

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: P643648

Luminaire Tested: GWS-SA6F-735-U-SL4-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P643648
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-735-U-SL4-W
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS
Light Source: (96) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 47143.7 lumens
Efficiency: N/A
Efficacy: 126.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

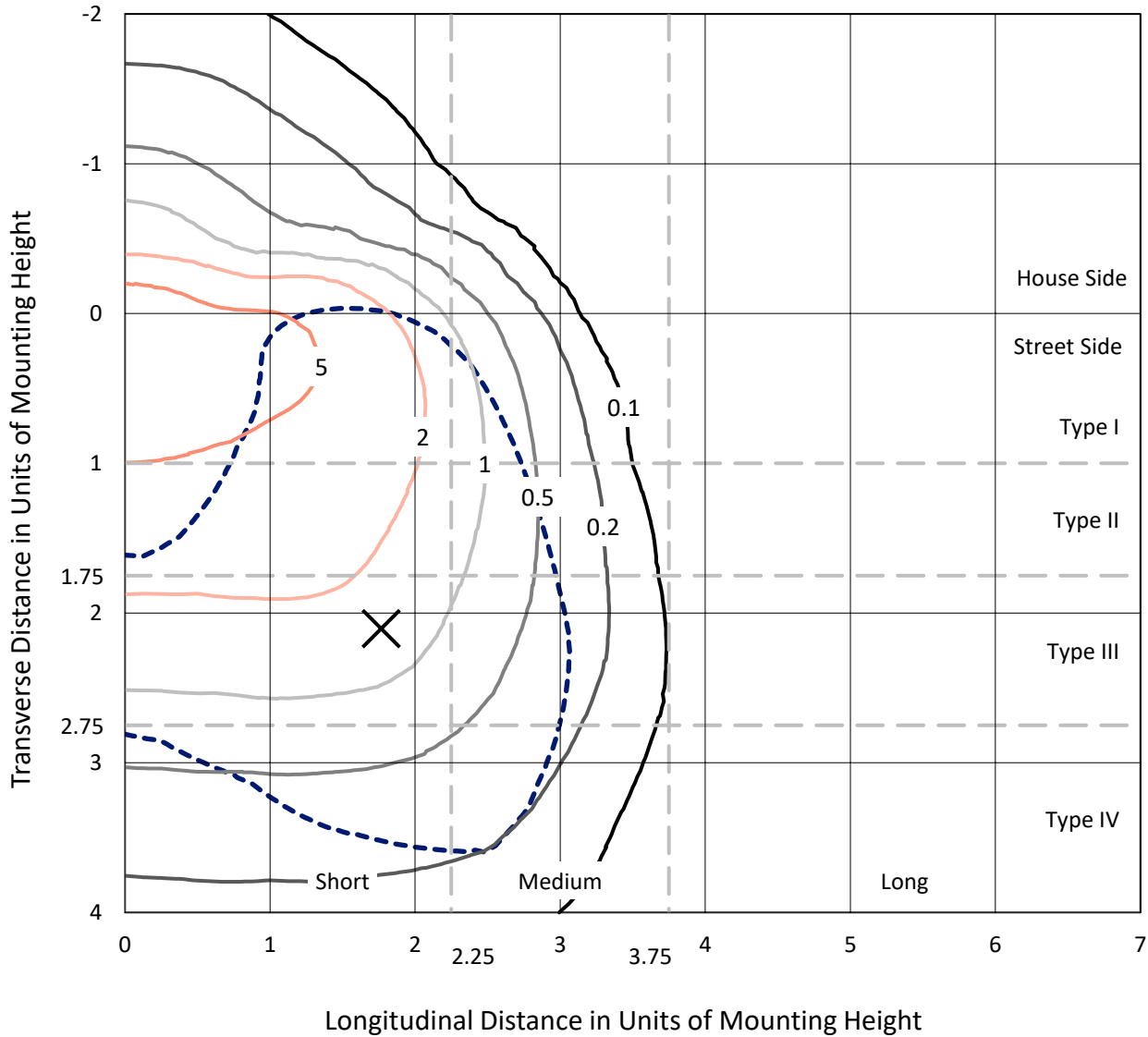
Input Watts (W): 372.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P643648
 CATALOG NUMBER: GWS-SA6F-735-U-SL4-W

Iso-Footcandle Lines of Horizontal Illumination

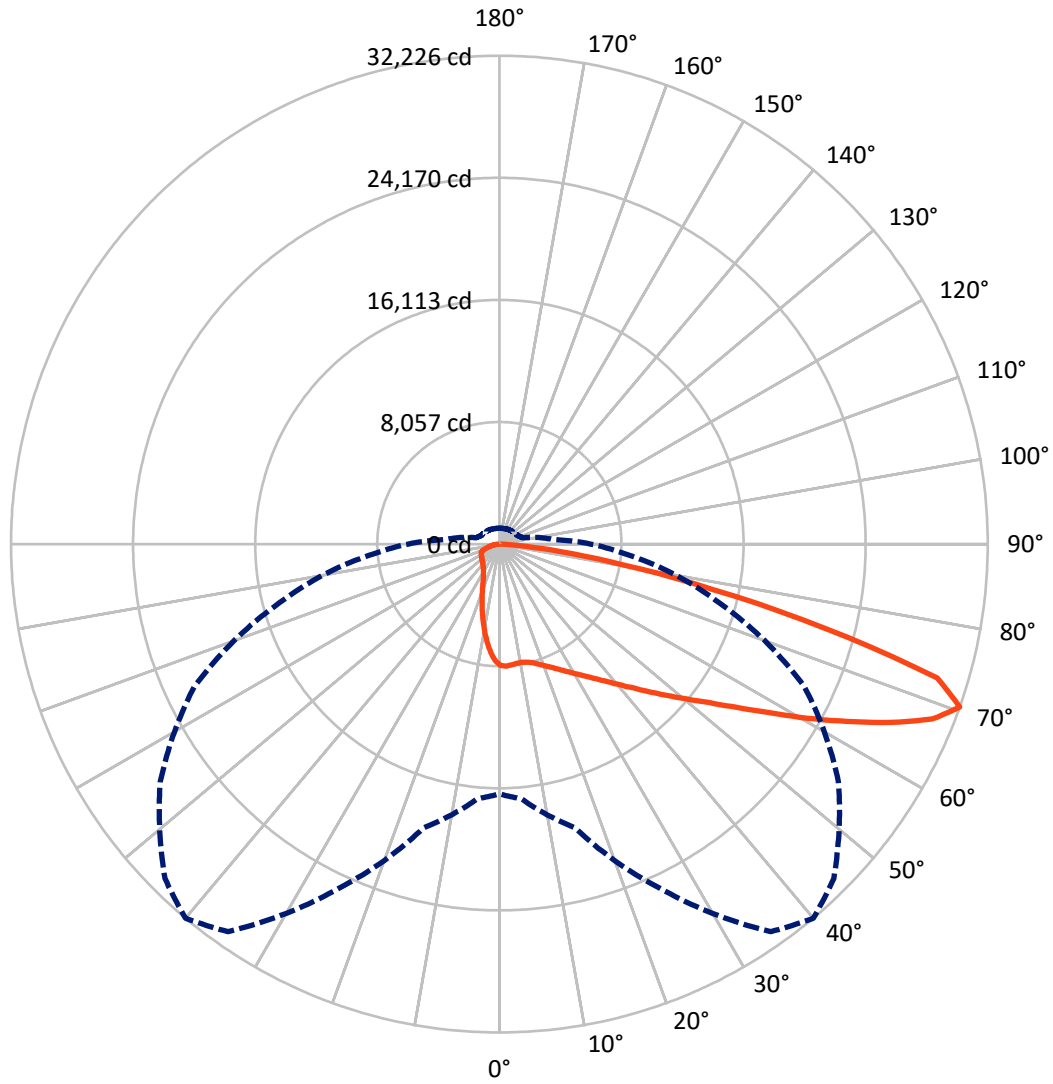
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.9 fc
 Type IV - Short - N/A

REPORT NUMBER: P643648
CATALOG NUMBER: GWS-SA6F-735-U-SL4-W

Luminous Intensity Polar Plot



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



REPORT NUMBER: P643648

CATALOG NUMBER: GWS-SA6F-735-U-SL4-W

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7261.3	0.0	7261.3
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	39882.4	0.0	39882.4
	% Fixture	84.6	0.0	84.6
Total	Lumens	47143.7	0.0	47143.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	707.2	1.5
10°-20°	1843.4	3.9
20°-30°	2894.5	6.1
30°-40°	4352.0	9.2
40°-50°	6717.4	14.2
50°-60°	9975.9	21.2
60°-70°	12574.5	26.7
70°-80°	7271.7	15.4
80°-90°	807.0	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°	47143.7	100.0
0°-180°	47143.7	100.0

Coefficient of Utilization



REPORT NUMBER: P643648

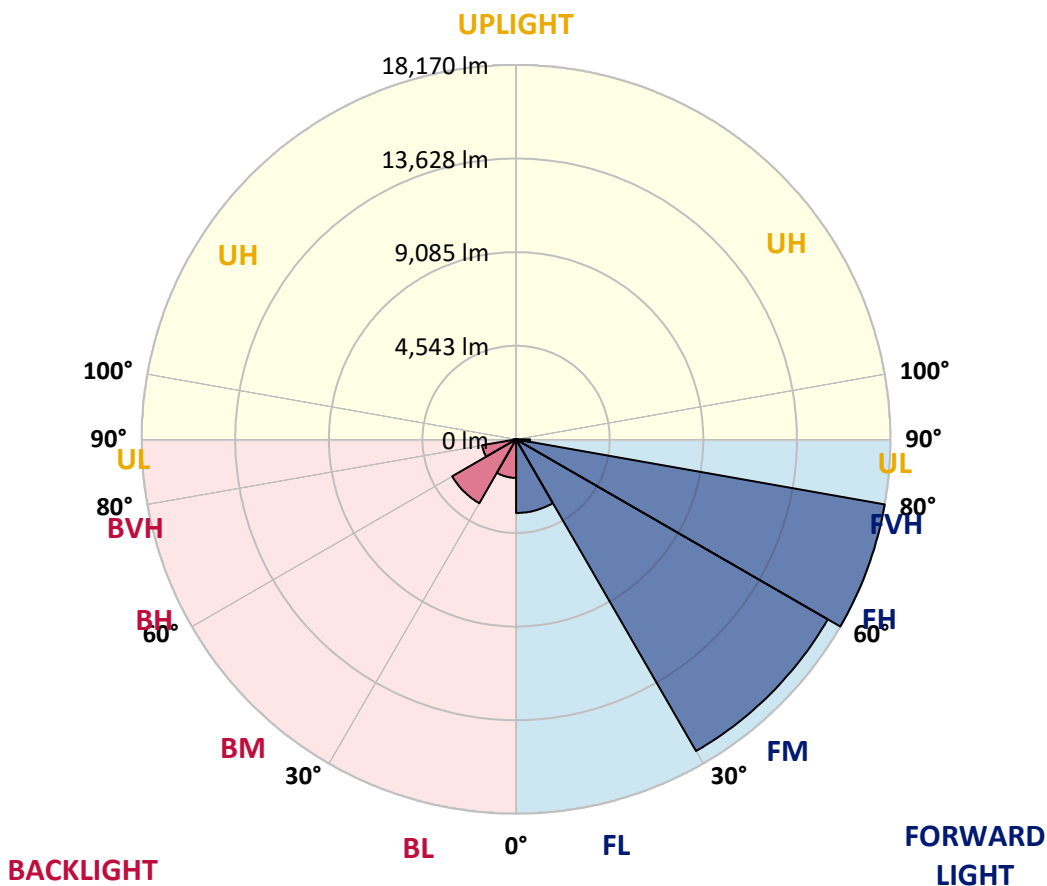
CATALOG NUMBER: GWS-SA6F-735-U-SL4-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3573.8	7.6			
FM (30°-60°)	17466.1	37.0			
FH (60°-80°)	18170.3	38.5			G5
FVH (80°-90°)	672.1	1.4			G4/750
BL (0°-30°)	1871.3	4.0	B3/2500		
BM (30°-60°)	3579.2	7.6	B3/5000		
BH (60°-80°)	1675.9	3.6	B3/2500		G3/2500
BVH (80°-90°)	134.9	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





REPORT NUMBER: P643648

CATALOG NUMBER: GWS-SA6F-735-U-SL4-W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	8005.5	8005.5	8005.5	8005.5	8005.5	8005.5	8005.5	8005.5	8005.5	8005.5	8005.5
2.5°	8054.8	8068.9	8079.4	8093.5	8086.5	8065.4	8083.0	8083.0	8044.2	8002.0	7963.3
5°	8065.4	8083.0	8079.4	8075.9	8047.8	8012.6	8012.6	7991.5	7924.6	7857.7	7794.4
7.5°	8044.2	8040.7	8037.2	8026.7	7995.0	7956.3	7949.2	7907.0	7819.0	7727.5	7636.1
10°	7949.2	7945.7	7956.3	7980.9	7973.9	7938.7	7938.7	7900.0	7797.9	7685.3	7565.7
12.5°	7871.8	7871.8	7914.0	7980.9	8005.5	7991.5	7995.0	7966.8	7850.7	7717.0	7576.2
15°	7882.4	7885.9	7977.4	8086.5	8132.2	8121.7	8125.2	8093.5	7963.3	7829.6	7639.6
17.5°	7952.8	7970.4	8128.7	8280.0	8339.8	8325.8	8301.1	8248.3	8100.6	7949.2	7717.0
20°	8100.6	8128.7	8332.8	8522.8	8593.2	8561.5	8519.3	8413.7	8251.9	8086.5	7801.4
22.5°	8392.6	8410.2	8635.4	8821.9	8878.2	8839.5	8755.1	8603.8	8417.3	8244.8	7903.5
25°	8804.3	8825.4	9040.1	9212.5	9198.5	9152.7	9036.6	8850.1	8628.4	8445.4	8051.3
27.5°	9293.5	9328.7	9539.8	9677.0	9585.5	9518.7	9388.5	9163.3	8913.4	8748.0	8276.5
30°	9828.3	9842.4	10021.9	10159.1	10018.4	9926.9	9768.5	9525.7	9300.5	9177.3	8614.3
32.5°	10345.6	10359.7	10514.5	10591.9	10444.2	10377.3	10240.1	9983.2	9824.8	9758.0	9117.5
35°	10891.1	10887.5	11014.2	11081.1	10929.8	10901.6	10760.9	10563.8	10535.6	10623.6	9853.0
37.5°	11436.5	11404.8	11471.7	11559.6	11475.2	11503.3	11411.9	11345.0	11454.1	11682.8	10831.2
40°	11872.8	11872.8	11943.2	12052.3	12080.4	12203.6	12150.8	12238.8	12590.7	13136.1	12041.7
42.5°	12259.9	12263.4	12411.2	12580.1	12784.2	12974.3	13016.5	13245.2	13973.6	14828.7	13561.9
45°	12664.6	12668.1	12868.7	13115.0	13547.8	13910.3	13994.7	14508.5	15550.1	16591.7	15212.3
47.5°	13132.6	13093.9	13371.9	13783.6	14399.4	14920.2	15138.4	15866.8	17182.9	18463.8	16767.6
50°	13660.4	13579.5	13889.2	14600.0	15360.1	16074.4	16440.4	17274.4	18935.3	20191.6	18231.5
52.5°	14255.1	14209.4	14533.1	15398.8	16560.0	17383.5	17879.6	18974.0	20638.5	21912.3	19392.8
55°	14994.1	14885.0	15353.0	16454.5	17967.6	19016.2	19603.9	20656.1	22500.0	23474.7	20279.5
57.5°	15803.5	15683.8	16310.2	17774.1	19797.4	20948.1	21683.6	22549.2	24252.4	24671.1	20800.3
60°	16676.2	16637.4	17379.9	19322.4	21979.2	23316.4	23847.7	24632.4	25776.1	25364.4	20670.1
62.5°	17475.0	17460.9	18541.2	21000.9	24291.1	25762.0	26184.3	26391.9	26874.0	25318.6	19635.6
65°	18316.0	18435.6	19896.0	22946.9	26940.8	28383.6	28559.5	28031.7	27243.5	24118.7	17517.2
67.5°	18421.5	18653.8	20747.5	24769.7	29453.4	30815.2	30674.4	28654.6	26152.6	20779.2	13730.8
70°	16475.6	16880.3	19389.2	25047.7	31223.4	32226.3	31209.3	27313.8	22193.8	15053.9	8635.4
72.5°	13766.0	14114.4	16331.3	21359.8	28939.6	30217.0	28841.1	23119.3	15683.8	8635.4	4398.6
75°	10715.1	11119.8	13164.3	16978.8	21666.0	22176.2	21486.5	16123.7	8621.4	3561.1	1998.7
77.5°	6538.2	6830.2	8420.8	11503.3	15159.5	14395.9	12200.1	9040.1	3782.8	1706.7	1235.1
80°	2892.6	3072.0	4148.8	6179.2	8758.6	8280.0	6527.6	3860.3	2069.1	1083.8	862.1
82.5°	1551.8	1668.0	2044.5	2445.6	3846.2	4022.1	3262.0	2224.0	1112.0	619.3	492.6
85°	682.7	749.5	929.0	886.8	1263.3	1242.2	1252.7	1527.2	531.4	285.0	320.2
87.5°	0.0	0.0	0.0	0.0	3.5	3.5	38.7	204.1	52.8	84.5	73.9
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: P643648
 CATALOG NUMBER: GWS-SA6F-735-U-SL4-W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8005.5	8005.5	8005.5	8005.5	8005.5	8005.5	8005.5	8005.5	8005.5	8005.5	8005.5
2.5°	7921.1	7857.7	7840.2	7819.0	7780.3	7713.5	7664.2	7607.9	7583.3	7555.1	7558.6
5°	7724.0	7646.6	7572.7	7477.7	7358.1	7224.3	7132.8	7027.3	6971.0	6918.2	6932.3
7.5°	7555.1	7435.5	7284.2	7083.6	6868.9	6629.6	6436.1	6284.8	6182.7	6112.4	6147.6
10°	7449.6	7308.8	7044.9	6717.6	6355.2	5989.2	5711.2	5450.8	5288.9	5162.3	5155.2
12.5°	7428.4	7245.5	6861.9	6386.8	5862.5	5373.4	4965.2	4613.3	4398.6	4240.3	4300.1
15°	7449.6	7217.3	6703.5	6080.7	5419.1	4757.6	4250.9	3846.2	3589.3	3445.0	3434.5
17.5°	7474.2	7189.2	6524.1	5749.9	4954.6	4198.1	3610.4	3181.1	2917.2	2772.9	2776.4
20°	7495.3	7146.9	6312.9	5387.5	4483.1	3677.3	3068.5	2660.3	2424.5	2319.0	2336.6
22.5°	7530.5	7104.7	6087.7	5000.4	4001.0	3174.1	2639.2	2308.4	2167.7	2097.3	2100.8
25°	7597.3	7080.1	5855.5	4578.1	3526.0	2772.9	2343.6	2121.9	2033.9	1991.7	1988.2
27.5°	7734.6	7101.2	5612.7	4169.9	3096.6	2466.8	2153.6	2009.3	1949.5	1921.3	1917.8
30°	7963.3	7185.6	5401.5	3754.7	2727.2	2227.5	2023.4	1935.4	1900.2	1875.6	1872.1
32.5°	8311.7	7344.0	5172.8	3367.6	2428.1	2051.5	1921.3	1875.6	1851.0	1836.9	1836.9
35°	8839.5	7632.5	4947.6	3029.8	2195.8	1914.3	1840.4	1822.8	1801.7	1794.6	1801.7
37.5°	9599.6	8093.5	4743.5	2734.2	2030.4	1808.7	1752.4	1759.5	1741.9	1752.4	1763.0
40°	10563.8	8709.3	4571.1	2491.4	1907.3	1731.3	1675.0	1699.6	1689.1	1699.6	1717.2
42.5°	11784.9	9472.9	4440.9	2301.4	1819.3	1668.0	1615.2	1639.8	1632.8	1646.9	1664.4
45°	13146.7	10479.3	4381.1	2167.7	1755.9	1622.2	1565.9	1583.5	1576.5	1587.0	1604.6
47.5°	14452.2	11394.3	4433.8	2090.2	1703.2	1583.5	1523.7	1530.7	1527.2	1523.7	1534.2
50°	15578.3	12122.7	4585.2	2065.6	1668.0	1544.8	1488.5	1492.0	1481.5	1460.4	1467.4
52.5°	16496.7	12706.8	4676.6	2065.6	1650.4	1502.6	1449.8	1453.3	1432.2	1404.0	1407.6
55°	17101.9	12942.6	4602.7	2062.1	1643.3	1467.4	1411.1	1414.6	1393.5	1358.3	1361.8
57.5°	17274.4	12713.9	4293.1	2023.4	1636.3	1439.2	1372.4	1379.4	1365.3	1326.6	1326.6
60°	16792.3	11876.4	3726.5	1935.4	1618.7	1421.6	1344.2	1354.8	1347.7	1309.0	1309.0
62.5°	15529.0	10387.8	3050.9	1801.7	1569.4	1400.5	1319.6	1340.7	1358.3	1337.2	1333.7
65°	13164.3	8322.2	2480.8	1653.9	1506.1	1365.3	1284.4	1337.2	1375.9	1404.0	1404.0
67.5°	9877.6	5957.5	2023.4	1499.1	1411.1	1295.0	1238.7	1287.9	1316.1	1333.7	1344.2
70°	6020.9	3504.8	1594.1	1319.6	1273.8	1189.4	1147.2	1097.9	1059.2	1052.2	1055.7
72.5°	2945.3	2005.8	1295.0	1122.5	1087.3	1009.9	914.9	893.8	876.2	865.7	862.1
75°	1622.2	1397.0	1069.8	932.5	869.2	774.2	753.0	717.9	710.8	696.7	700.3
77.5°	1147.2	1101.4	883.2	756.6	661.6	612.3	622.8	598.2	598.2	587.7	584.1
80°	862.1	865.7	679.2	552.5	489.1	471.5	482.1	482.1	475.1	471.5	468.0
82.5°	545.4	615.8	457.5	355.4	348.4	351.9	348.4	344.9	351.9	341.3	337.8
85°	376.5	443.4	278.0	211.1	211.1	207.6	214.7	211.1	218.2	207.6	207.6
87.5°	84.5	197.1	102.0	63.3	66.9	63.3	66.9	70.4	77.4	80.9	80.9
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)