

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: P643758

Luminaire Tested: GWS-SA6F-750-U-SL4-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P643758
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-35)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA6F-750-U-SL4-W
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS
Light Source: (96) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 48894.1 lumens
Efficiency: N/A
Efficacy: 131.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

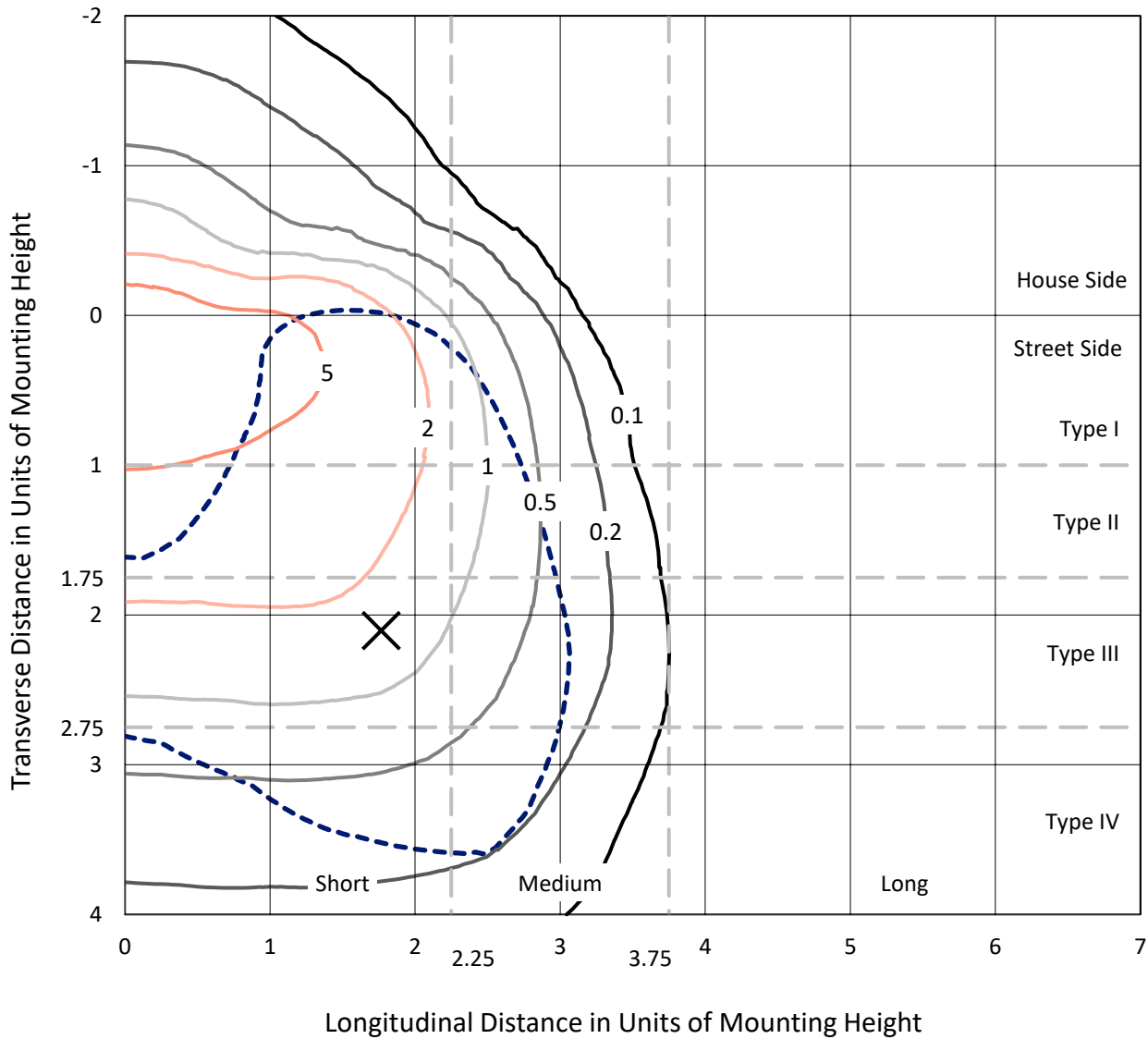
Input Watts (W): 372.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

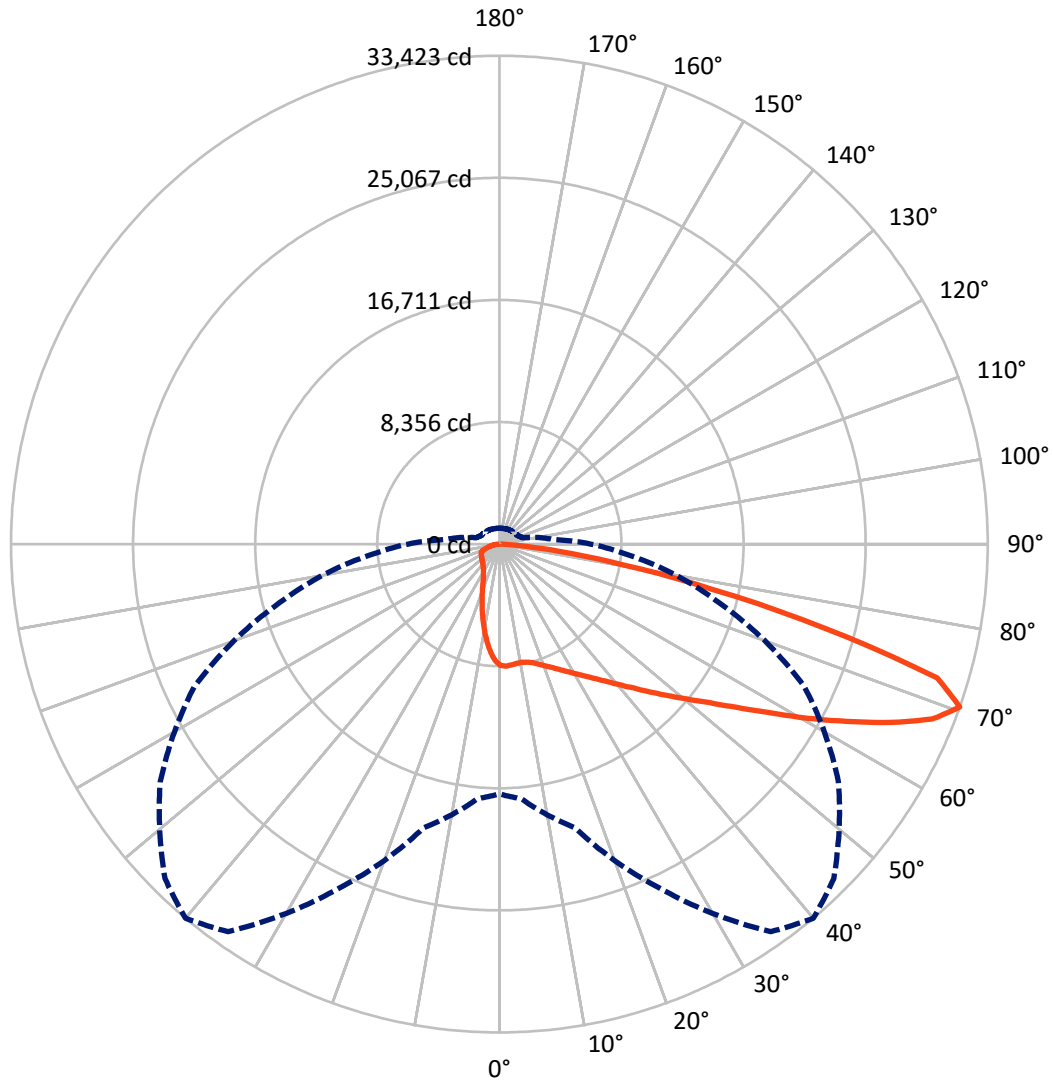
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7530.9	0.0	7530.9
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	41363.2	0.0	41363.2
	% Fixture	84.6	0.0	84.6
Total	Lumens	48894.1	0.0	48894.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	733.5	1.5
10°-20°	1911.9	3.9
20°-30°	3002.0	6.1
30°-40°	4513.6	9.2
40°-50°	6966.8	14.2
50°-60°	10346.3	21.2
60°-70°	13041.3	26.7
70°-80°	7541.7	15.4
80°-90°	837.0	1.7
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°	48894.1	100.0
0°-180°	48894.1	100.0

Coefficient of Utilization



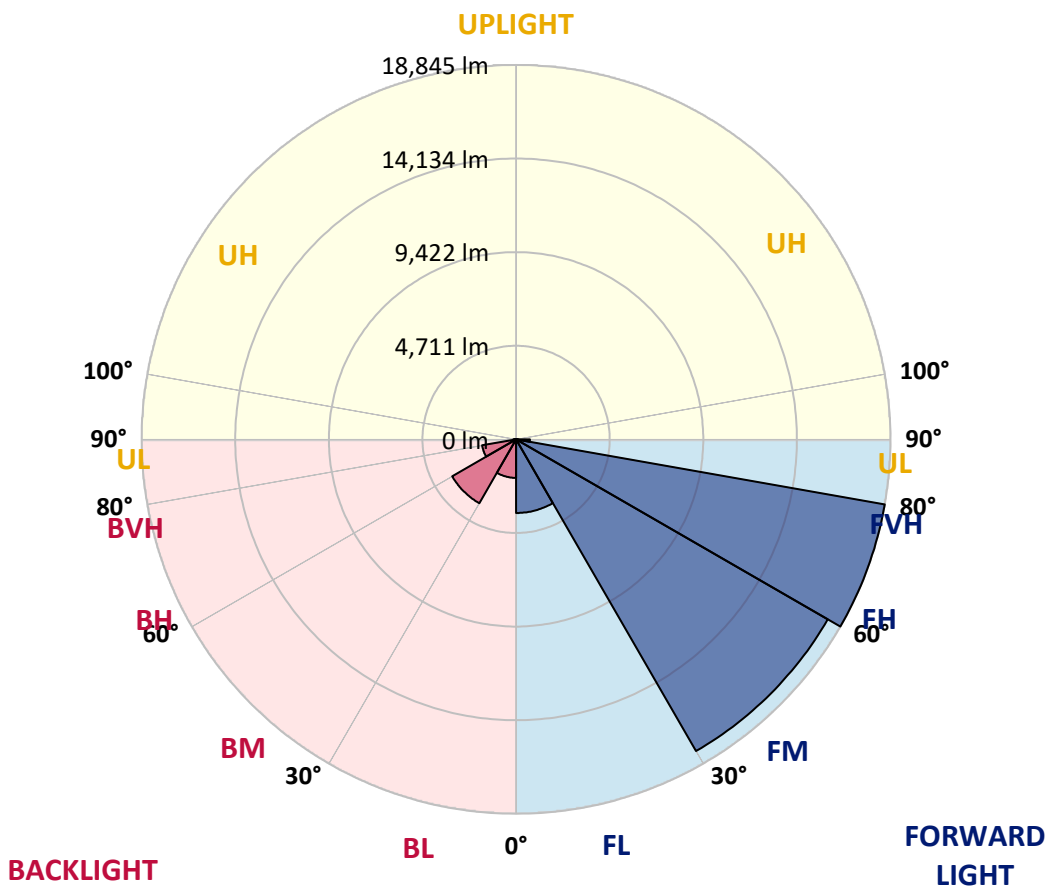
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3706.5	7.6			
FM (30°-60°)	18114.6	37.0			
FH (60°-80°)	18844.9	38.5			G5
FVH (80°-90°)	697.1	1.4			G4/750
BL (0°-30°)	1940.8	4.0	B3/2500		
BM (30°-60°)	3712.1	7.6	B3/5000		
BH (60°-80°)	1738.1	3.6	B3/2500		G3/2500
BVH (80°-90°)	139.9	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	8302.8	8302.8	8302.8	8302.8	8302.8	8302.8	8302.8	8302.8	8302.8	8302.8	8302.8
2.5°	8353.9	8368.5	8379.4	8394.0	8386.7	8364.8	8383.1	8383.1	8342.9	8299.1	8259.0
5°	8364.8	8383.1	8379.4	8375.8	8346.6	8310.1	8310.1	8288.2	8218.8	8149.5	8083.8
7.5°	8342.9	8339.3	8335.6	8324.7	8291.8	8251.7	8244.4	8200.6	8109.4	8014.5	7919.6
10°	8244.4	8240.7	8251.7	8277.2	8269.9	8233.4	8233.4	8193.3	8087.5	7970.7	7846.6
12.5°	8164.1	8164.1	8207.9	8277.2	8302.8	8288.2	8291.8	8262.6	8142.2	8003.5	7857.5
15°	8175.0	8178.7	8273.6	8386.7	8434.2	8423.2	8426.9	8394.0	8259.0	8120.3	7923.2
17.5°	8248.0	8266.3	8430.5	8587.4	8649.5	8634.9	8609.3	8554.6	8401.3	8244.4	8003.5
20°	8401.3	8430.5	8642.2	8839.3	8912.3	8879.4	8835.6	8726.1	8558.2	8386.7	8091.1
22.5°	8704.2	8722.5	8956.1	9149.5	9207.9	9167.7	9080.1	8923.2	8729.8	8550.9	8196.9
25°	9131.2	9153.1	9375.8	9554.6	9540.0	9492.5	9372.1	9178.7	8948.8	8759.0	8350.2
27.5°	9638.5	9675.0	9894.0	10036.3	9941.4	9872.1	9737.1	9503.5	9244.4	9072.8	8583.8
30°	10193.3	10207.9	10394.0	10536.3	10390.3	10295.4	10131.2	9879.4	9645.8	9518.1	8934.2
32.5°	10729.7	10744.3	10904.9	10985.2	10831.9	10762.6	10620.3	10353.8	10189.6	10120.3	9456.0
35°	11295.4	11291.8	11423.2	11492.5	11335.6	11306.4	11160.4	10956.0	10926.8	11018.1	10218.8
37.5°	11861.1	11828.3	11897.6	11988.8	11901.3	11930.5	11835.6	11766.2	11879.4	12116.6	11233.4
40°	12313.7	12313.7	12386.7	12499.8	12529.0	12656.7	12602.0	12693.2	13058.2	13623.9	12488.8
42.5°	12715.1	12718.8	12872.0	13047.2	13258.9	13456.0	13499.8	13737.0	14492.5	15379.3	14065.5
45°	13134.8	13138.5	13346.5	13602.0	14050.9	14426.8	14514.4	15047.2	16127.5	17207.7	15777.1
47.5°	13620.2	13580.1	13868.4	14295.4	14934.1	15474.2	15700.5	16455.9	17820.9	19149.3	17390.2
50°	14167.6	14083.7	14404.9	15142.1	15930.4	16671.3	17050.8	17915.8	19638.4	20941.3	18908.4
52.5°	14784.4	14737.0	15072.7	15970.5	17174.9	18028.9	18543.5	19678.5	21404.7	22725.9	20112.8
55°	15550.8	15437.7	15923.1	17065.4	18634.7	19722.3	20331.8	21423.0	23335.4	24346.3	21032.5
57.5°	16390.2	16266.1	16915.8	18434.0	20532.5	21725.9	22488.7	23386.5	25152.9	25587.2	21572.6
60°	17295.3	17255.2	18025.2	20039.8	22795.2	24182.1	24733.2	25547.0	26733.1	26306.1	21437.6
62.5°	18123.8	18109.2	19229.6	21780.7	25193.0	26718.5	27156.5	27371.8	27871.8	26258.7	20364.6
65°	18996.0	19120.1	20634.7	23798.9	27941.1	29437.5	29619.9	29072.5	28255.0	25014.2	18167.6
67.5°	19105.5	19346.4	21517.9	25689.3	30546.9	31959.3	31813.3	29718.5	27123.6	21550.7	14240.6
70°	17087.3	17507.0	20109.1	25977.7	32382.7	33422.8	32368.1	28328.0	23017.9	15612.9	8956.1
72.5°	14277.1	14638.4	16937.7	22152.9	30014.1	31338.9	29911.9	23977.7	16266.1	8956.1	4562.0
75°	11113.0	11532.7	13653.1	17609.2	22470.4	22999.6	22284.3	16722.3	8941.5	3693.4	2073.0
77.5°	6780.9	7083.8	8733.4	11930.5	15722.4	14930.4	12653.1	9375.8	3923.3	1770.0	1281.0
80°	2999.9	3186.1	4302.8	6408.7	9083.8	8587.4	6770.0	4003.6	2145.9	1124.1	894.1
82.5°	1609.5	1729.9	2120.4	2536.5	3989.0	4171.5	3383.2	2306.5	1153.3	642.3	510.9
85°	708.0	777.4	963.5	919.7	1310.2	1288.3	1299.2	1583.9	551.1	295.6	332.1
87.5°	0.0	0.0	0.0	0.0	3.6	3.6	40.1	211.7	54.7	87.6	76.6
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°	8302.8	8302.8	8302.8	8302.8	8302.8	8302.8	8302.8	8302.8	8302.8	8302.8	8302.8
2.5°	8215.2	8149.5	8131.2	8109.4	8069.2	7999.9	7948.8	7890.4	7864.8	7835.6	7839.3
5°	8010.8	7930.5	7853.9	7755.3	7631.3	7492.6	7397.7	7288.2	7229.8	7175.1	7189.7
7.5°	7835.6	7711.5	7554.6	7346.6	7124.0	6875.8	6675.1	6518.1	6412.3	6339.3	6375.8
10°	7726.1	7580.2	7306.4	6967.0	6591.1	6211.6	5923.3	5653.2	5485.3	5353.9	5346.6
12.5°	7704.2	7514.5	7116.7	6624.0	6080.2	5572.9	5149.5	4784.6	4562.0	4397.7	4459.8
15°	7726.1	7485.3	6952.4	6306.5	5620.3	4934.2	4408.7	3989.0	3722.6	3572.9	3562.0
17.5°	7751.7	7456.1	6766.3	5963.4	5138.6	4353.9	3744.5	3299.2	3025.5	2875.9	2879.5
20°	7773.6	7412.3	6547.3	5587.5	4649.6	3813.8	3182.4	2759.1	2514.6	2405.1	2423.3
22.5°	7810.1	7368.5	6313.8	5186.0	4149.6	3291.9	2737.2	2394.1	2248.1	2175.1	2178.8
25°	7879.4	7342.9	6072.9	4748.1	3656.9	2875.9	2430.6	2200.7	2109.5	2065.7	2062.0
27.5°	8021.8	7364.8	5821.1	4324.7	3211.6	2558.4	2233.5	2083.9	2021.9	1992.7	1989.0
30°	8259.0	7452.4	5602.1	3894.1	2828.4	2310.2	2098.5	2007.3	1970.8	1945.2	1941.6
32.5°	8620.3	7616.7	5364.9	3492.6	2518.2	2127.7	1992.7	1945.2	1919.7	1905.1	1905.1
35°	9167.7	7915.9	5131.3	3142.3	2277.3	1985.4	1908.7	1890.5	1868.6	1861.3	1868.6
37.5°	9956.0	8394.0	4919.6	2835.7	2105.8	1875.9	1817.5	1824.8	1806.5	1817.5	1828.4
40°	10956.0	9032.7	4740.8	2583.9	1978.1	1795.6	1737.2	1762.7	1751.8	1762.7	1781.0
42.5°	12222.4	9824.7	4605.8	2386.8	1886.8	1729.9	1675.2	1700.7	1693.4	1708.0	1726.2
45°	13634.8	10868.4	4543.7	2248.1	1821.1	1682.5	1624.1	1642.3	1635.0	1646.0	1664.2
47.5°	14988.8	11817.3	4598.5	2167.8	1766.4	1642.3	1580.3	1587.6	1583.9	1580.3	1591.2
50°	16156.7	12572.8	4755.4	2142.3	1729.9	1602.2	1543.8	1547.4	1536.5	1514.6	1521.9
52.5°	17109.2	13178.6	4850.3	2142.3	1711.6	1558.4	1503.6	1507.3	1485.4	1456.2	1459.8
55°	17736.9	13423.1	4773.6	2138.6	1704.4	1521.9	1463.5	1467.1	1445.2	1408.7	1412.4
57.5°	17915.8	13185.9	4452.5	2098.5	1697.1	1492.7	1423.3	1430.6	1416.0	1375.9	1375.9
60°	17415.8	12317.3	3864.9	2007.3	1678.8	1474.4	1394.1	1405.1	1397.8	1357.6	1357.6
62.5°	16105.6	10773.5	3164.2	1868.6	1627.7	1452.5	1368.6	1390.5	1408.7	1386.8	1383.2
65°	13653.1	8631.2	2572.9	1715.3	1562.0	1416.0	1332.1	1386.8	1427.0	1456.2	1456.2
67.5°	10244.4	6178.7	2098.5	1554.7	1463.5	1343.0	1284.6	1335.7	1364.9	1383.2	1394.1
70°	6244.4	3635.0	1653.3	1368.6	1321.1	1233.6	1189.8	1138.7	1098.5	1091.2	1094.9
72.5°	3054.7	2080.3	1343.0	1164.2	1127.7	1047.4	948.9	927.0	908.7	897.8	894.1
75°	1682.5	1448.9	1109.5	967.1	901.4	802.9	781.0	744.5	737.2	722.6	726.3
77.5°	1189.8	1142.3	916.0	784.7	686.1	635.0	646.0	620.4	620.4	609.5	605.8
80°	894.1	897.8	704.4	573.0	507.3	489.0	500.0	500.0	492.7	489.0	485.4
82.5°	565.7	638.7	474.4	368.6	361.3	365.0	361.3	357.7	365.0	354.0	350.4
85°	390.5	459.8	288.3	219.0	219.0	215.3	222.6	219.0	226.3	215.3	215.3
87.5°	87.6	204.4	105.8	65.7	69.3	65.7	69.3	73.0	80.3	83.9	83.9
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)