

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: P640306

Luminaire Tested: GWS-SA5D-750-U-T2-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640306
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-SA5D-750-U-T2-W
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: (80) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30488.1 lumens
Efficiency: N/A
Efficacy: 149.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

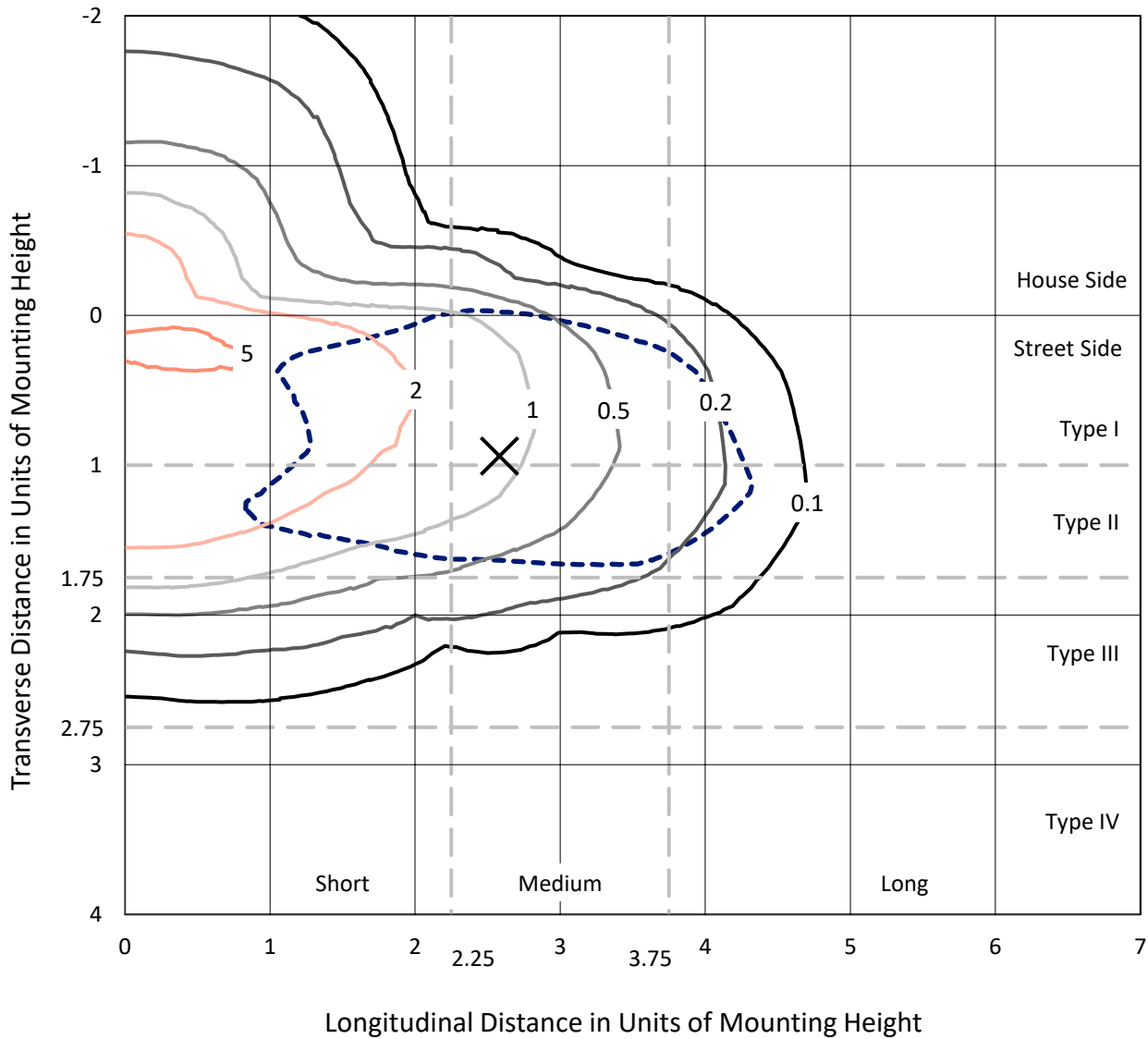
Input Watts (W): 204.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

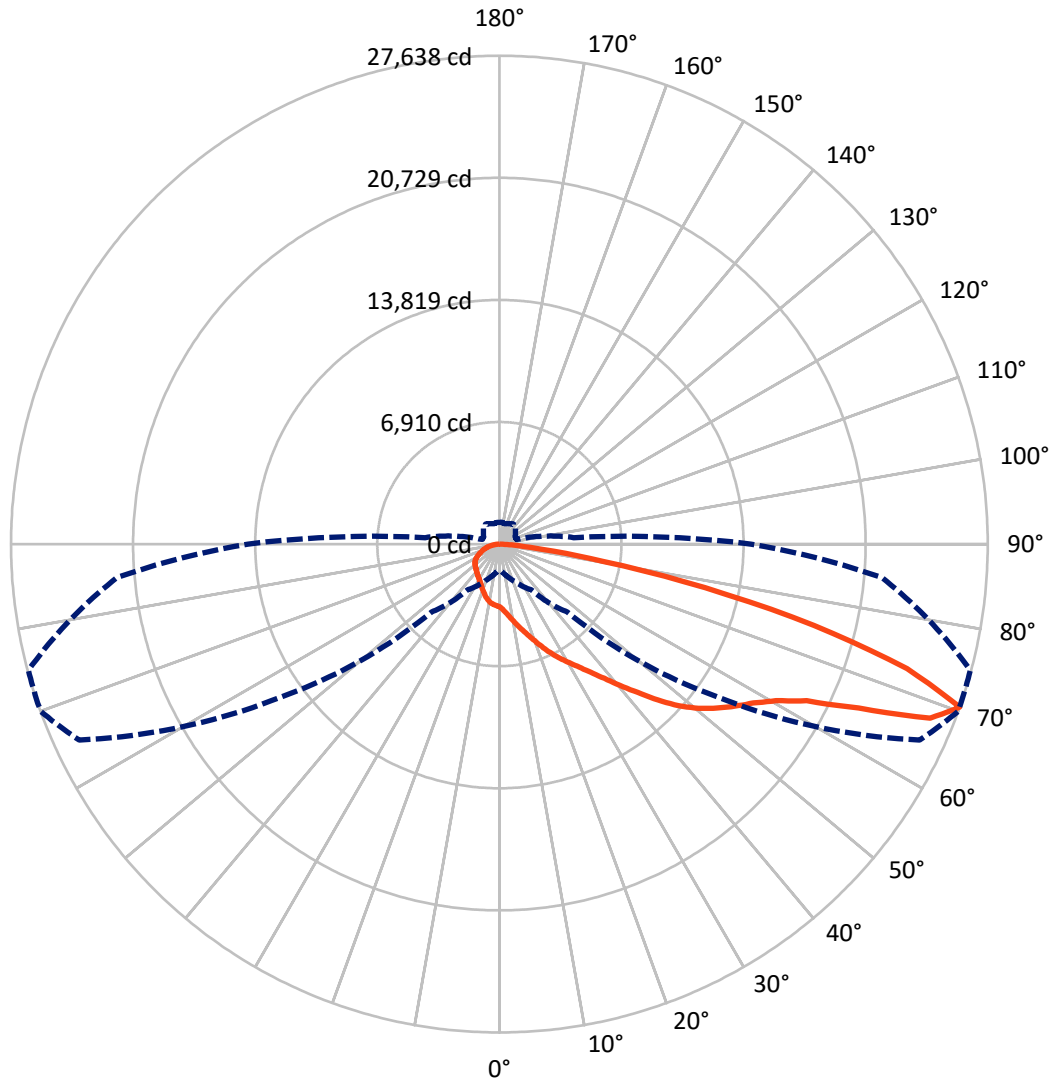
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.7 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5463.5	0.0	5463.5
	% Fixture	17.9	0.0	17.9
Street Side	Lumens	25024.6	0.0	25024.6
	% Fixture	82.1	0.0	82.1
Total	Lumens	30488.1	0.0	30488.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	361.4	1.2
10°-20°	1175.6	3.9
20°-30°	2082.6	6.8
30°-40°	3134.3	10.3
40°-50°	4741.8	15.6
50°-60°	6792.9	22.3
60°-70°	7508.8	24.6
70°-80°	4237.4	13.9
80°-90°	453.3	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°	30488.1	100.0
0°-180°	30488.1	100.0

Coefficient of Utilization



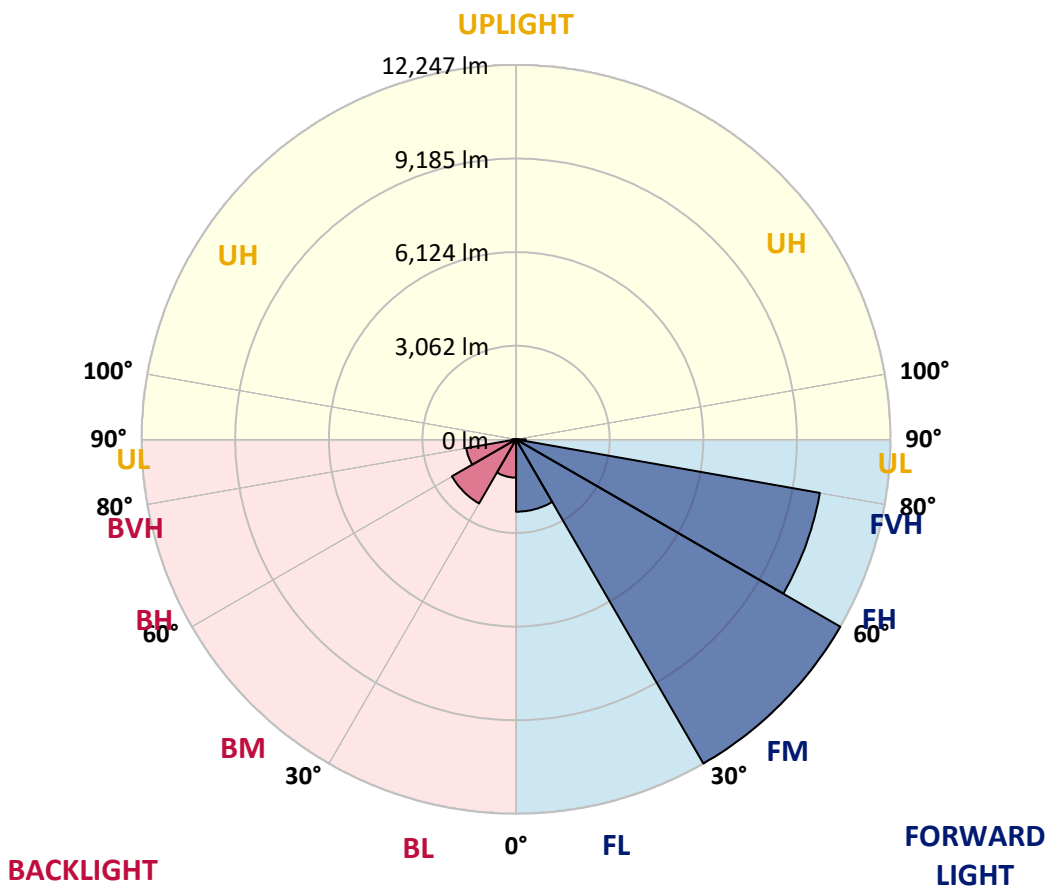
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2366.8	7.8			
FM (30°-60°)	12247.0	40.2			
FH (60°-80°)	10090.3	33.1			G4/12000
FVH (80°-90°)	320.4	1.1			G3/500
BL (0°-30°)	1252.7	4.1	B3/2500		
BM (30°-60°)	2422.0	7.9	B2/2500		
BH (60°-80°)	1656.0	5.4	B3/2500		G3/2500
BVH (80°-90°)	132.8	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	3555.5	3555.5	3555.5	3555.5	3555.5	3555.5	3555.5	3555.5	3555.5	3555.5	3555.5
2.5°	3938.9	3932.2	3936.7	3932.2	3908.0	3848.5	3800.1	3738.4	3696.5	3672.3	3615.0
5°	4401.5	4394.9	4379.4	4357.4	4313.4	4231.8	4110.7	3976.3	3894.8	3833.1	3712.0
7.5°	4734.1	4734.1	4731.9	4705.5	4674.6	4588.7	4445.5	4269.3	4150.3	4044.6	3846.3
10°	4903.7	4914.8	4930.2	4967.6	4961.0	4914.8	4780.4	4590.9	4441.1	4317.8	4022.6
12.5°	4996.3	5002.9	5029.3	5106.4	5185.7	5196.7	5117.4	4919.2	4756.1	4590.9	4218.6
15°	5115.2	5117.4	5152.7	5245.2	5362.0	5478.7	5458.9	5260.6	5093.2	4910.4	4436.7
17.5°	5207.7	5223.2	5287.1	5395.0	5540.4	5701.2	5798.1	5674.8	5467.7	5258.4	4674.6
20°	5240.8	5251.8	5335.5	5500.7	5699.0	5925.9	6141.8	6108.8	5899.5	5652.7	4943.4
22.5°	5359.8	5359.8	5421.4	5560.2	5793.7	6124.2	6474.4	6560.4	6375.3	6086.7	5232.0
25°	5621.9	5613.1	5641.7	5699.0	5875.2	6282.8	6802.7	7060.4	6853.3	6529.5	5520.6
27.5°	5981.0	5976.6	5974.4	5983.2	6042.7	6421.6	7080.2	7527.4	7320.4	6954.7	5778.3
30°	6370.9	6357.7	6386.3	6359.9	6346.7	6586.8	7316.0	7946.0	7785.2	7375.4	5992.0
32.5°	6901.8	6877.6	6871.0	6785.1	6732.2	6844.5	7505.4	8421.8	8294.1	7829.2	6232.1
35°	7602.3	7580.3	7468.0	7331.4	7175.0	7227.8	7741.1	8886.7	8895.5	8397.6	6547.1
37.5°	8309.5	8313.9	8225.8	7904.1	7743.3	7712.5	8100.2	9452.8	9642.3	9076.1	6954.7
40°	8897.7	8924.1	8924.1	8584.9	8344.7	8316.1	8604.7	10124.7	10501.4	9908.8	7470.2
42.5°	9344.9	9369.1	9446.2	9201.7	8948.3	9047.5	9217.1	10798.8	11475.1	10937.6	8122.2
45°	9836.1	9855.9	9897.8	9756.8	9609.2	9873.6	9911.0	11605.1	12589.8	12091.9	8880.0
47.5°	10488.2	10470.6	10475.0	10371.4	10256.9	10684.3	10675.4	12283.6	13667.0	13356.4	9701.7
50°	11298.9	11331.9	11301.1	11096.2	10961.8	11351.7	11402.4	13034.8	14614.3	14607.7	10530.0
52.5°	12078.7	12091.9	12255.0	12263.8	11988.4	11906.9	12039.1	13792.6	15414.0	15753.2	11325.3
55°	12118.4	12169.0	12658.1	13010.6	13455.6	12801.3	12682.3	14515.2	16187.2	16874.5	12151.4
57.5°	11274.6	11356.2	12186.7	12946.7	14184.7	14336.7	13783.8	15449.2	16960.4	17978.2	13107.5
60°	9472.6	9642.3	10770.2	11933.3	13856.5	15440.4	16037.4	16718.1	17976.0	19106.1	14268.4
62.5°	6049.3	6115.4	7697.1	9644.5	12378.3	15332.5	18491.5	18954.1	19522.4	20575.5	16057.2
65°	3029.0	3240.5	4168.0	5756.3	8926.3	13510.6	19731.7	23049.4	22353.2	23091.2	18956.3
67.5°	2055.3	2123.6	2592.9	3458.6	5234.2	9571.8	18962.9	26499.2	26294.3	26415.4	22047.0
70°	1515.6	1559.7	1929.8	2449.7	3165.6	5434.7	15096.7	26239.2	27638.1	27594.0	21723.2
72.5°	1105.9	1127.9	1407.7	1870.3	2346.1	2811.0	9219.3	21196.7	24126.6	25397.7	18998.1
75°	804.1	830.5	978.1	1398.9	1824.0	1753.5	4551.3	15310.4	18398.9	20844.2	15477.9
77.5°	599.2	632.2	700.5	876.8	1277.7	1255.7	1967.2	9941.9	11900.3	13614.2	9402.1
80°	431.8	438.4	478.0	561.7	810.7	735.8	936.2	5183.5	5943.5	6511.9	3685.5
82.5°	262.1	268.8	319.4	345.9	502.3	462.6	486.8	1678.6	2405.6	2553.2	1376.8
85°	77.1	81.5	145.4	158.6	209.3	198.3	196.1	682.9	815.1	1042.0	541.9
87.5°	0.0	0.0	0.0	0.0	2.2	13.2	24.2	121.2	182.8	253.3	132.2
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°	3555.5	3555.5	3555.5	3555.5	3555.5	3555.5	3555.5	3555.5	3555.5	3555.5	3555.5
2.5°	3593.0	3542.3	3515.9	3469.6	3436.6	3403.5	3370.5	3339.7	3326.4	3306.6	3311.0
5°	3656.9	3577.6	3498.3	3407.9	3330.8	3267.0	3209.7	3159.0	3137.0	3117.2	3126.0
7.5°	3753.8	3634.8	3482.8	3317.6	3196.5	3108.3	3048.9	3013.6	3002.6	2987.2	2987.2
10°	3877.2	3698.7	3432.2	3196.5	3051.1	2980.6	2954.1	2951.9	2963.0	2965.2	2960.8
12.5°	4013.8	3760.4	3357.3	3053.3	2929.9	2907.9	2927.7	2965.2	3002.6	3022.4	3018.0
15°	4154.7	3800.1	3229.5	2916.7	2841.8	2870.4	2934.3	3009.2	3081.9	3119.4	3117.2
17.5°	4286.9	3808.9	3064.3	2784.5	2764.7	2837.4	2947.5	3064.3	3163.4	3216.3	3218.5
20°	4434.5	3793.5	2894.7	2665.6	2687.6	2806.5	2951.9	3092.9	3209.7	3262.6	3275.8
22.5°	4568.9	3740.6	2729.4	2553.2	2621.5	2769.1	2916.7	3048.9	3152.4	3203.1	3220.7
25°	4690.1	3639.3	2548.8	2458.5	2570.8	2716.2	2828.6	2921.1	2993.8	3024.6	3048.9
27.5°	4756.1	3487.3	2412.2	2383.6	2522.4	2641.3	2703.0	2731.6	2755.9	2747.1	2764.7
30°	4769.4	3297.8	2293.3	2324.1	2449.7	2537.8	2551.0	2522.4	2480.5	2412.2	2427.6
32.5°	4756.1	3079.7	2194.1	2260.2	2368.2	2421.0	2403.4	2328.5	2227.2	2121.4	2128.0
35°	4760.6	2859.4	2112.6	2189.7	2273.4	2302.1	2258.0	2154.5	2046.5	1949.6	1945.2
37.5°	4809.0	2674.4	2044.3	2121.4	2180.9	2185.3	2136.9	2028.9	1973.8	1901.1	1892.3
40°	4943.4	2537.8	1982.6	2053.1	2090.6	2088.4	2033.3	1956.2	1993.7	1969.4	1962.8
42.5°	5163.7	2454.1	1932.0	1980.4	2006.9	2011.3	1967.2	1918.8	2000.3	1969.4	1958.4
45°	5518.4	2449.7	1896.7	1907.7	1949.6	1980.4	1949.6	1894.5	1925.4	1775.6	1746.9
47.5°	5939.1	2524.6	1870.3	1843.9	1916.6	1971.6	1923.2	1835.0	1771.2	1634.6	1614.8
50°	6445.8	2676.6	1846.1	1775.6	1868.1	1938.6	1890.1	1769.0	1672.0	1599.3	1588.3
52.5°	7047.2	2877.0	1815.2	1698.5	1795.4	1921.0	1890.1	1762.4	1634.6	1568.5	1557.5
55°	7677.2	3108.3	1780.0	1605.9	1713.9	1925.4	1905.5	1716.1	1605.9	1570.7	1561.9
57.5°	8459.3	3385.9	1716.1	1498.0	1641.2	1885.7	1843.9	1689.7	1586.1	1557.5	1548.7
60°	9474.8	3797.9	1594.9	1387.9	1557.5	1815.2	1788.8	1645.6	1533.2	1509.0	1502.4
62.5°	11083.0	4496.2	1447.3	1282.1	1458.3	1667.6	1707.3	1561.9	1467.2	1465.0	1462.8
65°	13704.5	5335.5	1273.3	1187.4	1354.8	1546.5	1599.3	1476.0	1398.9	1423.1	1420.9
67.5°	15541.7	5408.2	1130.1	1088.3	1233.6	1414.3	1491.4	1387.9	1304.1	1350.4	1348.2
70°	14235.4	4218.6	1006.7	984.7	1103.7	1271.1	1374.6	1277.7	1194.0	1238.1	1229.2
72.5°	12006.0	3233.9	890.0	876.8	971.5	1121.3	1224.8	1167.6	1079.4	1079.4	1059.6
75°	9648.9	2667.8	766.6	760.0	823.9	969.3	1086.0	989.1	907.6	903.2	890.0
77.5°	5533.8	1749.1	643.3	638.9	658.7	810.7	843.7	823.9	762.2	733.6	724.8
80°	2205.1	909.8	506.7	478.0	497.9	594.8	665.3	632.2	579.4	544.1	524.3
82.5°	854.7	456.0	356.9	312.8	341.5	429.6	482.4	471.4	436.2	356.9	334.8
85°	348.1	222.5	213.7	180.6	198.3	231.3	277.6	240.1	198.3	141.0	134.4
87.5°	92.5	81.5	79.3	48.5	37.4	11.0	2.2	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)