

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: P638825

Luminaire Tested: GWS-SA4F-750-U-T2R-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638825
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-750-U-T2R-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS
Light Source: (64) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35489.1 lumens
Efficiency: N/A
Efficacy: 157.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

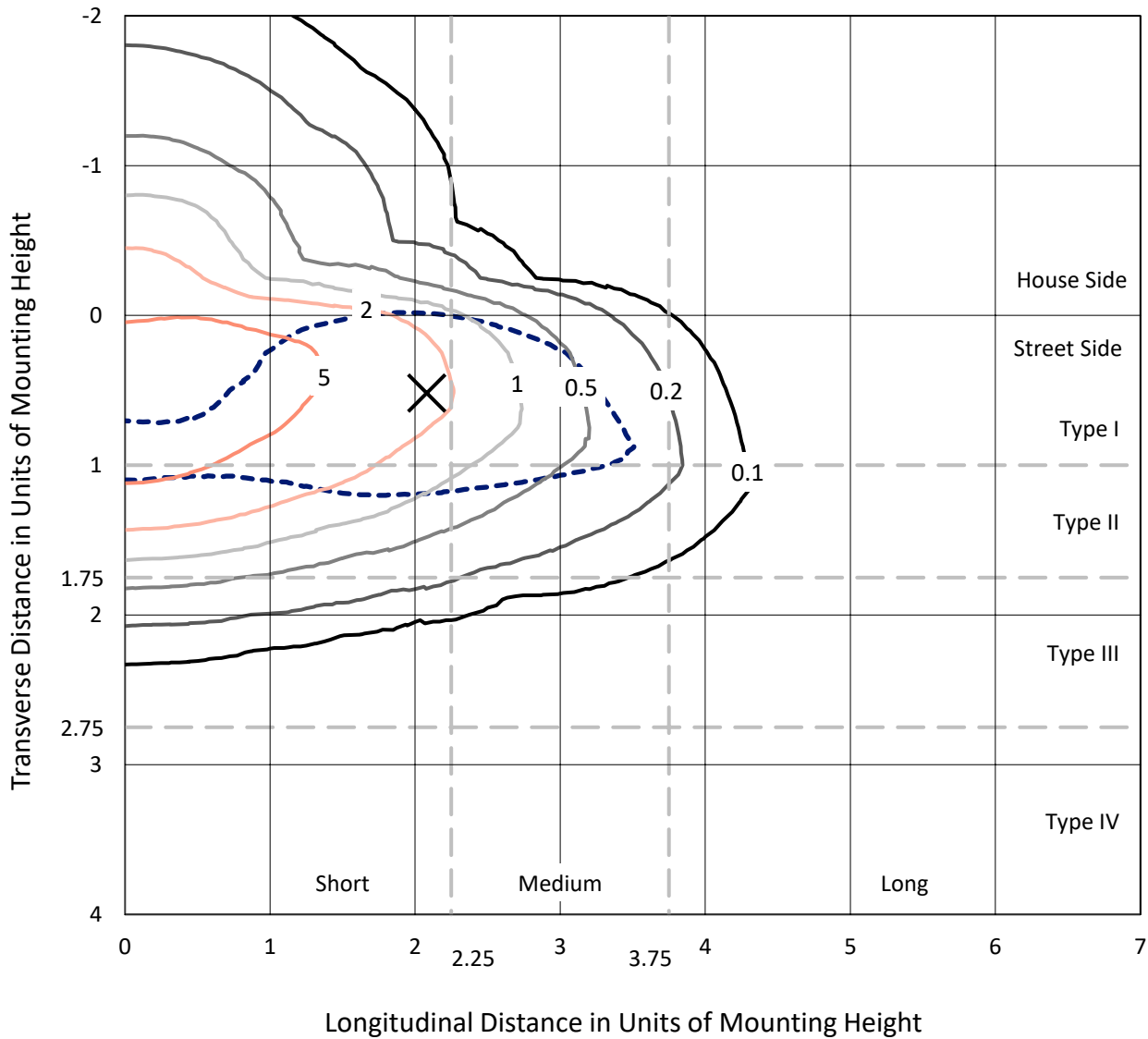
Input Watts (W): 225.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

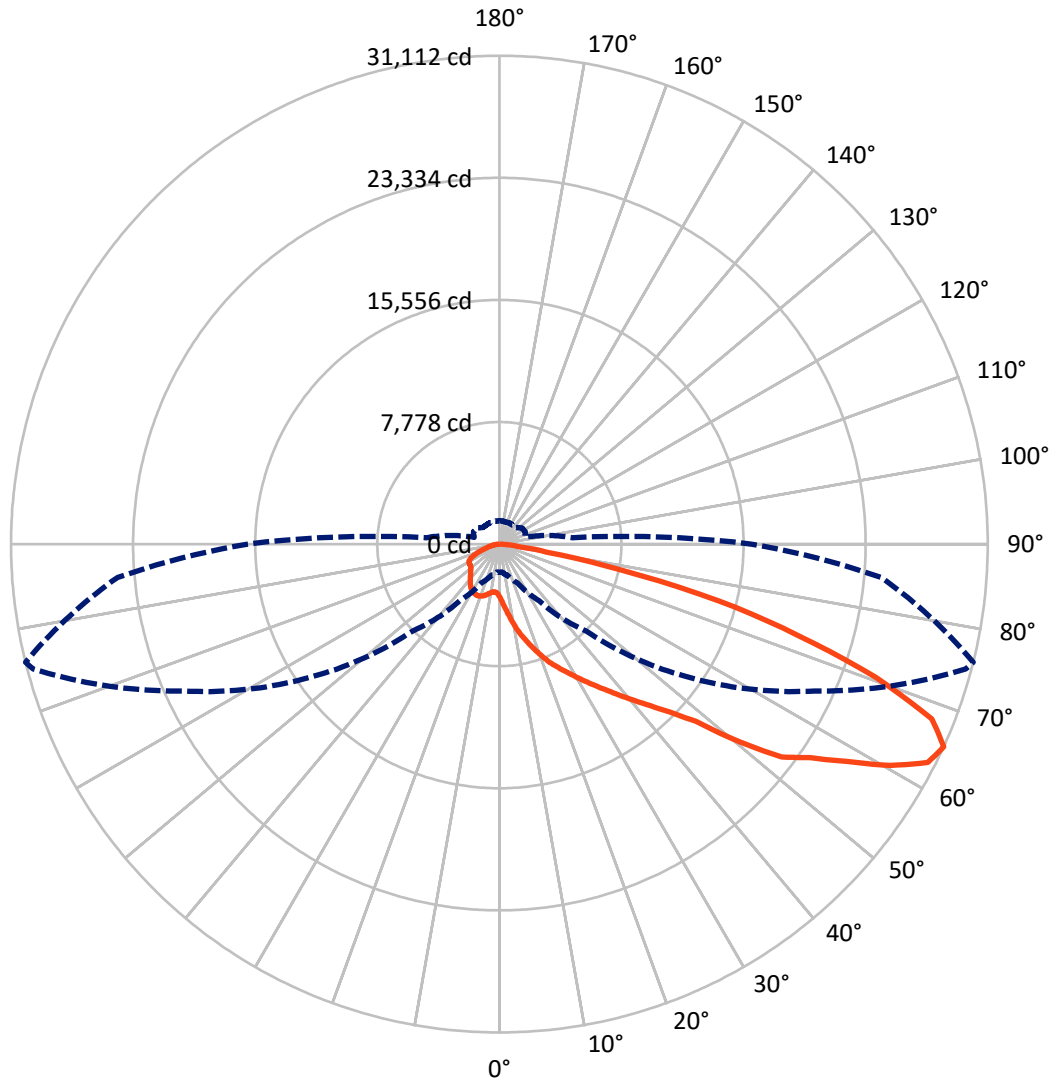
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.7 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	5932.0	0.0	5932.0
	% Fixture	16.7	0.0	16.7
Street Side	Lumens	29557.1	0.0	29557.1
	% Fixture	83.3	0.0	83.3
Total	Lumens	35489.1	0.0	35489.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	399.3	1.1
10°-20°	1520.8	4.3
20°-30°	2963.8	8.4
30°-40°	4956.7	14.0
40°-50°	7097.1	20.0
50°-60°	8401.9	23.7
60°-70°	6986.3	19.7
70°-80°	2859.0	8.1
80°-90°	304.4	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°	35489.1	100.0
0°-180°	35489.1	100.0

Coefficient of Utilization



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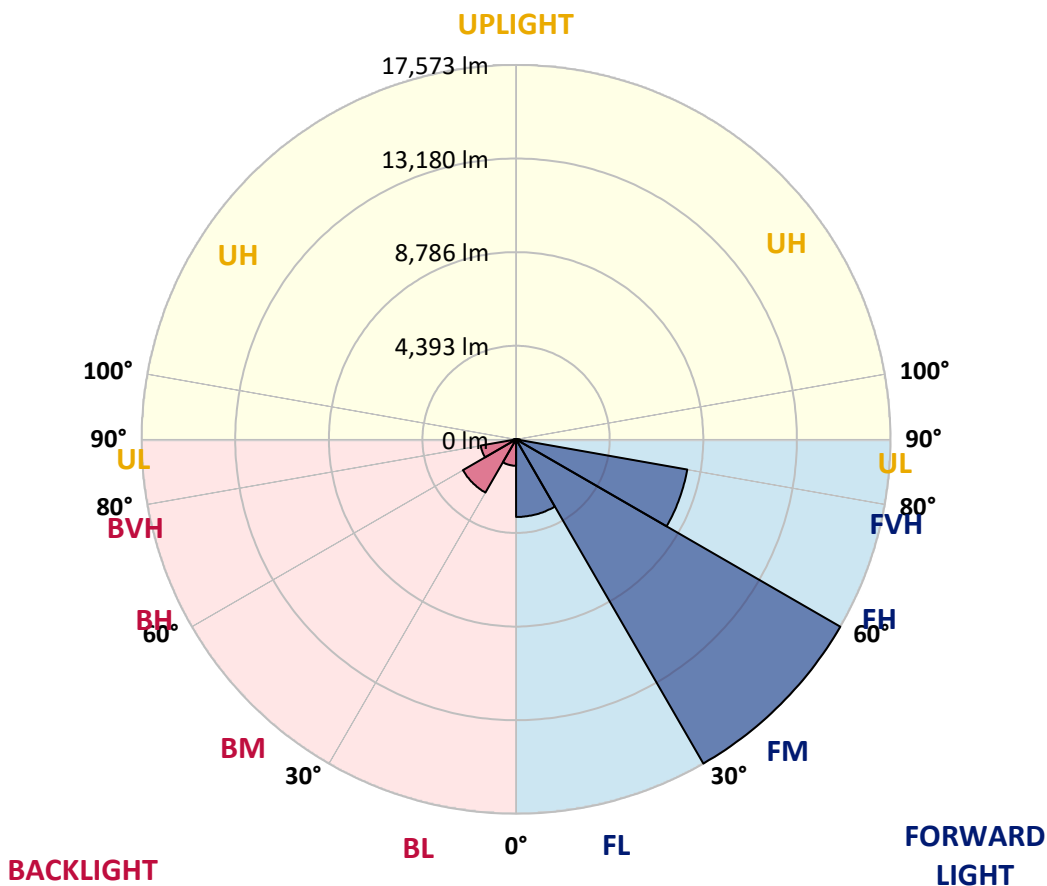
CATALOG NUMBER: GWS-SA4F-750-U-T2R-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3642.8	10.3			
FM (30°-60°)	17572.9	49.5			
FH (60°-80°)	8159.8	23.0			G4/12000
FVH (80°-90°)	181.5	0.5			G2/225
BL (0°-30°)	1241.0	3.5	B3/2500		
BM (30°-60°)	2882.8	8.1	B3/5000		
BH (60°-80°)	1685.4	4.7	B3/2500		G3/2500
BVH (80°-90°)	122.8	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°	3360.7	3360.7	3360.7	3360.7	3360.7	3360.7	3360.7	3360.7	3360.7	3360.7	3360.7
2.5°	4710.5	4727.9	4670.5	4650.6	4515.8	4333.7	4181.5	3952.0	3739.9	3707.5	3517.9
5°	5982.9	5908.0	5843.2	5800.7	5613.6	5406.5	5084.7	4653.1	4201.5	4146.6	3737.4
7.5°	6738.8	6726.4	6646.5	6621.6	6476.9	6269.8	5938.0	5401.5	4745.4	4655.6	4034.3
10°	7345.1	7337.6	7297.7	7320.2	7187.9	6985.8	6664.0	6110.1	5341.7	5251.9	4366.1
12.5°	7874.0	7886.5	7879.0	7961.4	7894.0	7736.8	7402.5	6793.7	5938.0	5840.7	4770.3
15°	8260.8	8270.7	8308.2	8487.8	8525.2	8492.8	8153.5	7464.9	6526.8	6387.1	5187.0
17.5°	8370.5	8390.5	8480.3	8769.7	8971.8	9106.5	8854.5	8148.5	7105.6	6953.4	5611.1
20°	8517.7	8540.2	8630.0	8931.9	9228.8	9535.7	9490.8	8842.1	7689.4	7564.7	6040.3
22.5°	9198.9	9181.4	9141.5	9286.2	9498.2	9880.0	9992.2	9508.2	8293.2	8173.4	6514.3
25°	10511.2	10478.8	10224.3	10092.0	10022.2	10254.2	10453.8	10114.5	8882.0	8702.4	6955.9
27.5°	11958.3	11940.8	11616.4	11302.1	10873.0	10773.2	10890.4	10643.4	9453.3	9271.2	7340.1
30°	13328.0	13275.6	12936.3	12542.1	11968.2	11539.1	11367.0	11162.4	10079.6	9889.9	7789.2
32.5°	14553.0	14485.6	14086.4	13649.8	13048.5	12542.1	12028.1	11713.8	10788.1	10568.6	8248.3
35°	15558.5	15491.1	15081.9	14617.9	13956.7	13582.5	12878.9	12312.5	11509.2	11287.1	8789.7
37.5°	16336.9	16274.5	15847.9	15391.3	14815.0	14518.1	13906.8	12986.2	12340.0	12108.0	9363.5
40°	16773.5	16728.6	16386.8	16025.0	15541.0	15284.0	15009.6	13836.9	13270.6	13038.6	10039.6
42.5°	16905.7	16875.8	16636.3	16449.2	16122.3	15927.7	16084.9	14837.4	14263.6	14061.5	10800.6
45°	16573.9	16573.9	16504.0	16598.8	16613.8	16611.3	17162.7	15967.6	15483.6	15261.6	11873.4
47.5°	15725.6	15780.5	15882.8	16349.4	16840.9	17252.5	18422.7	17474.6	17052.9	16870.8	13392.8
50°	14173.8	14323.5	14672.8	15583.4	16628.8	17676.7	19615.2	19702.6	20104.2	19782.4	15628.3
52.5°	11900.9	11878.4	12769.1	14066.5	15660.7	17694.1	20271.4	21668.6	22748.9	22526.8	17289.9
55°	9458.3	9420.9	10251.7	12040.6	14176.3	17025.5	20665.6	22569.2	24215.9	24016.3	18784.4
57.5°	7242.8	7195.4	7933.9	9548.1	12080.5	15605.9	20590.8	23642.1	26234.3	26132.0	20815.3
60°	4984.9	4927.5	5618.6	7030.7	9600.5	13435.3	19762.4	24193.5	28597.0	28632.0	22988.4
62.5°	2993.9	2961.5	3463.0	4558.3	6906.0	10745.7	17823.9	23859.1	30478.2	30635.4	24385.6
65°	1806.3	1783.9	2078.3	2719.5	4381.1	7841.6	14834.9	22150.1	30750.2	31111.9	24418.0
67.5°	1314.8	1317.3	1402.2	1656.6	2554.8	5064.7	11132.4	19086.3	29333.0	29707.3	22878.6
70°	1142.7	1147.7	1192.6	1250.0	1544.4	2899.1	7237.8	15067.0	25144.0	25433.4	19188.6
72.5°	1015.4	1015.4	1045.4	1075.3	1207.6	1766.4	3877.1	10531.1	19844.8	19922.1	14645.3
75°	893.2	885.7	900.7	915.6	1047.9	1235.0	1886.2	7337.6	14657.8	14478.1	9465.8
77.5°	711.1	703.6	706.1	721.0	840.8	883.2	955.6	4583.2	8260.8	7796.7	4181.5
80°	506.5	501.5	528.9	566.4	621.2	541.4	598.8	2218.0	3275.9	3048.8	1621.7
82.5°	301.9	311.9	354.3	384.2	429.1	339.3	386.7	741.0	1160.1	1130.2	658.7
85°	42.4	44.9	127.2	147.2	184.6	132.2	204.6	334.3	464.1	496.5	232.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	17.5	59.9	132.2	134.7	57.4
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°	3360.7	3360.7	3360.7	3360.7	3360.7	3360.7	3360.7	3360.7	3360.7	3360.7	3360.7
2.5°	3420.6	3303.3	3136.1	2996.4	2879.2	2784.4	2704.5	2644.6	2627.2	2602.2	2602.2
5°	3545.3	3333.2	3033.8	2821.8	2699.5	2627.2	2577.3	2552.3	2539.9	2524.9	2517.4
7.5°	3717.5	3420.6	3016.4	2801.8	2707.0	2662.1	2629.7	2614.7	2604.7	2589.7	2589.7
10°	3954.5	3550.3	3071.3	2871.7	2796.8	2751.9	2714.5	2689.5	2667.1	2644.6	2639.6
12.5°	4211.5	3720.0	3171.1	2966.5	2886.6	2831.8	2779.4	2741.9	2714.5	2687.1	2679.6
15°	4495.9	3894.6	3278.4	3058.8	2959.0	2884.2	2821.8	2764.4	2727.0	2687.1	2682.1
17.5°	4775.3	4071.7	3368.2	3121.2	2993.9	2901.6	2811.8	2737.0	2689.5	2644.6	2632.2
20°	5109.6	4248.9	3430.5	3138.6	2986.4	2864.2	2756.9	2662.1	2609.7	2557.3	2549.8
22.5°	5416.5	4413.6	3460.5	3113.7	2929.1	2784.4	2659.6	2557.3	2499.9	2447.5	2437.6
25°	5713.4	4558.3	3448.0	3053.8	2841.7	2674.6	2544.8	2442.5	2387.7	2332.8	2317.8
27.5°	6000.3	4655.6	3398.1	2961.5	2732.0	2552.3	2427.6	2335.3	2287.9	2240.5	2220.5
30°	6282.3	4745.4	3320.8	2841.7	2592.2	2425.1	2322.8	2257.9	2210.5	2160.6	2145.6
32.5°	6566.7	4810.2	3203.5	2702.0	2450.0	2312.8	2250.4	2203.0	2153.1	2103.2	2088.3
35°	6853.6	4837.7	3061.3	2542.3	2330.3	2240.5	2218.0	2163.1	2095.8	2035.9	2015.9
37.5°	7195.4	4862.6	2884.2	2385.2	2225.5	2205.5	2200.5	2118.2	2038.4	1956.0	1933.6
40°	7607.1	4895.1	2702.0	2243.0	2140.7	2193.1	2173.1	2060.8	1901.1	1821.3	1796.4
42.5°	8111.1	4955.0	2512.4	2113.2	2078.3	2145.6	2123.2	1921.1	1813.8	1768.9	1756.4
45°	8852.1	5174.5	2322.8	2010.9	2030.9	2078.3	2043.4	1838.8	1796.4	1766.4	1751.4
47.5°	10171.9	5511.3	2158.1	1933.6	1993.5	2018.4	1883.7	1816.3	1783.9	1744.0	1726.5
50°	11544.1	5658.5	2025.9	1886.2	1951.0	1963.5	1796.4	1786.4	1763.9	1721.5	1704.0
52.5°	12472.2	5638.6	1946.1	1868.7	1916.1	1868.7	1756.4	1753.9	1739.0	1689.1	1669.1
55°	13520.1	5673.5	1911.1	1873.7	1901.1	1709.0	1706.5	1714.0	1706.5	1651.7	1641.7
57.5°	14934.7	5780.8	1893.7	1891.2	1891.2	1631.7	1659.1	1669.1	1654.1	1629.2	1621.7
60°	16294.5	5788.3	1861.2	1911.1	1883.7	1584.3	1604.2	1614.2	1596.8	1591.8	1589.3
62.5°	16805.9	5429.0	1788.9	1896.2	1853.7	1531.9	1546.9	1551.9	1534.4	1546.9	1544.4
65°	16045.0	4665.5	1669.1	1823.8	1761.4	1484.5	1474.5	1487.0	1457.0	1489.5	1492.0
67.5°	14246.1	3707.5	1487.0	1686.6	1631.7	1432.1	1412.1	1412.1	1362.2	1412.1	1409.6
70°	11486.7	2619.7	1220.0	1467.0	1489.5	1369.7	1359.7	1302.4	1222.5	1297.4	1289.9
72.5°	8707.3	1881.2	960.6	1160.1	1282.4	1282.4	1284.9	1187.6	1095.3	1130.2	1100.3
75°	5516.3	1324.8	768.4	888.2	1005.5	1125.2	1182.6	1003.0	920.6	905.7	890.7
77.5°	2485.0	870.7	598.8	681.1	713.6	888.2	1080.3	863.2	751.0	718.5	708.6
80°	1040.4	541.4	426.6	481.5	439.1	746.0	953.1	671.1	551.4	506.5	474.0
82.5°	456.6	321.8	271.9	259.5	274.4	553.9	711.1	446.6	344.3	466.6	471.5
85°	192.1	169.7	139.7	127.2	112.3	212.1	334.3	174.6	214.6	122.3	99.8
87.5°	44.9	49.9	37.4	24.9	15.0	2.5	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)