

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: P638770

Luminaire Tested: GWS-SA4F-740-U-T2R-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638770
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-SA4F-740-U-T2R-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS
Light Source: (64) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34694.1 lumens
Efficiency: N/A
Efficacy: 154.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 225.3
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

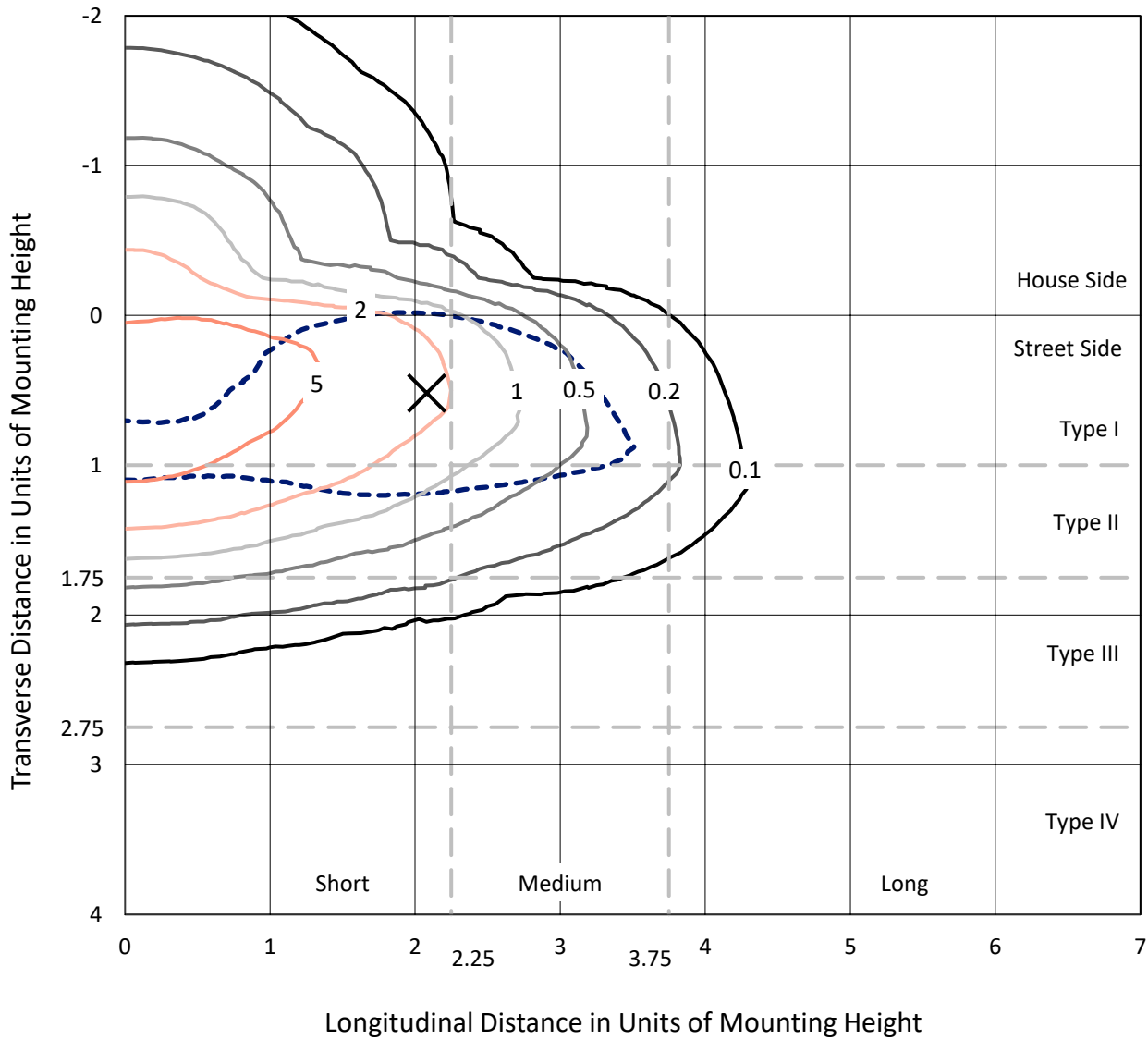


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Iso-Footcandle Lines of Horizontal Illumination

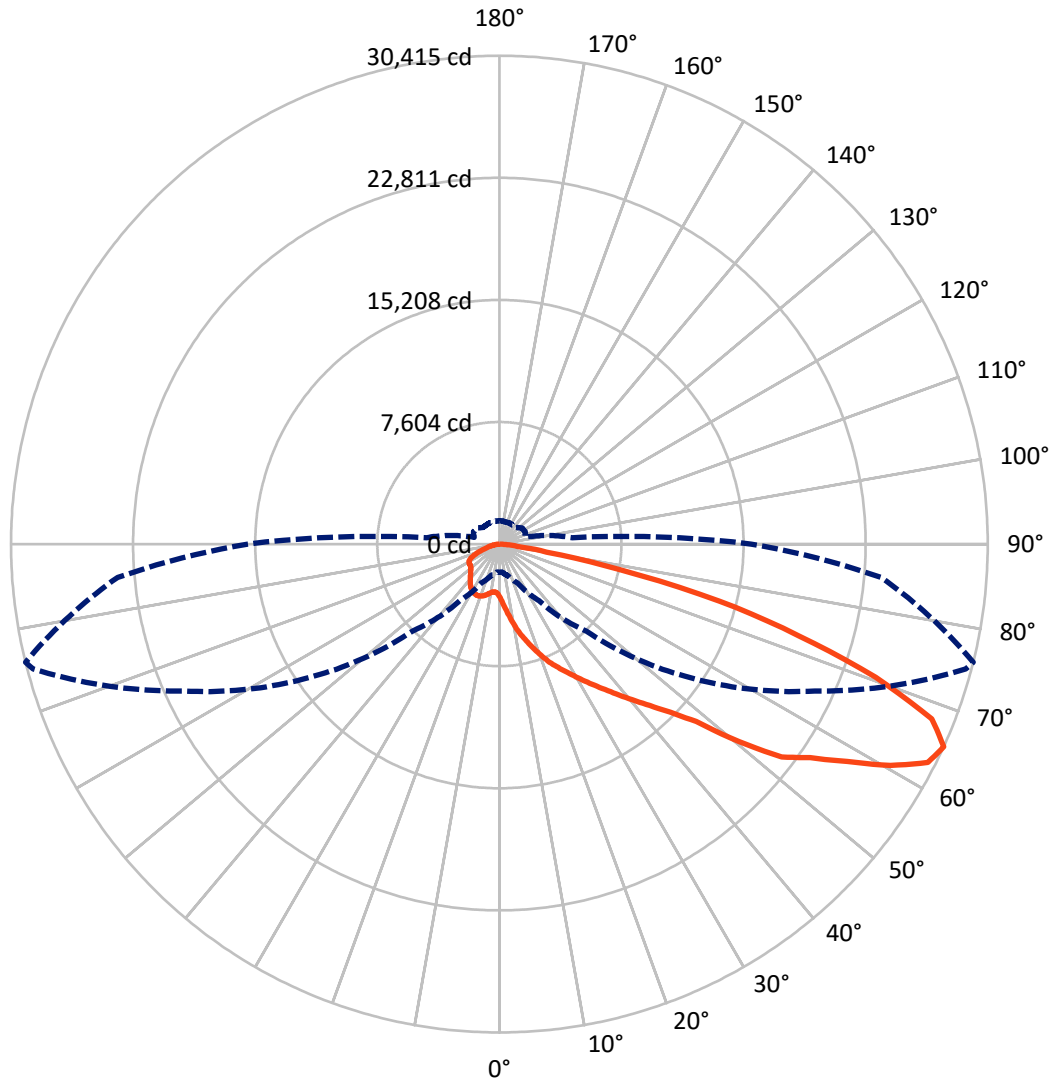
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.5 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	5799.1	0.0	5799.1
	% Fixture	16.7	0.0	16.7
Street Side	Lumens	28894.9	0.0	28894.9
	% Fixture	83.3	0.0	83.3
Total	Lumens	34694.1	0.0	34694.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	390.3	1.1
10°-20°	1486.7	4.3
20°-30°	2897.4	8.4
30°-40°	4845.7	14.0
40°-50°	6938.1	20.0
50°-60°	8213.7	23.7
60°-70°	6829.8	19.7
70°-80°	2794.9	8.1
80°-90°	297.6	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°	34694.1	100.0
0°-180°	34694.1	100.0

Coefficient of Utilization



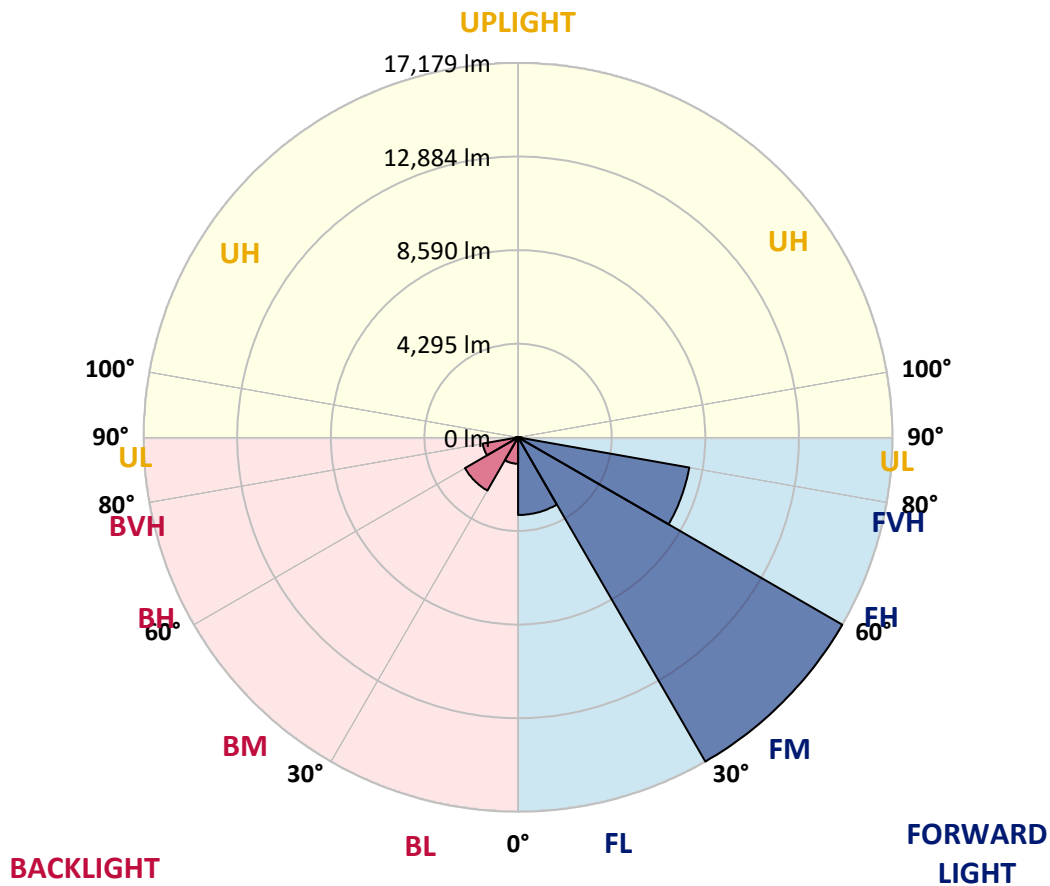
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3561.2	10.3			
FM (30°-60°)	17179.2	49.5			
FH (60°-80°)	7977.1	23.0			G4/12000
FVH (80°-90°)	177.5	0.5			G2/225
BL (0°-30°)	1213.2	3.5	B3/2500		
BM (30°-60°)	2818.3	8.1	B3/5000		
BH (60°-80°)	1647.6	4.7	B3/2500		G3/2500
BVH (80°-90°)	120.1	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-G4
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3285.4	3285.4	3285.4	3285.4	3285.4	3285.4	3285.4	3285.4	3285.4	3285.4	3285.4
2.5°	4604.9	4622.0	4565.9	4546.4	4414.7	4236.6	4087.9	3863.5	3656.1	3624.4	3439.1
5°	5848.8	5775.7	5712.3	5670.8	5487.9	5285.4	4970.8	4548.8	4107.4	4053.7	3653.7
7.5°	6587.9	6575.7	6497.6	6473.2	6331.8	6129.3	5804.9	5280.5	4639.1	4551.3	3943.9
10°	7180.6	7173.3	7134.2	7156.2	7026.9	6829.3	6514.7	5973.2	5222.0	5134.2	4268.3
12.5°	7697.6	7709.8	7702.5	7783.0	7717.2	7563.5	7236.7	6641.5	5804.9	5709.8	4663.5
15°	8075.7	8085.5	8122.0	8297.7	8334.2	8302.5	7970.8	7297.6	6380.6	6244.0	5070.8
17.5°	8183.0	8202.5	8290.3	8573.3	8770.8	8902.5	8656.2	7965.9	6946.4	6797.6	5485.4
20°	8326.9	8348.9	8436.7	8731.8	9022.1	9322.1	9278.2	8644.0	7517.2	7395.2	5904.9
22.5°	8992.8	8975.7	8936.7	9078.2	9285.5	9658.6	9768.4	9295.2	8107.4	7990.3	6368.4
25°	10275.7	10244.0	9995.2	9866.0	9797.7	10024.5	10219.6	9887.9	8683.0	8507.4	6800.1
27.5°	11690.4	11673.3	11356.2	11048.9	10629.4	10531.8	10646.5	10405.0	9241.6	9063.5	7175.7
30°	13029.4	12978.2	12646.5	12261.1	11700.1	11280.6	11112.3	10912.3	9853.8	9668.4	7614.7
32.5°	14227.0	14161.1	13770.9	13344.1	12756.2	12261.1	11758.7	11451.3	10546.5	10331.8	8063.5
35°	15209.9	15144.1	14744.1	14290.4	13644.1	13278.2	12590.4	12036.7	11251.3	11034.3	8592.8
37.5°	15970.9	15909.9	15492.9	15046.5	14483.1	14192.8	13595.3	12695.3	12063.6	11836.7	9153.8
40°	16397.7	16353.8	16019.7	15666.0	15192.9	14941.6	14673.3	13527.0	12973.3	12746.5	9814.7
42.5°	16527.0	16497.7	16263.6	16080.7	15761.2	15570.9	15724.6	14505.0	13944.1	13746.5	10558.7
45°	16202.6	16202.6	16134.3	16227.0	16241.6	16239.2	16778.2	15609.9	15136.8	14919.7	11607.4
47.5°	15373.3	15427.0	15527.0	15983.1	16463.6	16866.0	18010.0	17083.1	16670.9	16492.9	13092.8
50°	13856.3	14002.6	14344.1	15234.3	16256.3	17280.7	19175.8	19261.2	19653.9	19339.2	15278.2
52.5°	11634.3	11612.3	12483.1	13751.4	15309.9	17297.8	19817.3	21183.2	22239.3	22022.2	16902.6
55°	9246.4	9209.9	10022.1	11770.9	13858.7	16644.1	20202.7	22063.7	23673.4	23478.3	18363.6
57.5°	7080.6	7034.2	7756.2	9334.3	11809.9	15256.3	20129.5	23112.5	25646.6	25546.6	20349.0
60°	4873.2	4817.1	5492.7	6873.2	9385.5	13134.3	19319.7	23651.5	27956.4	27990.6	22473.4
62.5°	2926.9	2895.2	3385.4	4456.1	6751.3	10505.0	17424.6	23324.7	29795.5	29949.1	23839.3
65°	1765.9	1743.9	2031.7	2658.6	4283.0	7665.9	14502.6	21653.9	30061.3	30415.0	23871.0
67.5°	1285.4	1287.8	1370.7	1619.5	2497.6	4951.3	10883.0	18658.7	28675.9	29041.8	22366.1
70°	1117.1	1122.0	1165.9	1222.0	1509.8	2834.2	7075.7	14729.4	24580.8	24863.7	18758.7
72.5°	992.7	992.7	1022.0	1051.2	1180.5	1726.8	3790.3	10295.2	19400.2	19475.8	14317.2
75°	873.2	865.9	880.5	895.1	1024.4	1207.3	1843.9	7173.3	14329.4	14153.8	9253.8
77.5°	695.1	687.8	690.3	704.9	822.0	863.4	934.2	4480.5	8075.7	7622.0	4087.9
80°	495.1	490.2	517.1	553.7	607.3	529.3	585.4	2168.3	3202.5	2980.5	1585.4
82.5°	295.1	304.9	346.3	375.6	419.5	331.7	378.1	724.4	1134.2	1104.9	643.9
85°	41.5	43.9	124.4	143.9	180.5	129.3	200.0	326.8	453.7	485.4	226.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	17.1	58.5	129.3	131.7	56.1
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°	3285.4	3285.4	3285.4	3285.4	3285.4	3285.4	3285.4	3285.4	3285.4	3285.4	3285.4
2.5°	3343.9	3229.3	3065.9	2929.3	2814.7	2722.0	2643.9	2585.4	2568.3	2543.9	2543.9
5°	3465.9	3258.6	2965.9	2758.6	2639.1	2568.3	2519.5	2495.2	2483.0	2468.3	2461.0
7.5°	3634.2	3343.9	2948.8	2739.1	2646.4	2602.5	2570.8	2556.1	2546.4	2531.7	2531.7
10°	3865.9	3470.8	3002.5	2807.3	2734.2	2690.3	2653.7	2629.3	2607.3	2585.4	2580.5
12.5°	4117.1	3636.6	3100.0	2900.0	2822.0	2768.3	2717.1	2680.5	2653.7	2626.9	2619.5
15°	4395.2	3807.4	3204.9	2990.3	2892.7	2819.5	2758.6	2702.5	2665.9	2626.9	2622.0
17.5°	4668.3	3980.5	3292.7	3051.3	2926.9	2836.6	2748.8	2675.6	2629.3	2585.4	2573.2
20°	4995.2	4153.7	3353.7	3068.3	2919.5	2800.0	2695.2	2602.5	2551.2	2500.0	2492.7
22.5°	5295.2	4314.7	3383.0	3043.9	2863.4	2722.0	2600.0	2500.0	2443.9	2392.7	2383.0
25°	5585.4	4456.1	3370.8	2985.4	2778.1	2614.7	2487.8	2387.8	2334.2	2280.5	2265.9
27.5°	5865.9	4551.3	3322.0	2895.2	2670.8	2495.2	2373.2	2283.0	2236.6	2190.3	2170.8
30°	6141.5	4639.1	3246.4	2778.1	2534.2	2370.8	2270.8	2207.3	2161.0	2112.2	2097.6
32.5°	6419.6	4702.5	3131.7	2641.5	2395.1	2261.0	2200.0	2153.7	2104.9	2056.1	2041.5
35°	6700.1	4729.3	2992.7	2485.4	2278.1	2190.3	2168.3	2114.7	2048.8	1990.3	1970.8
37.5°	7034.2	4753.7	2819.5	2331.7	2175.6	2156.1	2151.2	2070.8	1992.7	1912.2	1890.3
40°	7436.7	4785.4	2641.5	2192.7	2092.7	2143.9	2124.4	2014.7	1858.6	1780.5	1756.1
42.5°	7929.4	4844.0	2456.1	2065.9	2031.7	2097.6	2075.6	1878.1	1773.2	1729.3	1717.1
45°	8653.8	5058.6	2270.8	1965.9	1985.4	2031.7	1997.6	1797.6	1756.1	1726.8	1712.2
47.5°	9944.0	5387.9	2109.8	1890.3	1948.8	1973.2	1841.5	1775.6	1743.9	1704.9	1687.8
50°	11285.5	5531.8	1980.5	1843.9	1907.3	1919.5	1756.1	1746.4	1724.4	1682.9	1665.9
52.5°	12192.8	5512.3	1902.5	1826.8	1873.2	1826.8	1717.1	1714.7	1700.0	1651.2	1631.7
55°	13217.2	5546.4	1868.3	1831.7	1858.6	1670.8	1668.3	1675.6	1668.3	1614.7	1604.9
57.5°	14600.2	5651.3	1851.2	1848.8	1848.8	1595.1	1622.0	1631.7	1617.1	1592.7	1585.4
60°	15929.4	5658.6	1819.5	1868.3	1841.5	1548.8	1568.3	1578.1	1561.0	1556.1	1553.7
62.5°	16429.5	5307.4	1748.8	1853.7	1812.2	1497.6	1512.2	1517.1	1500.0	1512.2	1509.8
65°	15685.5	4561.0	1631.7	1782.9	1722.0	1451.2	1441.5	1453.7	1424.4	1456.1	1458.6
67.5°	13927.0	3624.4	1453.7	1648.8	1595.1	1400.0	1380.5	1380.5	1331.7	1380.5	1378.1
70°	11229.4	2561.0	1192.7	1434.2	1456.1	1339.0	1329.3	1273.2	1195.1	1268.3	1261.0
72.5°	8512.3	1839.0	939.0	1134.2	1253.7	1253.7	1256.1	1161.0	1070.7	1104.9	1075.6
75°	5392.7	1295.1	751.2	868.3	982.9	1100.0	1156.1	980.5	900.0	885.4	870.7
77.5°	2429.3	851.2	585.4	665.9	697.6	868.3	1056.1	843.9	734.2	702.4	692.7
80°	1017.1	529.3	417.1	470.7	429.3	729.3	931.7	656.1	539.0	495.1	463.4
82.5°	446.3	314.6	265.9	253.7	268.3	541.5	695.1	436.6	336.6	456.1	461.0
85°	187.8	165.9	136.6	124.4	109.8	207.3	326.8	170.7	209.8	119.5	97.6
87.5°	43.9	48.8	36.6	24.4	14.6	2.4	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)