

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: P642180

Luminaire Tested: GWS-SA6C-735-U-T2R-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P642180
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-SA6C-735-U-T2R-W
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS
Light Source: (96) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28556.6 lumens
Efficiency: N/A
Efficacy: 150.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

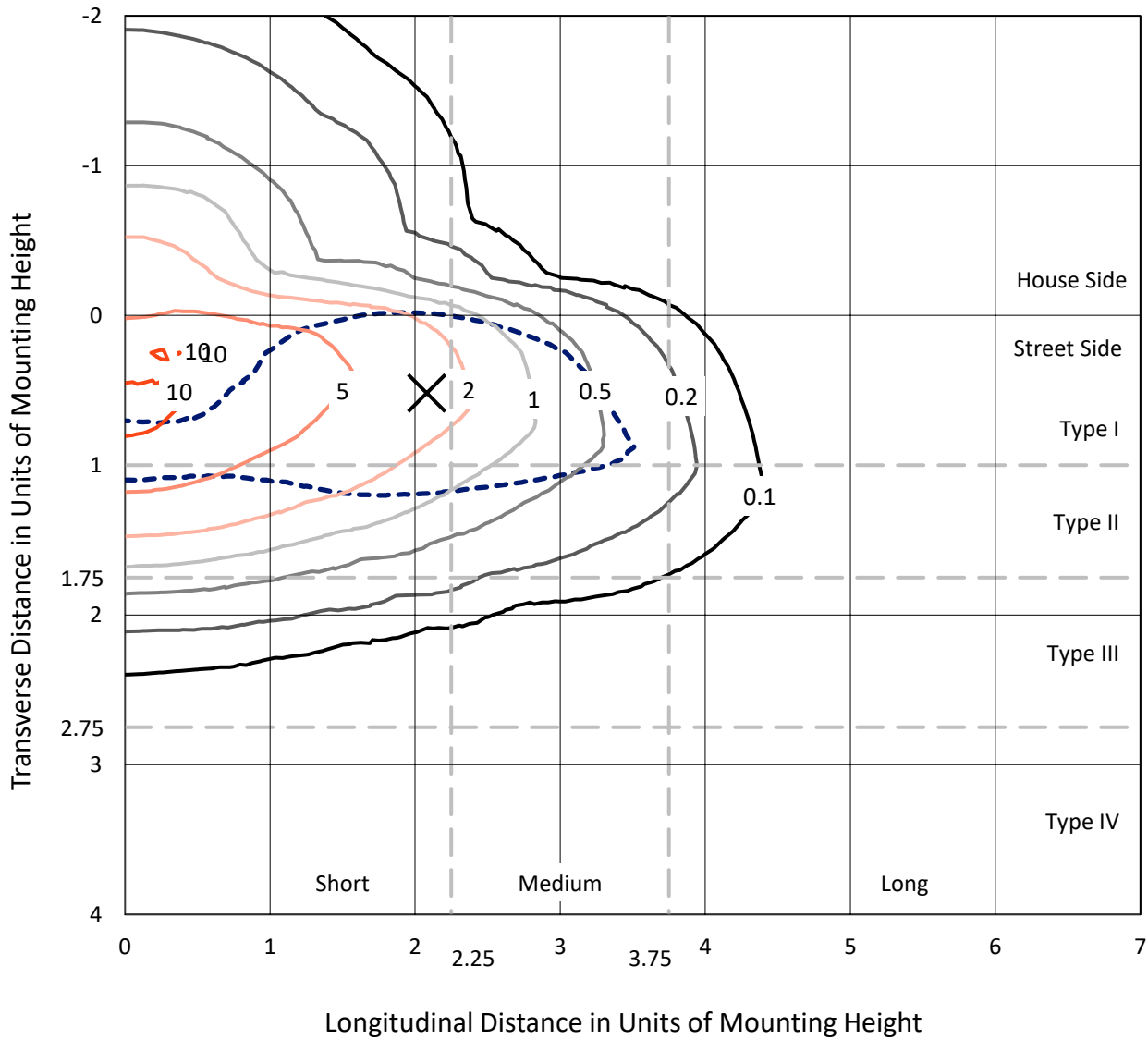
Input Watts (W): 189.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

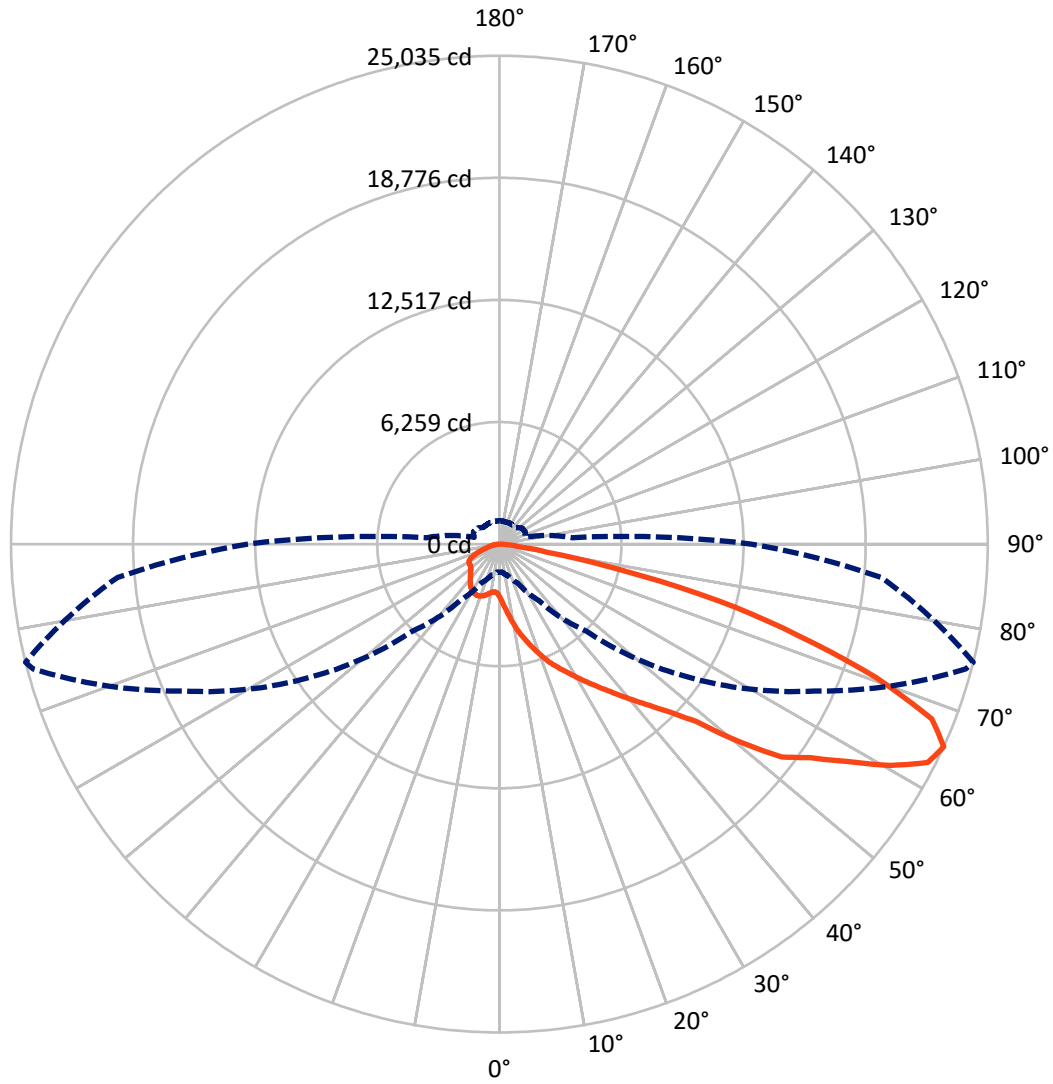
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.2 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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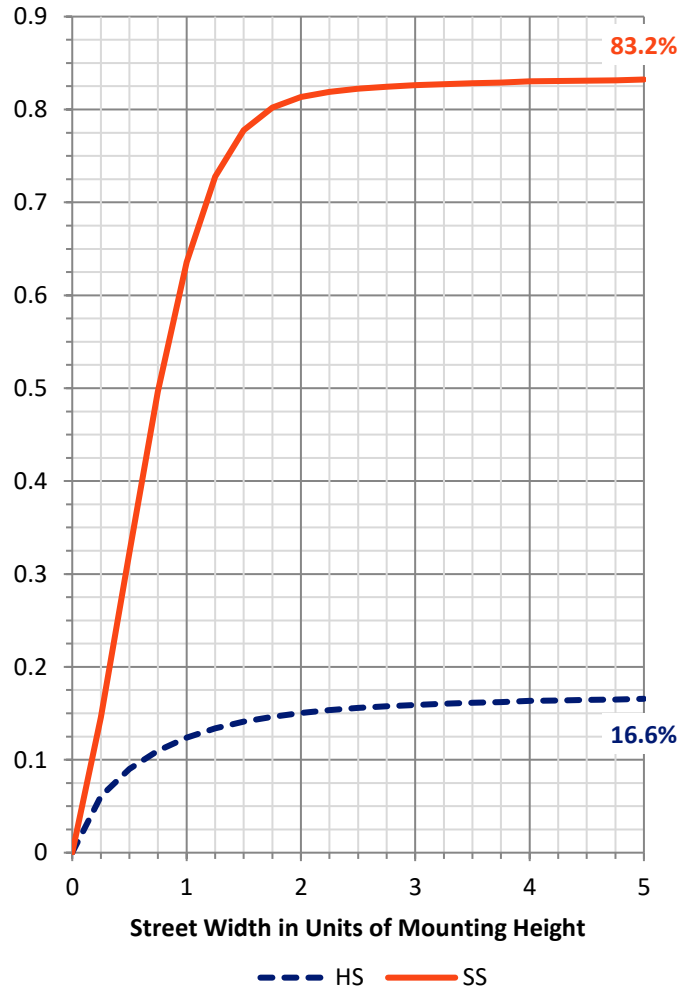
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4773.3	0.0	4773.3
	% Fixture	16.7	0.0	16.7
Street Side	Lumens	23783.3	0.0	23783.3
	% Fixture	83.3	0.0	83.3
Total	Lumens	28556.6	0.0	28556.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	321.3	1.1
10°-20°	1223.7	4.3
20°-30°	2384.8	8.4
30°-40°	3988.5	14.0
40°-50°	5710.7	20.0
50°-60°	6760.7	23.7
60°-70°	5621.6	19.7
70°-80°	2300.5	8.1
80°-90°	244.9	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°	28556.6	100.0
0°-180°	28556.6	100.0

Coefficient of Utilization



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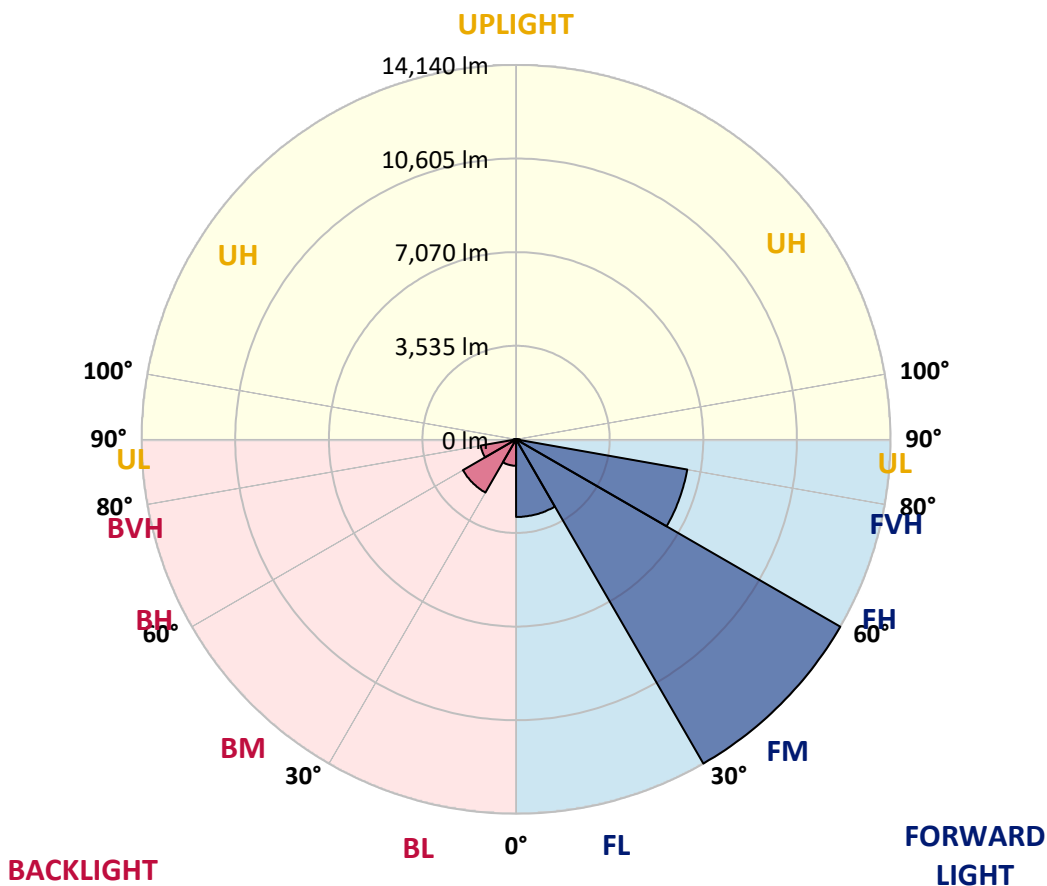
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2931.2	10.3			
FM (30°-60°)	14140.1	49.5			
FH (60°-80°)	6565.9	23.0			G3/7500
FVH (80°-90°)	146.1	0.5			G2/225
BL (0°-30°)	998.6	3.5	B2/1000		
BM (30°-60°)	2319.7	8.1	B2/2500		
BH (60°-80°)	1356.1	4.7	B3/2500		G3/2500
BVH (80°-90°)	98.8	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°	2704.2	2704.2	2704.2	2704.2	2704.2	2704.2	2704.2	2704.2	2704.2	2704.2	2704.2
2.5°	3790.3	3804.4	3758.2	3742.1	3633.7	3487.2	3364.7	3180.0	3009.4	2983.3	2830.7
5°	4814.2	4753.9	4701.7	4667.6	4517.0	4350.4	4091.4	3744.1	3380.8	3336.6	3007.3
7.5°	5422.5	5412.4	5348.2	5328.1	5211.7	5045.0	4778.0	4346.4	3818.4	3746.1	3246.2
10°	5910.3	5904.3	5872.2	5890.2	5783.8	5621.2	5362.2	4916.6	4298.2	4225.9	3513.3
12.5°	6335.9	6345.9	6339.9	6406.2	6352.0	6225.5	5956.5	5466.6	4778.0	4699.7	3838.5
15°	6647.1	6655.1	6685.2	6829.8	6859.9	6833.8	6560.8	6006.7	5251.8	5139.4	4173.7
17.5°	6735.4	6751.5	6823.7	7056.6	7219.2	7327.7	7124.9	6556.7	5717.6	5595.1	4515.0
20°	6853.9	6871.9	6944.2	7187.1	7426.0	7673.0	7636.8	7114.8	6187.3	6087.0	4860.3
22.5°	7401.9	7387.9	7355.8	7472.2	7642.8	7950.0	8040.3	7650.9	6673.2	6576.8	5241.8
25°	8457.9	8431.8	8227.0	8120.6	8064.4	8251.1	8411.7	8138.7	7147.0	7002.4	5597.1
27.5°	9622.3	9608.3	9347.3	9094.3	8749.0	8668.7	8763.1	8564.3	7606.7	7460.2	5906.3
30°	10724.5	10682.3	10409.3	10092.1	9630.3	9285.0	9146.5	8981.9	8110.6	7958.0	6267.7
32.5°	11710.2	11656.0	11334.8	10983.4	10499.6	10092.1	9678.5	9425.6	8680.8	8504.1	6637.0
35°	12519.2	12465.0	12135.8	11762.4	11230.4	10929.2	10363.1	9907.4	9260.9	9082.3	7072.7
37.5°	13145.6	13095.4	12752.1	12384.7	11921.0	11682.1	11190.2	10449.4	9929.5	9742.8	7534.4
40°	13496.9	13460.8	13185.8	12894.7	12505.2	12298.4	12077.6	11134.0	10678.3	10491.6	8078.5
42.5°	13603.3	13579.2	13386.5	13235.9	12973.0	12816.4	12942.8	11939.1	11477.3	11314.7	8690.8
45°	13336.3	13336.3	13280.1	13356.4	13368.4	13366.4	13810.1	12848.5	12459.0	12280.3	9554.1
47.5°	12653.7	12697.9	12780.2	13155.6	13551.1	13882.4	14823.9	14061.1	13721.8	13575.2	10776.7
50°	11405.0	11525.5	11806.6	12539.3	13380.5	14223.7	15783.6	15853.8	16177.0	15918.1	12575.5
52.5°	9576.1	9558.1	10274.8	11318.7	12601.6	14237.7	16311.6	17435.8	18305.1	18126.4	13912.5
55°	7610.7	7580.6	8249.1	9688.6	11407.0	13699.7	16628.7	18160.5	19485.5	19324.9	15115.0
57.5°	5828.0	5789.8	6384.1	7683.0	9720.7	12557.4	16568.5	19023.8	21109.7	21027.3	16749.2
60°	4011.1	3965.0	4521.1	5657.3	7725.2	10810.8	15902.0	19467.5	23010.8	23038.9	18497.8
62.5°	2409.1	2383.0	2786.5	3667.8	5557.0	8646.6	14342.1	19198.4	24524.5	24651.0	19622.0
65°	1453.5	1435.4	1672.3	2188.3	3525.3	6309.8	11937.0	17823.3	24743.4	25034.5	19648.1
67.5°	1058.0	1060.0	1128.3	1333.0	2055.8	4075.4	8957.8	15358.0	23603.1	23904.2	18409.5
70°	919.5	923.5	959.6	1005.8	1242.7	2332.8	5824.0	12123.7	20232.3	20465.2	15440.3
72.5°	817.1	817.1	841.2	865.3	971.7	1421.4	3119.8	8474.0	15968.3	16030.5	11784.5
75°	718.7	712.7	724.7	736.8	843.2	993.7	1517.7	5904.3	11794.5	11650.0	7616.7
77.5°	572.2	566.1	568.1	580.2	676.6	710.7	768.9	3687.9	6647.1	6273.7	3364.7
80°	407.5	403.5	425.6	455.7	499.9	435.6	481.8	1784.7	2635.9	2453.3	1304.9
82.5°	242.9	250.9	285.1	309.2	345.3	273.0	311.2	596.2	933.5	909.4	530.0
85°	34.1	36.1	102.4	118.4	148.6	106.4	164.6	269.0	373.4	399.5	186.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	14.1	48.2	106.4	108.4	46.2
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°	2704.2	2704.2	2704.2	2704.2	2704.2	2704.2	2704.2	2704.2	2704.2	2704.2	2704.2
2.5°	2752.4	2658.0	2523.5	2411.1	2316.7	2240.5	2176.2	2128.0	2114.0	2093.9	2093.9
5°	2852.8	2682.1	2441.2	2270.6	2172.2	2114.0	2073.8	2053.7	2043.7	2031.7	2025.6
7.5°	2991.3	2752.4	2427.2	2254.5	2178.2	2142.1	2116.0	2103.9	2095.9	2083.9	2083.9
10°	3182.0	2856.8	2471.3	2310.7	2250.5	2214.4	2184.2	2164.2	2146.1	2128.0	2124.0
12.5°	3388.8	2993.3	2551.6	2387.0	2322.8	2278.6	2236.4	2206.3	2184.2	2162.2	2156.1
15°	3617.7	3133.8	2638.0	2461.3	2381.0	2320.8	2270.6	2224.4	2194.3	2162.2	2158.1
17.5°	3842.5	3276.4	2710.2	2511.5	2409.1	2334.8	2262.5	2202.3	2164.2	2128.0	2118.0
20°	4111.5	3418.9	2760.4	2525.5	2403.1	2304.7	2218.4	2142.1	2099.9	2057.8	2051.7
22.5°	4358.4	3551.4	2784.5	2505.5	2356.9	2240.5	2140.1	2057.8	2011.6	1969.4	1961.4
25°	4597.3	3667.8	2774.5	2457.3	2286.6	2152.1	2047.7	1965.4	1921.2	1877.1	1865.0
27.5°	4828.2	3746.1	2734.3	2383.0	2198.3	2053.7	1953.4	1879.1	1840.9	1802.8	1786.7
30°	5055.1	3818.4	2672.1	2286.6	2085.9	1951.4	1869.1	1816.9	1778.7	1738.6	1726.5
32.5°	5283.9	3870.6	2577.7	2174.2	1971.4	1861.0	1810.8	1772.7	1732.5	1692.4	1680.3
35°	5514.8	3892.7	2463.3	2045.7	1875.1	1802.8	1784.7	1740.6	1686.4	1638.2	1622.1
37.5°	5789.8	3912.8	2320.8	1919.2	1790.8	1774.7	1770.7	1704.4	1640.2	1573.9	1555.9
40°	6121.1	3938.9	2174.2	1804.8	1722.5	1764.7	1748.6	1658.3	1529.8	1465.5	1445.5
42.5°	6526.6	3987.0	2021.6	1700.4	1672.3	1726.5	1708.4	1545.8	1459.5	1423.4	1413.3
45°	7122.9	4163.7	1869.1	1618.1	1634.2	1672.3	1644.2	1479.6	1445.5	1421.4	1409.3
47.5°	8184.9	4434.7	1736.6	1555.9	1604.1	1624.1	1515.7	1461.5	1435.4	1403.3	1389.2
50°	9289.1	4553.2	1630.2	1517.7	1569.9	1580.0	1445.5	1437.4	1419.4	1385.2	1371.2
52.5°	10035.9	4537.1	1565.9	1503.7	1541.8	1503.7	1413.3	1411.3	1399.3	1359.1	1343.1
55°	10879.1	4565.2	1537.8	1507.7	1529.8	1375.2	1373.2	1379.2	1373.2	1329.0	1321.0
57.5°	12017.3	4651.6	1523.7	1521.7	1521.7	1313.0	1335.0	1343.1	1331.0	1310.9	1304.9
60°	13111.5	4657.6	1497.7	1537.8	1515.7	1274.8	1290.9	1298.9	1284.8	1280.8	1278.8
62.5°	13523.0	4368.5	1439.4	1525.8	1491.6	1232.7	1244.7	1248.7	1234.7	1244.7	1242.7
65°	12910.7	3754.2	1343.1	1467.5	1417.3	1194.5	1186.5	1196.5	1172.4	1198.5	1200.5
67.5°	11463.3	2983.3	1196.5	1357.1	1313.0	1152.3	1136.3	1136.3	1096.1	1136.3	1134.3
70°	9242.9	2108.0	981.7	1180.5	1198.5	1102.2	1094.1	1048.0	983.7	1043.9	1037.9
72.5°	7006.4	1513.7	772.9	933.5	1031.9	1031.9	1033.9	955.6	881.3	909.4	885.3
75°	4438.7	1066.0	618.3	714.7	809.1	905.4	951.6	807.0	740.8	728.7	716.7
77.5°	1999.5	700.6	481.8	548.1	574.2	714.7	869.3	694.6	604.3	578.2	570.2
80°	837.2	435.6	343.3	387.5	353.3	600.3	766.9	540.0	443.7	407.5	381.4
82.5°	367.4	259.0	218.8	208.8	220.8	445.7	572.2	359.4	277.0	375.4	379.4
85°	154.6	136.5	112.4	102.4	90.3	170.6	269.0	140.5	172.7	98.4	80.3
87.5°	36.1	40.2	30.1	20.1	12.0	2.0	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)