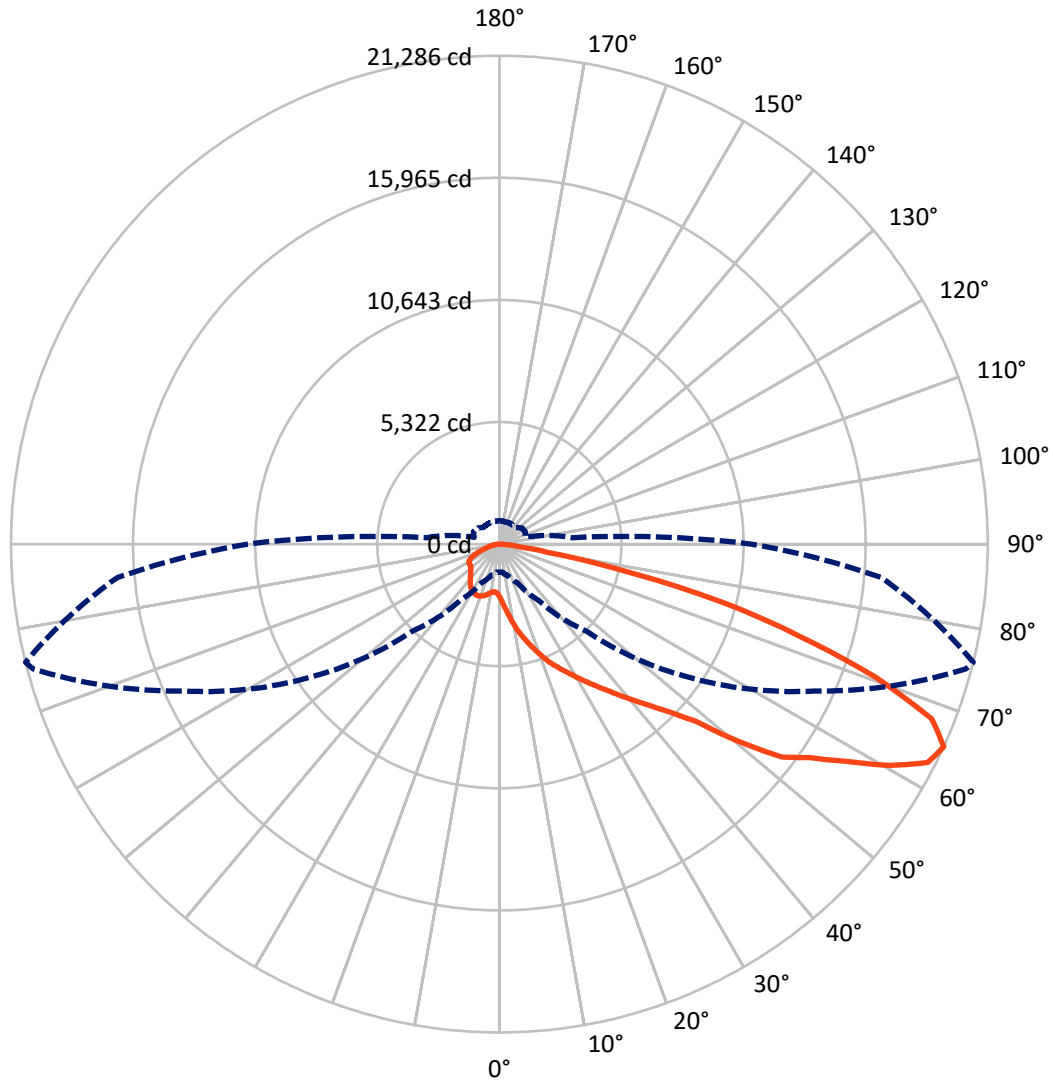
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4058.6	0.0	4058.6
	% Fixture	16.7	0.0	16.7
Street Side	Lumens	20222.5	0.0	20222.5
	% Fixture	83.3	0.0	83.3
Total	Lumens	24281.1	0.0	24281.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	273.2	1.1
10°-20°	1040.5	4.3
20°-30°	2027.8	8.4
30°-40°	3391.3	14.0
40°-50°	4855.7	20.0
50°-60°	5748.5	23.7
60°-70°	4779.9	19.7
70°-80°	1956.1	8.1
80°-90°	208.3	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°	24281.1	100.0
0°-180°	24281.1	100.0

Coefficient of Utilization



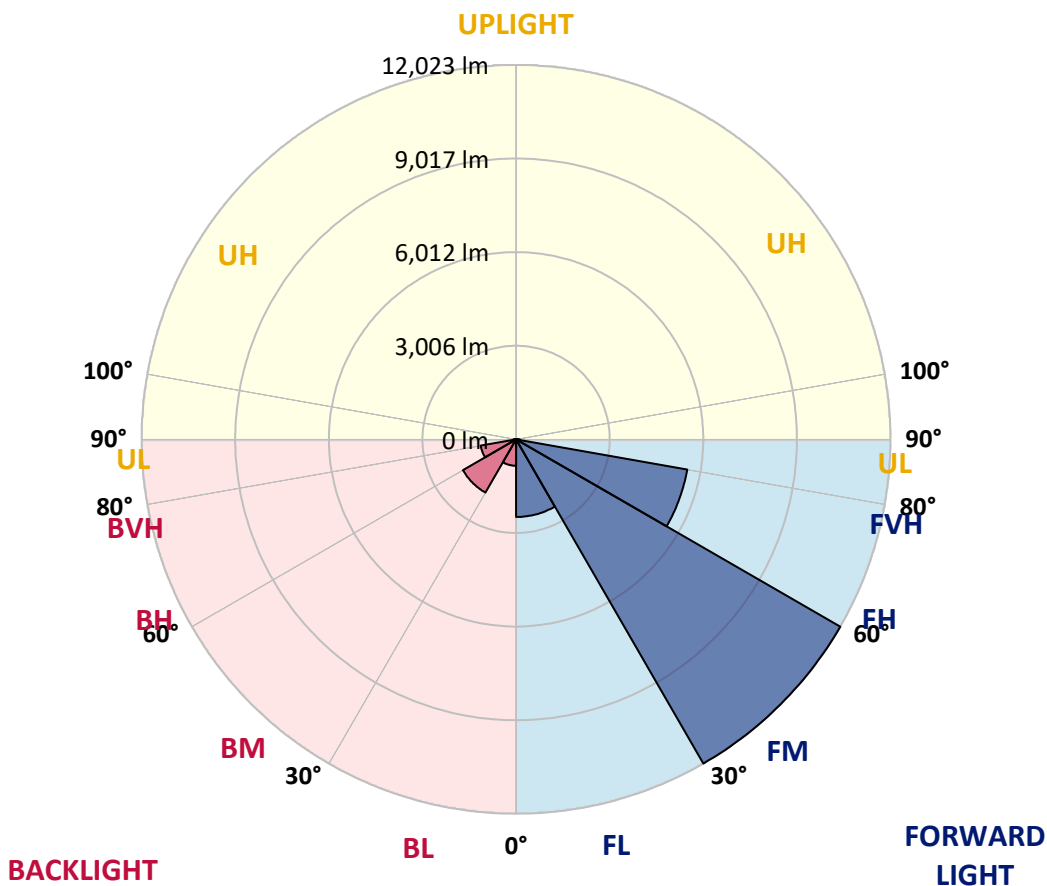
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2492.4	10.3			
FM (30°-60°)	12023.1	49.5			
FH (60°-80°)	5582.8	23.0			G3/7500
FVH (80°-90°)	124.2	0.5			G2/225
BL (0°-30°)	849.1	3.5	B2/1000		
BM (30°-60°)	1972.4	8.1	B2/2500		
BH (60°-80°)	1153.1	4.7	B3/2500		G3/2500
BVH (80°-90°)	84.1	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2299.3	2299.3	2299.3	2299.3	2299.3	2299.3	2299.3	2299.3	2299.3	2299.3	2299.3
2.5°	3222.8	3234.8	3195.5	3181.8	3089.7	2965.1	2860.9	2703.9	2558.8	2536.6	2406.9
5°	4093.4	4042.2	3997.8	3968.8	3840.8	3699.1	3478.9	3183.6	2874.6	2837.0	2557.1
7.5°	4610.6	4602.1	4547.5	4530.4	4431.4	4289.7	4062.7	3695.7	3246.7	3185.3	2760.2
10°	5025.4	5020.3	4993.0	5008.3	4917.9	4779.6	4559.4	4180.4	3654.7	3593.2	2987.3
12.5°	5387.3	5395.8	5390.7	5447.0	5401.0	5293.4	5064.7	4648.2	4062.7	3996.1	3263.8
15°	5651.9	5658.7	5684.3	5807.2	5832.8	5810.6	5578.5	5107.3	4465.5	4369.9	3548.9
17.5°	5727.0	5740.6	5802.1	6000.1	6138.4	6230.6	6058.1	5575.1	4861.5	4757.4	3839.0
20°	5827.7	5843.1	5904.5	6111.1	6314.2	6524.2	6493.4	6049.6	5261.0	5175.6	4132.6
22.5°	6293.7	6281.8	6254.5	6353.5	6498.6	6759.7	6836.5	6505.4	5674.1	5592.1	4457.0
25°	7191.6	7169.4	6995.3	6904.8	6857.0	7015.8	7152.3	6920.2	6076.9	5954.0	4759.1
27.5°	8181.7	8169.7	7947.8	7732.7	7439.1	7370.8	7451.1	7282.1	6467.8	6343.2	5022.0
30°	9118.8	9083.0	8850.8	8581.1	8188.5	7894.9	7777.1	7637.1	6896.3	6766.6	5329.3
32.5°	9956.9	9910.8	9637.7	9339.0	8927.6	8581.1	8229.5	8014.4	7381.1	7230.9	5643.3
35°	10644.9	10598.8	10318.8	10001.3	9549.0	9292.9	8811.5	8424.1	7874.4	7722.5	6013.8
37.5°	11177.4	11134.8	10842.9	10530.5	10136.2	9933.0	9514.8	8884.9	8442.8	8284.1	6406.4
40°	11476.2	11445.4	11211.6	10964.1	10632.9	10457.1	10269.3	9467.0	9079.5	8920.8	6869.0
42.5°	11566.6	11546.2	11382.3	11254.3	11030.6	10897.5	11005.0	10151.5	9758.9	9620.7	7389.6
45°	11339.6	11339.6	11291.8	11356.7	11366.9	11365.2	11742.5	10924.8	10593.6	10441.7	8123.6
47.5°	10759.2	10796.8	10866.8	11186.0	11522.3	11803.9	12604.5	11955.8	11667.4	11542.7	9163.2
50°	9697.5	9799.9	10038.9	10661.9	11377.2	12094.1	13420.4	13480.2	13755.0	13534.8	10692.7
52.5°	8142.4	8127.0	8736.4	9624.1	10714.8	12106.1	13869.4	14825.3	15564.4	15412.5	11829.5
55°	6471.2	6445.6	7014.1	8238.0	9699.2	11648.6	14139.1	15441.5	16568.2	16431.6	12852.0
57.5°	4955.4	4923.0	5428.3	6532.7	8265.3	10677.3	14087.9	16175.5	17949.1	17879.1	14241.5
60°	3410.6	3371.3	3844.2	4810.3	6568.5	9192.2	13521.2	16552.8	19565.6	19589.5	15728.3
62.5°	2048.4	2026.2	2369.3	3118.7	4725.0	7352.1	12194.8	16324.1	20852.7	20960.3	16684.2
65°	1235.9	1220.5	1421.9	1860.6	2997.5	5365.1	10149.8	15154.8	21038.8	21286.3	16706.4
67.5°	899.6	901.3	959.3	1133.4	1748.0	3465.2	7616.6	13058.6	20069.2	20325.3	15653.2
70°	781.8	785.2	815.9	855.2	1056.6	1983.5	4952.0	10308.6	17203.2	17401.2	13128.5
72.5°	694.7	694.7	715.2	735.7	826.2	1208.6	2652.7	7205.3	13577.5	13630.4	10020.1
75°	611.1	606.0	616.2	626.5	716.9	845.0	1290.5	5020.3	10028.6	9905.7	6476.4
77.5°	486.5	481.4	483.1	493.3	575.3	604.3	653.8	3135.8	5651.9	5334.4	2860.9
80°	346.5	343.1	361.9	387.5	425.0	370.4	409.7	1517.5	2241.3	2086.0	1109.6
82.5°	206.5	213.4	242.4	262.9	293.6	232.2	264.6	507.0	793.8	773.3	450.6
85°	29.0	30.7	87.1	100.7	126.3	90.5	140.0	228.7	317.5	339.7	158.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	11.9	41.0	90.5	92.2	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2299.3	2299.3	2299.3	2299.3	2299.3	2299.3	2299.3	2299.3	2299.3	2299.3	2299.3
2.5°	2340.3	2260.1	2145.7	2050.1	1969.9	1905.0	1850.4	1809.4	1797.5	1780.4	1780.4
5°	2425.6	2280.6	2075.7	1930.6	1847.0	1797.5	1763.3	1746.3	1737.7	1727.5	1722.4
7.5°	2543.4	2340.3	2063.8	1917.0	1852.1	1821.4	1799.2	1788.9	1782.1	1771.9	1771.9
10°	2705.6	2429.1	2101.3	1964.8	1913.5	1882.8	1857.2	1840.1	1824.8	1809.4	1806.0
12.5°	2881.4	2545.1	2169.6	2029.6	1975.0	1937.4	1901.6	1876.0	1857.2	1838.4	1833.3
15°	3076.0	2664.6	2243.0	2092.8	2024.5	1973.3	1930.6	1891.4	1865.8	1838.4	1835.0
17.5°	3267.2	2785.8	2304.5	2135.5	2048.4	1985.2	1923.8	1872.6	1840.1	1809.4	1800.9
20°	3495.9	2907.0	2347.1	2147.4	2043.3	1959.6	1886.2	1821.4	1785.5	1749.7	1744.6
22.5°	3705.9	3019.7	2367.6	2130.3	2004.0	1905.0	1819.7	1749.7	1710.4	1674.6	1667.7
25°	3909.0	3118.7	2359.1	2089.4	1944.3	1829.9	1741.1	1671.2	1633.6	1596.0	1585.8
27.5°	4105.3	3185.3	2324.9	2026.2	1869.2	1746.3	1660.9	1597.8	1565.3	1532.9	1519.2
30°	4298.2	3246.7	2272.0	1944.3	1773.6	1659.2	1589.2	1544.8	1512.4	1478.3	1468.0
32.5°	4492.8	3291.1	2191.8	1848.7	1676.3	1582.4	1539.7	1507.3	1473.1	1439.0	1428.8
35°	4689.1	3309.9	2094.5	1739.4	1594.3	1532.9	1517.5	1480.0	1433.9	1392.9	1379.3
37.5°	4923.0	3326.9	1973.3	1631.9	1522.6	1509.0	1505.6	1449.2	1394.6	1338.3	1322.9
40°	5204.6	3349.1	1848.7	1534.6	1464.6	1500.5	1486.8	1410.0	1300.7	1246.1	1229.0
42.5°	5549.5	3390.1	1719.0	1445.8	1421.9	1468.0	1452.7	1314.4	1241.0	1210.3	1201.7
45°	6056.4	3540.3	1589.2	1375.8	1389.5	1421.9	1398.0	1258.1	1229.0	1208.6	1198.3
47.5°	6959.4	3770.8	1476.6	1322.9	1363.9	1381.0	1288.8	1242.7	1220.5	1193.2	1181.2
50°	7898.3	3871.5	1386.1	1290.5	1334.9	1343.4	1229.0	1222.2	1206.8	1177.8	1165.9
52.5°	8533.3	3857.8	1331.5	1278.5	1311.0	1278.5	1201.7	1200.0	1189.8	1155.6	1142.0
55°	9250.2	3881.7	1307.6	1282.0	1300.7	1169.3	1167.6	1172.7	1167.6	1130.0	1123.2
57.5°	10218.1	3955.1	1295.6	1293.9	1293.9	1116.4	1135.2	1142.0	1131.7	1114.7	1109.6
60°	11148.4	3960.2	1273.4	1307.6	1288.8	1083.9	1097.6	1104.4	1092.5	1089.1	1087.4
62.5°	11498.4	3714.4	1223.9	1297.3	1268.3	1048.1	1058.3	1061.8	1049.8	1058.3	1056.6
65°	10977.7	3192.1	1142.0	1247.8	1205.1	1015.7	1008.8	1017.4	996.9	1019.1	1020.8
67.5°	9747.0	2536.6	1017.4	1153.9	1116.4	979.8	966.2	966.2	932.0	966.2	964.5
70°	7859.0	1792.4	834.7	1003.7	1019.1	937.1	930.3	891.1	836.4	887.6	882.5
72.5°	5957.4	1287.1	657.2	793.8	877.4	877.4	879.1	812.5	749.4	773.3	752.8
75°	3774.2	906.4	525.8	607.7	687.9	769.9	809.1	686.2	629.9	619.6	609.4
77.5°	1700.2	595.7	409.7	466.0	488.2	607.7	739.1	590.6	513.8	491.6	484.8
80°	711.8	370.4	291.9	329.5	300.4	510.4	652.1	459.2	377.2	346.5	324.3
82.5°	312.4	220.2	186.1	177.5	187.8	379.0	486.5	305.6	235.6	319.2	322.6
85°	131.4	116.1	95.6	87.1	76.8	145.1	228.7	119.5	146.8	83.6	68.3
87.5°	30.7	34.1	25.6	17.1	10.2	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)