

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: P641253

Luminaire Tested: GWS-SA5F-740-U-T3R-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P641253
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-15)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5F-740-U-T3R-W
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS
Light Source: (80) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42431 lumens
Efficiency: N/A
Efficacy: 136.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

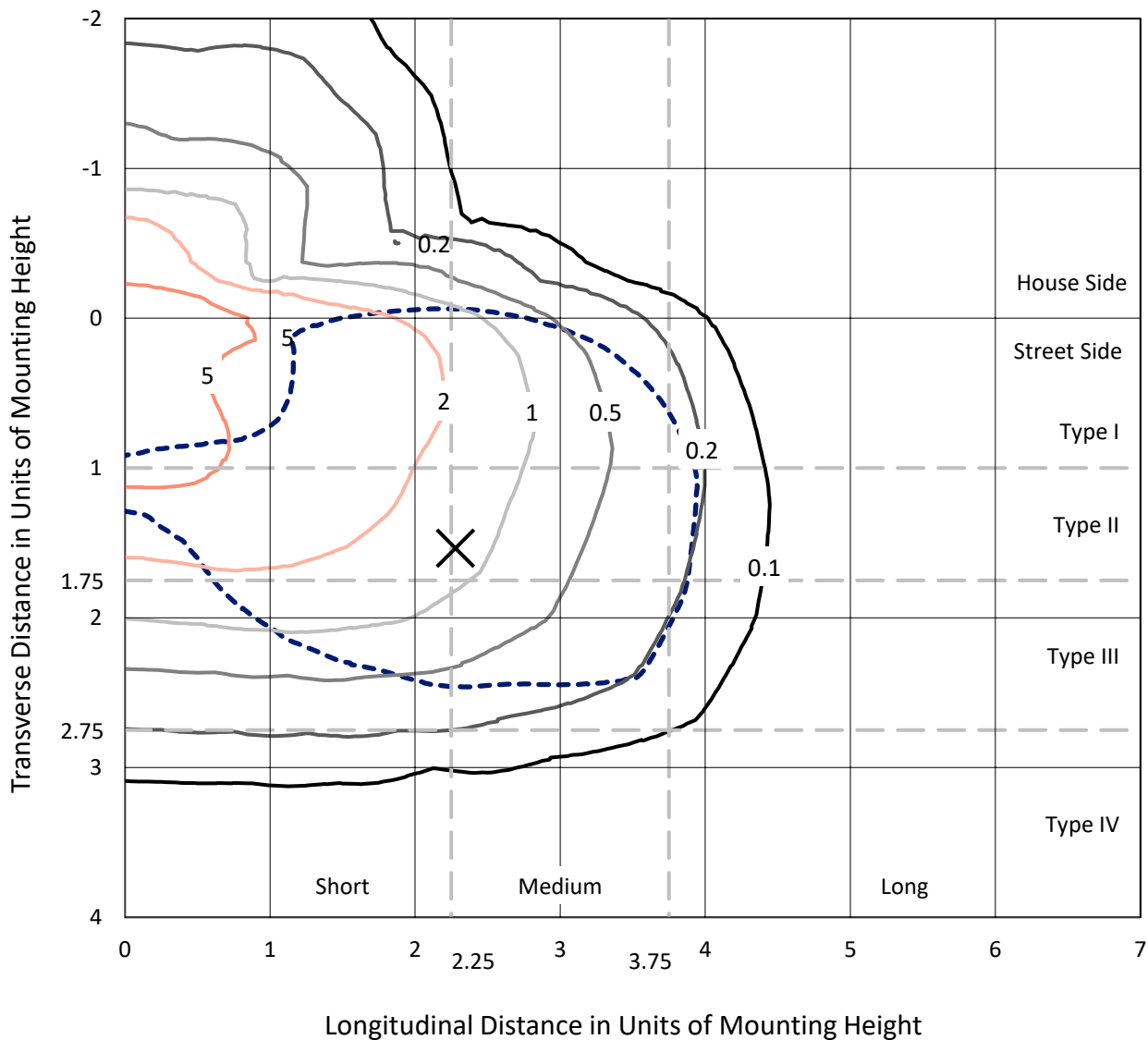
Input Watts (W): 310.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

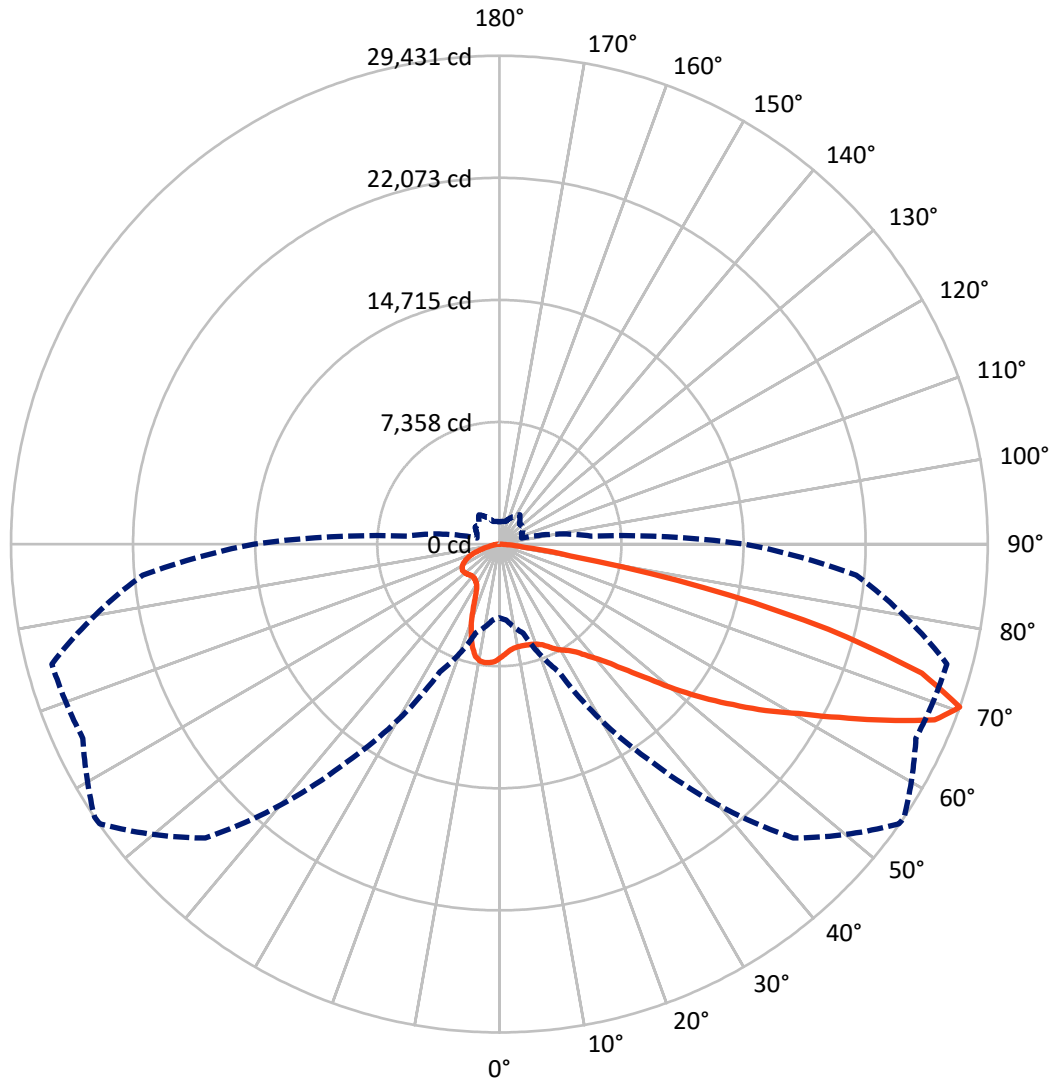
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.9 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8157.4	0.0	8157.4
	% Fixture	19.2	0.0	19.2
Street Side	Lumens	34273.6	0.0	34273.6
	% Fixture	80.8	0.0	80.8
Total	Lumens	42431.0	0.0	42431.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	633.8	1.5
10°-20°	1717.3	4.0
20°-30°	2839.2	6.7
30°-40°	4245.0	10.0
40°-50°	6317.0	14.9
50°-60°	8981.0	21.2
60°-70°	11123.3	26.2
70°-80°	6141.9	14.5
80°-90°	432.6	1.0
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°	42431.0	100.0
0°-180°	42431.0	100.0

Coefficient of Utilization



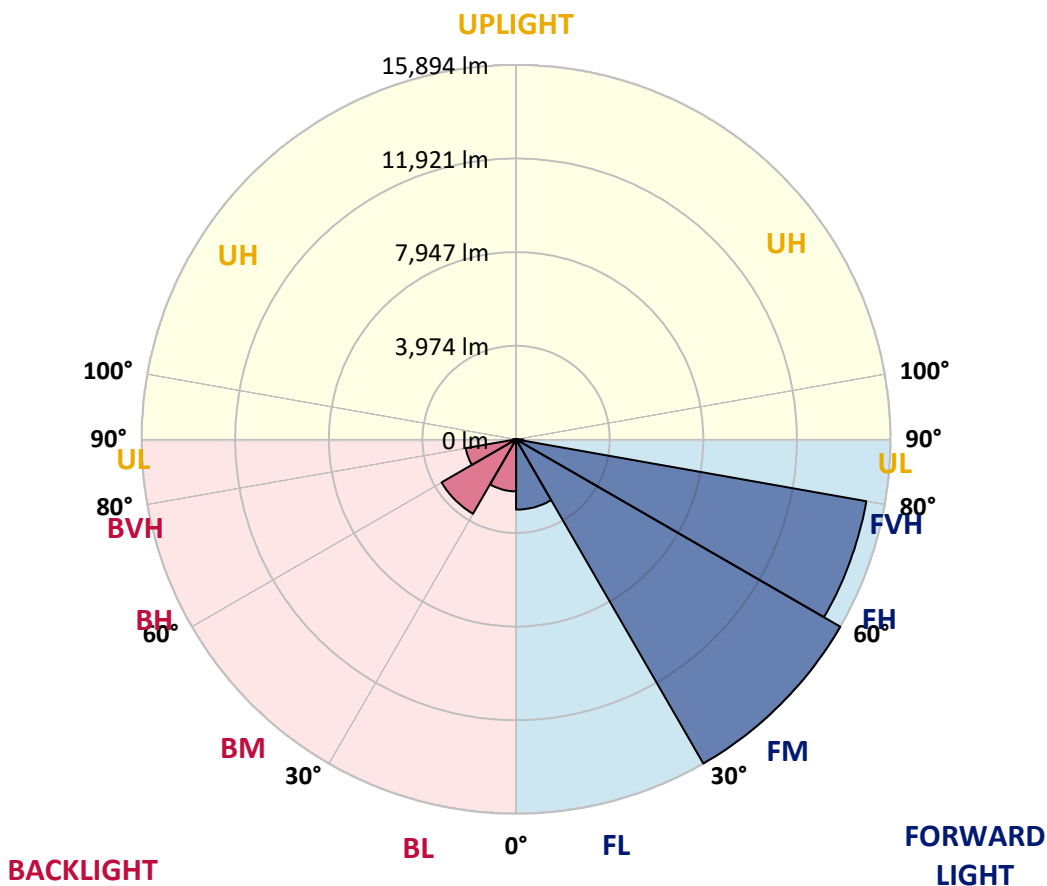
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2982.0	7.0			
FM (30°-60°)	15894.0	37.5			
FH (60°-80°)	15097.0	35.6			G5
FVH (80°-90°)	300.6	0.7			G3/500
BL (0°-30°)	2208.3	5.2	B3/2500		
BM (30°-60°)	3649.0	8.6	B3/5000		
BH (60°-80°)	2168.2	5.1	B3/2500		G3/2500
BVH (80°-90°)	132.0	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 III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	6849.0	6849.0	6849.0	6849.0	6849.0	6849.0	6849.0	6849.0	6849.0	6849.0	6849.0
2.5°	6409.2	6373.3	6415.2	6436.1	6490.0	6567.8	6636.6	6639.6	6675.5	6762.2	6846.0
5°	6118.9	6101.0	6112.9	6175.8	6232.6	6331.4	6436.1	6445.1	6546.8	6717.4	6884.9
7.5°	5894.5	5870.6	5915.5	5996.3	6068.1	6178.8	6316.4	6328.4	6472.0	6729.3	6986.7
10°	5571.4	5553.4	5637.2	5744.9	5900.5	6083.0	6265.5	6280.5	6469.0	6807.1	7166.2
12.5°	5430.7	5430.7	5466.6	5568.4	5738.9	5981.3	6256.6	6280.5	6516.9	6926.8	7396.6
15°	5649.2	5664.1	5634.2	5628.2	5697.0	5927.4	6268.5	6304.4	6606.7	7049.5	7624.0
17.5°	6089.0	6104.0	6026.2	5903.5	5834.7	5978.3	6313.4	6352.3	6702.4	7184.1	7869.3
20°	6705.4	6723.3	6552.8	6364.3	6127.9	6124.9	6400.2	6436.1	6825.1	7330.8	8129.7
22.5°	7426.5	7438.5	7223.0	6923.8	6561.8	6397.2	6549.8	6585.7	6983.7	7534.2	8410.9
25°	8261.3	8297.2	8036.9	7603.0	7112.3	6771.2	6798.1	6840.0	7267.9	7806.5	8743.0
27.5°	9153.0	9197.8	8898.6	8419.9	7743.7	7184.1	7118.3	7154.2	7570.1	7974.1	8919.6
30°	10065.6	10098.5	9799.3	9251.7	8422.9	7650.9	7387.6	7408.5	7701.8	8054.8	9099.1
32.5°	11079.9	11053.0	10765.7	10134.4	9206.8	8210.4	7638.9	7633.0	7848.4	8216.4	9356.4
35°	12031.4	12070.3	11765.1	11067.9	10068.6	8901.6	8016.0	7992.0	8159.6	8479.7	9718.5
37.5°	13183.4	13171.4	12806.4	12052.4	10933.3	9562.9	8545.6	8503.7	8563.5	8889.7	10224.2
40°	14006.2	14090.0	13853.6	13150.5	11944.6	10376.8	9164.9	9072.2	9087.1	9395.3	10900.4
42.5°	14679.5	14757.3	14781.2	14332.4	13102.6	11382.1	9936.9	9844.2	9853.1	10290.0	11732.2
45°	15197.1	15301.8	15639.9	15508.3	14407.2	12543.1	10981.2	10885.4	10891.4	11376.1	12737.6
47.5°	15409.5	15523.2	16208.4	16522.6	15792.5	13931.4	12279.8	12139.1	12160.1	12695.7	13886.5
50°	15340.7	15493.3	16420.9	17303.6	16953.5	15343.7	13832.7	13733.9	13653.1	14431.1	15134.3
52.5°	14748.3	14915.8	16399.9	17800.3	17902.0	16678.2	15436.5	15379.6	15361.7	16274.3	16528.6
55°	13003.9	13285.1	15678.8	17931.9	18644.0	17934.9	17174.9	17079.2	17171.9	18249.1	17937.9
57.5°	12037.4	12246.8	14266.5	17785.3	19251.5	19131.8	18910.3	18919.3	19024.0	20394.4	19646.4
60°	11486.8	11732.2	13482.6	17384.4	19834.9	20585.9	20726.6	20726.6	20915.1	22707.4	21381.9
62.5°	10756.8	11005.1	12749.5	16612.4	20373.5	22297.5	23009.6	23000.6	23075.4	25187.9	23078.4
65°	9275.6	9506.0	11277.4	15394.6	20636.8	24182.5	25603.8	25576.8	25427.2	27396.1	24200.5
67.5°	6735.3	6953.7	8638.3	13078.7	19688.3	25702.5	28275.8	28287.7	27393.1	28787.4	24260.3
70°	4440.3	4589.9	5553.4	8494.7	16011.0	25047.2	29394.8	29430.7	27695.3	27919.7	21591.3
72.5°	2770.7	2875.4	3467.9	5065.7	9461.2	19825.9	26522.4	26621.1	24915.6	24535.6	17740.4
75°	1840.2	1912.0	2306.9	2953.2	4377.5	10729.8	20161.1	20478.2	19969.6	19233.5	12360.5
77.5°	1107.1	1166.9	1469.1	1876.1	1938.9	4192.0	11768.1	12587.9	12659.8	10041.6	5176.4
80°	505.7	574.5	810.9	1071.2	1032.3	1460.2	4150.1	4341.6	5122.5	3189.6	1633.7
82.5°	299.2	329.1	538.6	532.6	439.8	709.1	1493.1	1532.0	1301.6	1166.9	697.2
85°	119.7	140.6	227.4	200.5	161.6	230.4	562.5	589.5	565.5	508.7	257.3
87.5°	0.0	0.0	0.0	0.0	3.0	6.0	50.9	53.9	77.8	140.6	77.8
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°	6849.0	6849.0	6849.0	6849.0	6849.0	6849.0	6849.0	6849.0	6849.0	6849.0	6849.0
2.5°	6899.9	6881.9	6971.7	7040.5	7070.4	7100.4	7073.4	7064.5	7064.5	7004.6	6974.7
5°	6974.7	6983.7	7106.3	7163.2	7163.2	7139.3	7067.4	7016.6	6998.6	6920.8	6899.9
7.5°	7115.3	7154.2	7267.9	7264.9	7181.1	7049.5	6870.0	6732.3	6606.7	6552.8	6519.9
10°	7345.7	7396.6	7474.4	7348.7	7115.3	6768.2	6388.2	6089.0	5909.5	5765.9	5765.9
12.5°	7609.0	7656.9	7641.9	7351.7	6870.0	6220.7	5673.1	5329.0	5077.7	4946.0	4946.0
15°	7872.3	7911.2	7749.7	7214.1	6358.3	5493.6	4895.1	4482.2	4263.8	4141.1	4141.1
17.5°	8138.6	8135.6	7794.5	6896.9	5691.1	4688.7	4102.2	3782.1	3707.3	3686.3	3683.3
20°	8396.0	8327.1	7737.7	6367.3	4916.1	3877.8	3506.8	3527.7	3638.4	3686.3	3692.3
22.5°	8686.2	8515.6	7570.1	5691.1	4036.4	3315.3	3339.2	3512.8	3674.4	3746.2	3755.1
25°	8982.4	8677.2	7288.9	4898.1	3300.3	3108.8	3294.3	3488.8	3671.4	3764.1	3773.1
27.5°	9102.1	8677.2	6810.1	3979.6	2908.4	3022.1	3225.5	3414.0	3605.5	3713.2	3734.2
30°	9200.8	8602.4	6139.9	3150.7	2746.8	2938.3	3114.8	3288.4	3476.9	3608.5	3632.5
32.5°	9338.5	8536.6	5329.0	2648.0	2672.0	2857.5	2980.2	3126.8	3297.3	3384.1	3375.1
35°	9500.1	8434.9	4350.6	2408.7	2609.1	2788.7	2875.4	2962.2	2884.4	2881.4	2890.4
37.5°	9730.5	8345.1	3497.8	2301.0	2567.3	2740.8	2812.6	2627.1	2519.4	2474.5	2456.5
40°	10062.6	8309.2	2758.8	2238.1	2561.3	2737.8	2686.9	2399.7	2253.1	2097.5	2094.5
42.5°	10481.5	8282.3	2280.0	2208.2	2582.2	2806.6	2513.4	2250.1	1947.9	1879.1	1873.1
45°	11020.1	8240.4	2040.6	2202.2	2633.1	2860.5	2495.4	2043.6	1837.2	1807.3	1807.3
47.5°	11669.4	8174.5	1932.9	2202.2	2689.9	2836.6	2441.6	1998.8	1786.3	1819.2	1840.2
50°	12414.4	8090.8	1876.1	2196.2	2746.8	2836.6	2327.9	1989.8	1774.3	1944.9	2013.7
52.5°	13210.3	7995.0	1837.2	2172.3	2785.7	2839.5	2333.9	2019.7	1786.3	1974.8	2031.7
55°	14090.0	7980.0	1783.3	2121.4	2797.7	2761.7	2348.8	2085.5	1804.3	1789.3	1792.3
57.5°	15200.1	8159.6	1744.4	2046.6	2749.8	2603.2	2378.8	2133.4	1783.3	1786.3	1807.3
60°	16361.0	8497.7	1777.3	1974.8	2651.0	2453.6	2399.7	2109.5	1681.6	1633.7	1639.7
62.5°	17348.4	8755.0	1804.3	1941.9	2507.4	2321.9	2378.8	2055.6	1624.7	1612.8	1639.7
65°	17761.4	8542.6	1738.4	1873.1	2298.0	2160.3	2333.9	1986.8	1576.9	1532.0	1535.0
67.5°	17303.6	7546.2	1609.8	1720.5	2061.6	1953.9	2262.1	1897.0	1511.0	1457.2	1445.2
70°	14781.2	5544.4	1388.4	1478.1	1774.3	1711.5	2151.4	1780.3	1406.3	1367.4	1340.5
72.5°	11911.7	3925.7	1152.0	1175.9	1391.3	1442.2	1959.9	1633.7	1286.6	1175.9	1137.0
75°	8291.2	2465.5	960.5	936.5	1005.4	1101.1	1529.0	1355.4	1110.1	993.4	957.5
77.5°	3566.6	1265.7	751.0	739.1	670.2	763.0	1172.9	1131.0	930.6	795.9	775.0
80°	1193.9	733.1	541.6	520.6	445.8	535.6	825.8	903.6	730.1	589.5	553.5
82.5°	598.4	424.9	344.1	311.2	299.2	338.1	487.7	562.5	505.7	406.9	344.1
85°	293.2	242.4	188.5	185.5	155.6	146.6	203.5	239.4	227.4	167.6	158.6
87.5°	107.7	95.7	59.8	47.9	29.9	20.9	12.0	12.0	9.0	9.0	9.0
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)