

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: P642176

Luminaire Tested: GWS-SA6C-735-U-T2-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P642176
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-SA6C-735-U-T2-W
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: (96) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27785.7 lumens
Efficiency: N/A
Efficacy: 146.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

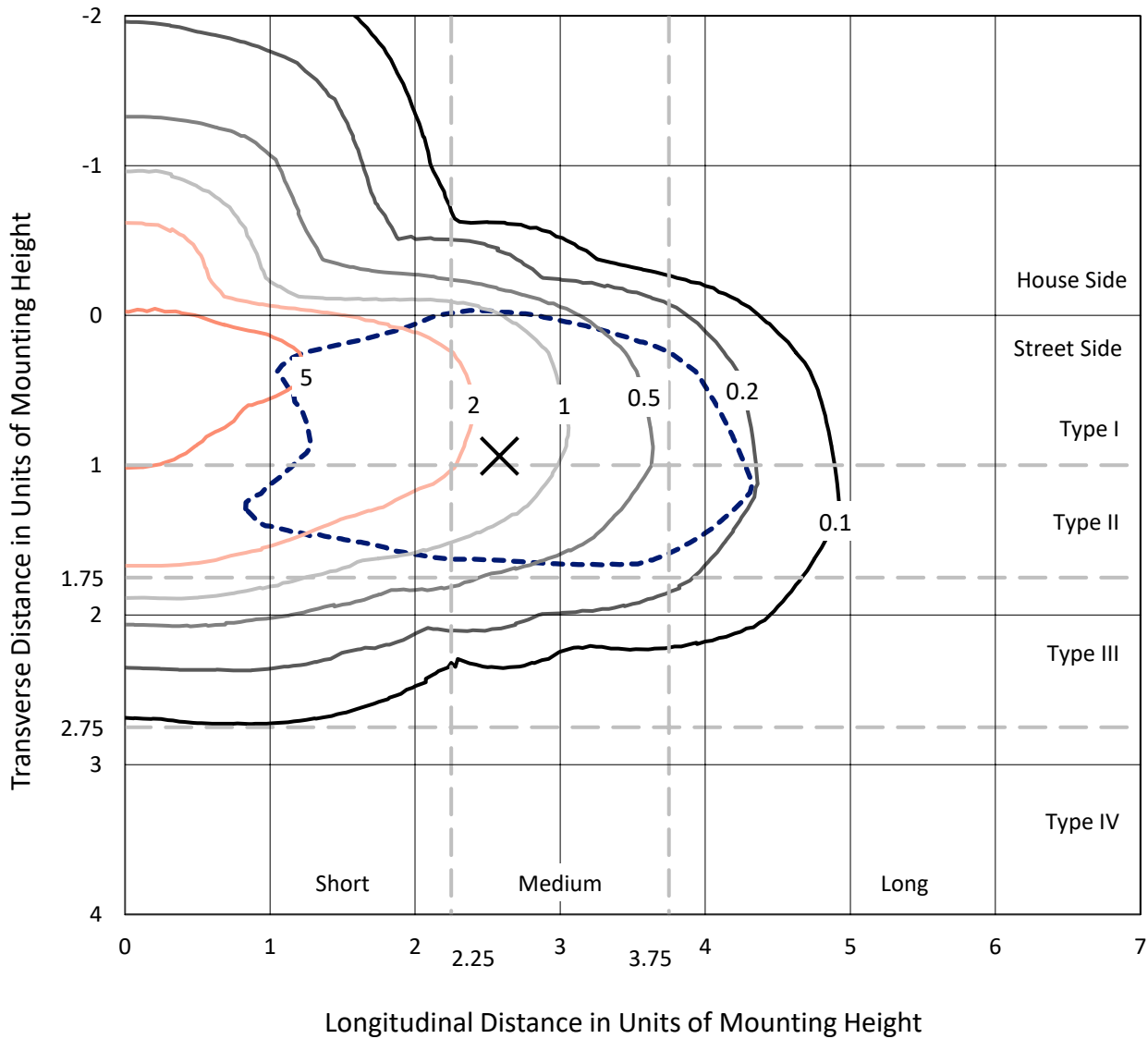
Input Watts (W): 189.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P642176
 CATALOG NUMBER: GWS-SA6C-735-U-T2-W

Iso-Footcandle Lines of Horizontal Illumination

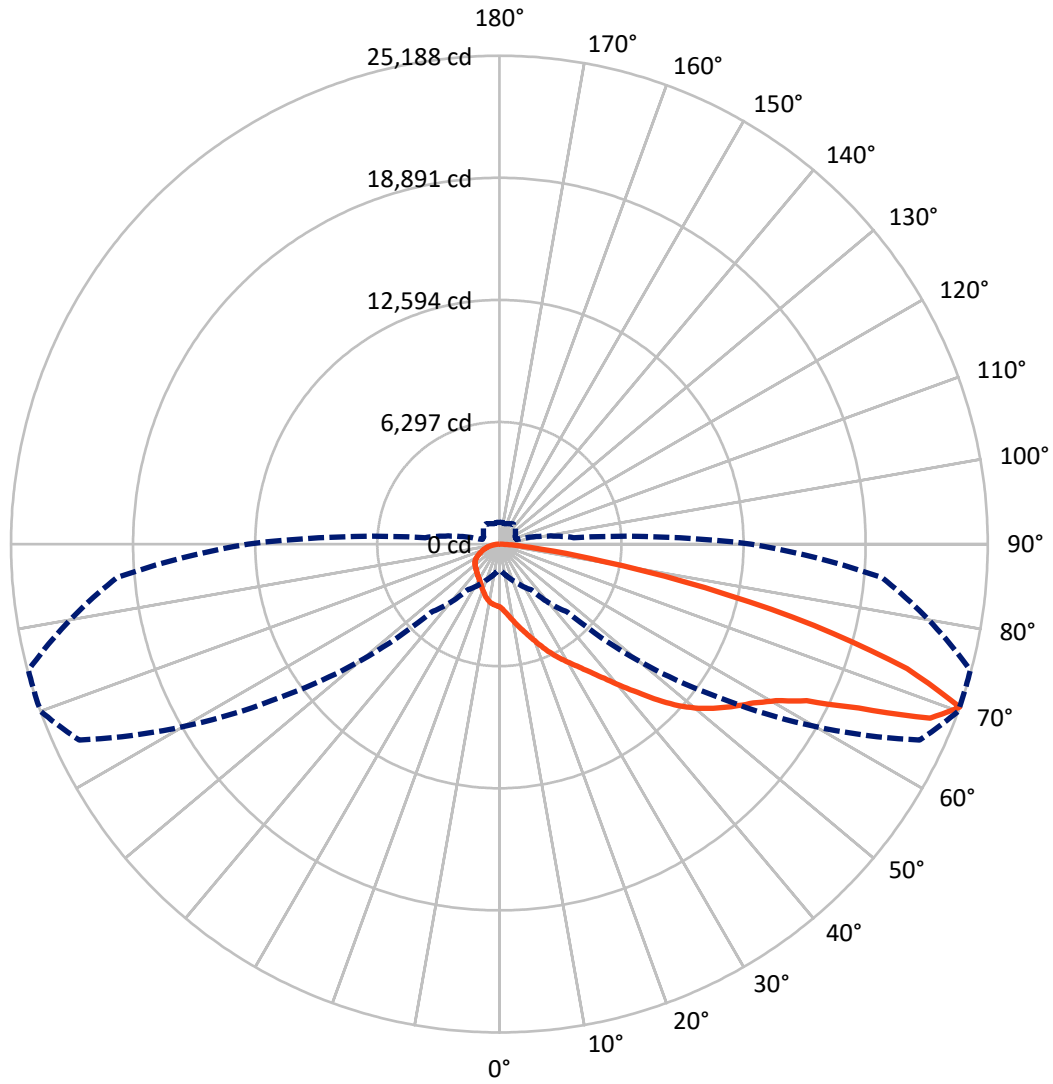
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 fc
 Type II - Medium - N/A

REPORT NUMBER: P642176
CATALOG NUMBER: GWS-SA6C-735-U-T2-W

Luminous Intensity Polar Plot



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

REPORT NUMBER: P642176

CATALOG NUMBER: GWS-SA6C-735-U-T2-W

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4979.3	0.0	4979.3
	% Fixture	17.9	0.0	17.9
Street Side	Lumens	22806.4	0.0	22806.4
	% Fixture	82.1	0.0	82.1
Total	Lumens	27785.7	0.0	27785.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	329.3	1.2
10°-20°	1071.4	3.9
20°-30°	1898.0	6.8
30°-40°	2856.5	10.3
40°-50°	4321.5	15.6
50°-60°	6190.8	22.3
60°-70°	6843.3	24.6
70°-80°	3861.8	13.9
80°-90°	413.1	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°	27785.7	100.0
0°-180°	27785.7	100.0

Coefficient of Utilization



REPORT NUMBER: P642176

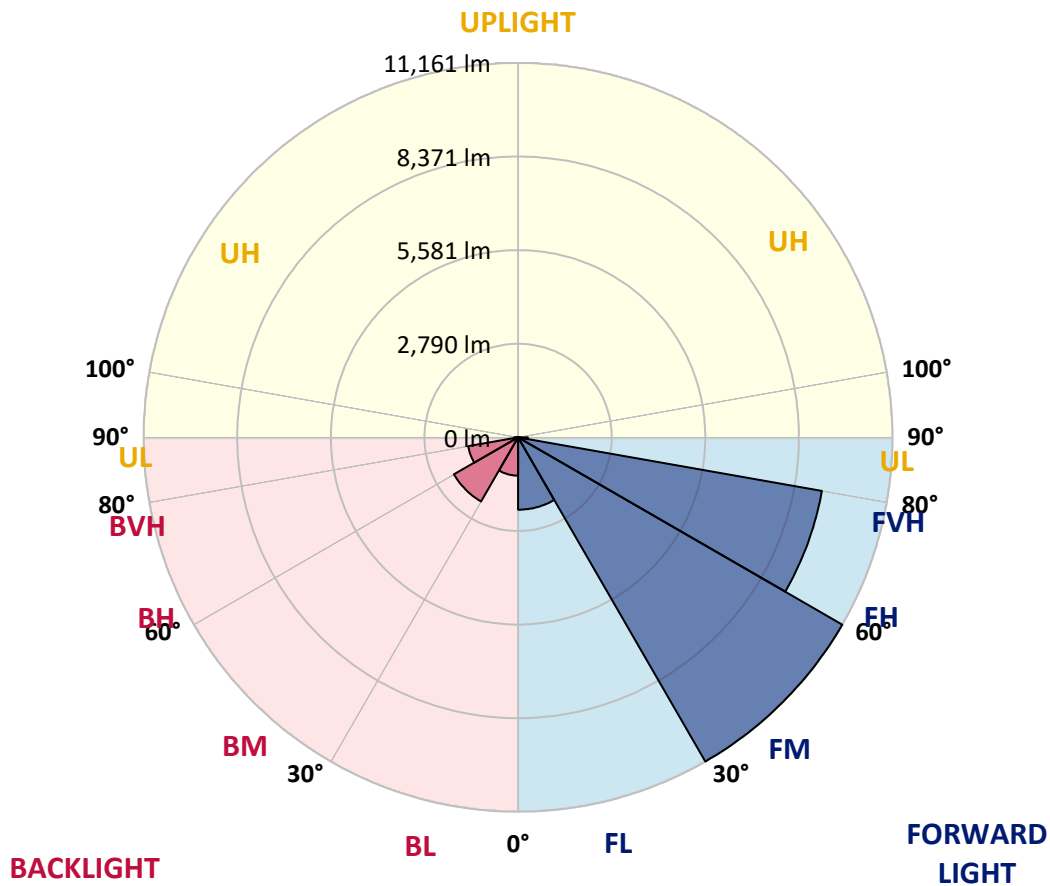
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2157.0	7.8			
FM (30°-60°)	11161.5	40.2			
FH (60°-80°)	9195.9	33.1			G4/12000
FVH (80°-90°)	292.0	1.1			G3/500
BL (0°-30°)	1141.7	4.1	B3/2500		
BM (30°-60°)	2207.3	7.9	B2/2500		
BH (60°-80°)	1509.2	5.4	B3/2500		G3/2500
BVH (80°-90°)	121.1	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Medium





REPORT NUMBER: P642176
 CATALOG NUMBER: GWS-SA6C-735-U-T2-W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	3240.4	3240.4	3240.4	3240.4	3240.4	3240.4	3240.4	3240.4	3240.4	3240.4	3240.4
2.5°	3589.7	3583.7	3587.7	3583.7	3561.6	3507.4	3463.2	3407.0	3368.9	3346.8	3294.6
5°	4011.3	4005.3	3991.3	3971.2	3931.0	3856.7	3746.3	3623.9	3549.6	3493.4	3382.9
7.5°	4314.5	4314.5	4312.5	4288.4	4260.3	4182.0	4051.5	3890.9	3782.5	3686.1	3505.4
10°	4469.1	4479.1	4493.2	4527.3	4521.3	4479.1	4356.7	4184.0	4047.5	3935.0	3666.0
12.5°	4553.4	4559.4	4583.5	4653.8	4726.1	4736.1	4663.8	4483.1	4334.6	4184.0	3844.7
15°	4661.8	4663.8	4696.0	4780.3	4886.7	4993.1	4975.0	4794.3	4641.7	4475.1	4043.5
17.5°	4746.1	4760.2	4818.4	4916.8	5049.3	5195.9	5284.2	5171.8	4983.1	4792.3	4260.3
20°	4776.3	4786.3	4862.6	5013.2	5193.9	5400.6	5597.4	5567.3	5376.6	5151.7	4505.2
22.5°	4884.7	4884.7	4940.9	5067.4	5280.2	5581.3	5900.6	5978.9	5810.2	5547.2	4768.2
25°	5123.6	5115.6	5141.7	5193.9	5354.5	5725.9	6199.7	6434.6	6245.9	5950.7	5031.2
27.5°	5450.8	5446.8	5444.8	5452.8	5507.1	5852.4	6452.7	6860.2	6671.5	6338.2	5266.1
30°	5806.2	5794.2	5820.3	5796.2	5784.1	6002.9	6667.5	7241.7	7095.1	6721.7	5460.9
32.5°	6290.0	6268.0	6261.9	6183.6	6135.5	6237.8	6840.1	7675.3	7558.9	7135.3	5679.7
35°	6928.5	6908.4	6806.0	6681.5	6539.0	6587.2	7055.0	8099.0	8107.0	7653.3	5966.8
37.5°	7573.0	7577.0	7496.7	7203.5	7057.0	7028.9	7382.2	8614.9	8787.6	8271.6	6338.2
40°	8109.0	8133.1	8133.1	7823.9	7605.1	7579.0	7842.0	9227.3	9570.6	9030.5	6808.0
42.5°	8516.6	8538.6	8608.9	8386.1	8155.2	8245.5	8400.1	9841.6	10458.0	9968.1	7402.3
45°	8964.3	8982.3	9020.5	8892.0	8757.5	8998.4	9032.5	10576.4	11473.9	11020.1	8092.9
47.5°	9558.5	9542.5	9546.5	9452.1	9347.7	9737.2	9729.2	11194.8	12455.6	12172.5	8841.8
50°	10297.4	10327.5	10299.4	10112.7	9990.2	10345.6	10391.7	11879.4	13318.9	13312.9	9596.7
52.5°	11008.1	11020.1	11168.7	11176.7	10925.8	10851.5	10971.9	12570.1	14047.7	14356.9	10321.5
55°	11044.2	11090.4	11536.1	11857.3	12262.9	11666.6	11558.2	13228.6	14752.4	15378.8	11074.3
57.5°	10275.3	10349.6	11106.5	11799.1	12927.4	13066.0	12562.0	14079.8	15457.1	16384.6	11945.7
60°	8633.0	8787.6	9815.5	10875.6	12628.3	14071.8	14615.9	15236.2	16382.6	17412.6	13003.7
62.5°	5513.1	5573.3	7014.8	8789.6	11281.1	13973.4	16852.4	17274.0	17792.0	18751.7	14633.9
65°	2760.6	2953.3	3798.5	5246.1	8135.1	12313.1	17982.7	21006.3	20371.9	21044.5	17276.0
67.5°	1873.2	1935.4	2363.0	3152.1	4770.2	8723.3	17282.1	24150.3	23963.6	24074.0	20092.8
70°	1381.3	1421.4	1758.7	2232.5	2885.0	4952.9	13758.6	23913.4	25188.3	25148.1	19797.7
72.5°	1007.9	1027.9	1282.9	1704.5	2138.2	2561.8	8402.1	19317.9	21988.1	23146.5	17314.2
75°	732.8	756.9	891.4	1274.9	1662.4	1598.1	4147.9	13953.3	16768.1	18996.6	14105.9
77.5°	546.1	576.2	638.4	799.1	1164.5	1144.4	1792.9	9060.6	10845.5	12407.4	8568.8
80°	393.5	399.5	435.7	512.0	738.8	670.6	853.3	4724.1	5416.7	5934.7	3358.8
82.5°	238.9	244.9	291.1	315.2	457.7	421.6	443.7	1529.8	2192.4	2326.9	1254.8
85°	70.3	74.3	132.5	144.6	190.7	180.7	178.7	622.4	742.8	949.6	493.9
87.5°	0.0	0.0	0.0	0.0	2.0	12.0	22.1	110.4	166.6	230.9	120.5
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: P642176
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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3240.4	3240.4	3240.4	3240.4	3240.4	3240.4	3240.4	3240.4	3240.4	3240.4	3240.4
2.5°	3274.5	3228.3	3204.2	3162.1	3132.0	3101.9	3071.7	3043.6	3031.6	3013.5	3017.5
5°	3332.7	3260.5	3188.2	3105.9	3035.6	2977.4	2925.2	2879.0	2858.9	2840.9	2848.9
7.5°	3421.1	3312.7	3174.1	3023.6	2913.1	2832.8	2778.6	2746.5	2736.5	2722.4	2722.4
10°	3533.5	3370.9	3128.0	2913.1	2780.6	2716.4	2692.3	2690.3	2700.3	2702.3	2698.3
12.5°	3658.0	3427.1	3059.7	2782.6	2670.2	2650.1	2668.2	2702.3	2736.5	2754.5	2750.5
15°	3786.5	3463.2	2943.3	2658.2	2589.9	2616.0	2674.2	2742.5	2808.7	2842.9	2840.9
17.5°	3906.9	3471.3	2792.7	2537.7	2519.6	2585.9	2686.3	2792.7	2883.0	2931.2	2933.2
20°	4041.5	3457.2	2638.1	2429.3	2449.4	2557.8	2690.3	2818.8	2925.2	2973.4	2985.4
22.5°	4163.9	3409.0	2487.5	2326.9	2389.1	2523.6	2658.2	2778.6	2873.0	2919.2	2935.2
25°	4274.3	3316.7	2322.9	2240.6	2343.0	2475.5	2577.9	2662.2	2728.4	2756.5	2778.6
27.5°	4334.6	3178.2	2198.4	2172.3	2298.8	2407.2	2463.4	2489.5	2511.6	2503.6	2519.6
30°	4346.6	3005.5	2090.0	2118.1	2232.5	2312.8	2324.9	2298.8	2260.6	2198.4	2212.5
32.5°	4334.6	2806.7	1999.6	2059.9	2158.3	2206.4	2190.4	2122.1	2029.8	1933.4	1939.4
35°	4338.6	2606.0	1925.4	1995.6	2071.9	2098.0	2057.9	1963.5	1865.1	1776.8	1772.8
37.5°	4382.8	2437.3	1863.1	1933.4	1987.6	1991.6	1947.4	1849.1	1798.9	1732.6	1724.6
40°	4505.2	2312.8	1806.9	1871.2	1905.3	1903.3	1853.1	1782.8	1816.9	1794.9	1788.8
42.5°	4706.0	2236.6	1760.7	1804.9	1829.0	1833.0	1792.9	1748.7	1823.0	1794.9	1784.8
45°	5029.2	2232.5	1728.6	1738.6	1776.8	1804.9	1776.8	1726.6	1754.7	1618.2	1592.1
47.5°	5412.7	2300.8	1704.5	1680.4	1746.7	1796.9	1752.7	1672.4	1614.2	1489.7	1471.6
50°	5874.5	2439.3	1682.4	1618.2	1702.5	1766.8	1722.6	1612.2	1523.8	1457.6	1447.5
52.5°	6422.6	2622.0	1654.3	1547.9	1636.3	1750.7	1722.6	1606.1	1489.7	1429.5	1419.4
55°	6996.7	2832.8	1622.2	1463.6	1562.0	1754.7	1736.6	1564.0	1463.6	1431.5	1423.4
57.5°	7709.5	3085.8	1564.0	1365.2	1495.7	1718.6	1680.4	1539.9	1445.5	1419.4	1411.4
60°	8635.0	3461.2	1453.6	1264.8	1419.4	1654.3	1630.2	1499.7	1397.3	1375.3	1369.2
62.5°	10100.6	4097.7	1319.0	1168.5	1329.1	1519.8	1555.9	1423.4	1337.1	1335.1	1333.1
65°	12489.7	4862.6	1160.4	1082.1	1234.7	1409.4	1457.6	1345.1	1274.9	1297.0	1295.0
67.5°	14164.1	4928.8	1029.9	991.8	1124.3	1288.9	1359.2	1264.8	1188.5	1230.7	1228.7
70°	12973.6	3844.7	917.5	897.4	1005.8	1158.4	1252.8	1164.5	1088.2	1128.3	1120.3
72.5°	10941.8	2947.3	811.1	799.1	885.4	1021.9	1116.3	1064.1	983.8	983.8	965.7
75°	8793.6	2431.3	698.7	692.6	750.9	883.4	989.8	901.4	827.2	823.1	811.1
77.5°	5043.3	1594.1	586.2	582.2	600.3	738.8	768.9	750.9	694.7	668.6	660.5
80°	2009.7	829.2	461.8	435.7	453.7	542.1	606.3	576.2	528.0	495.9	477.8
82.5°	779.0	415.6	325.2	285.1	311.2	391.5	439.7	429.6	397.5	325.2	305.2
85°	317.2	202.8	194.7	164.6	180.7	210.8	253.0	218.8	180.7	128.5	122.5
87.5°	84.3	74.3	72.3	44.2	34.1	10.0	2.0	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)