

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: P643800

Luminaire Tested: GWS-SA6F-760-U-AFL-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P643800
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-45)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA6F-760-U-AFL-W
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND
AUTOMOTIVE FRONTLINE OPTICS
Light Source: (96) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 51132.5 lumens
Efficiency: N/A
Efficacy: 137.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

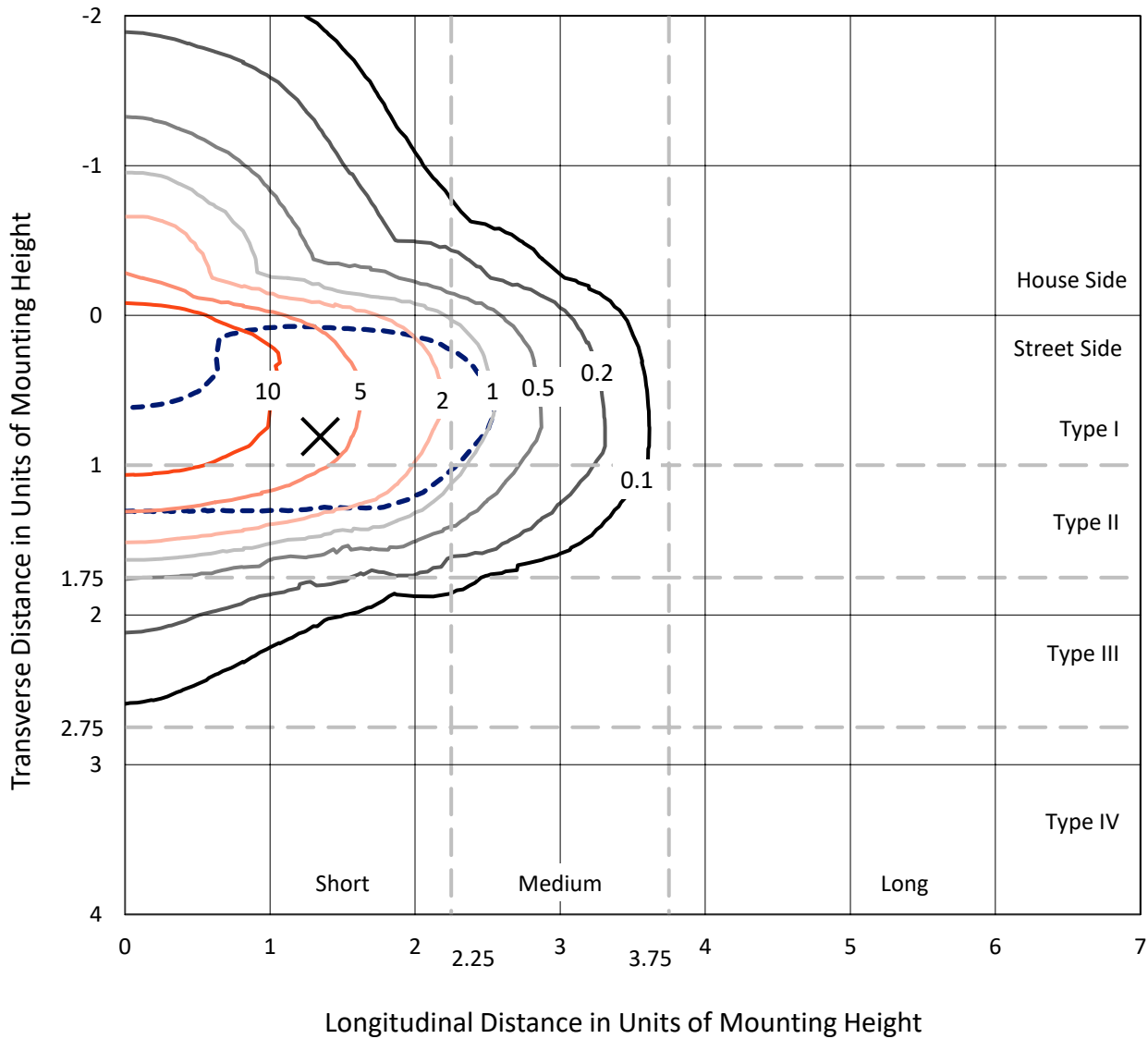
Input Watts (W): 372.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

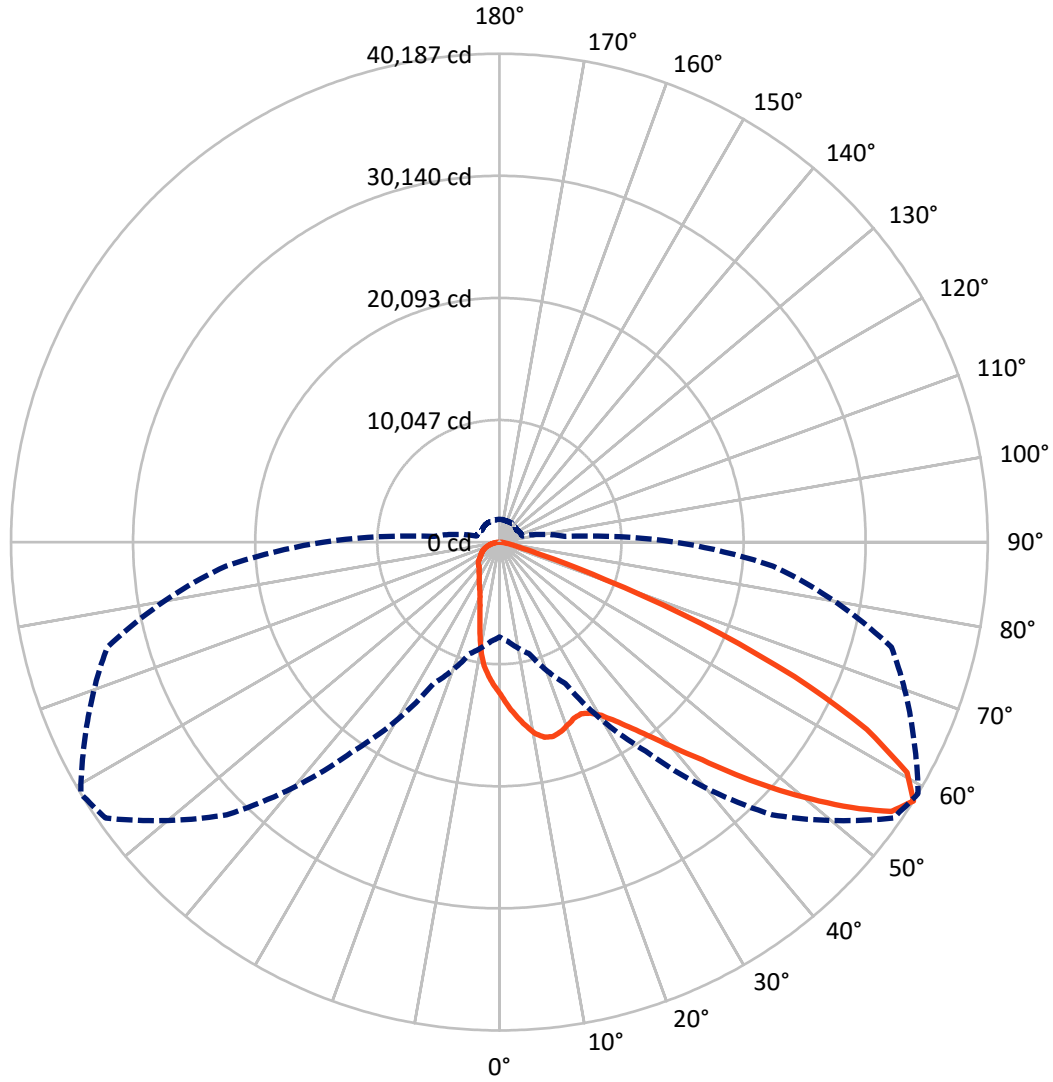
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 17.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7935.5	0.0	7935.5
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	43197.0	0.0	43197.0
	% Fixture	84.5	0.0	84.5
Total	Lumens	51132.5	0.0	51132.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1165.5	2.3
10°-20°	2953.3	5.8
20°-30°	4787.4	9.4
30°-40°	7701.1	15.1
40°-50°	11959.1	23.4
50°-60°	12881.5	25.2
60°-70°	7475.9	14.6
70°-80°	1951.6	3.8
80°-90°	257.1	0.5
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°	51132.5	100.0
0°-180°	51132.5	100.0

Coefficient of Utilization



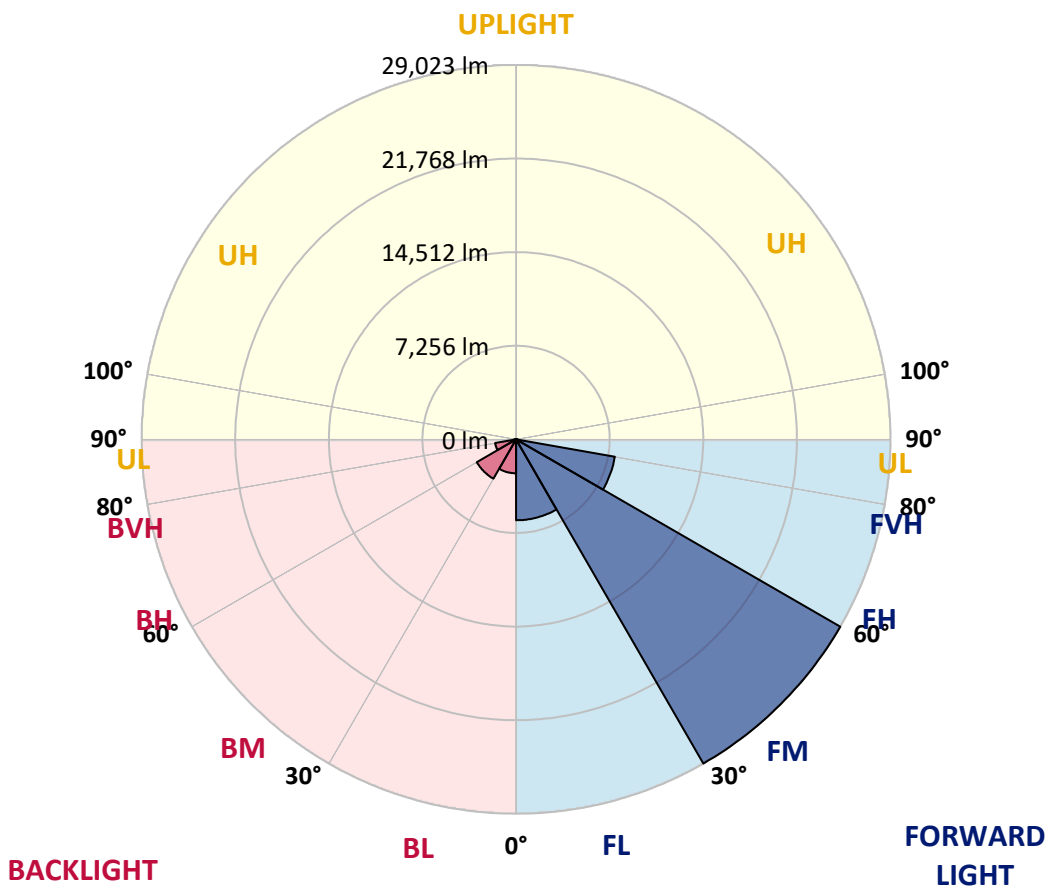
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6273.5	12.3			
FM (30°-60°)	29023.4	56.8			
FH (60°-80°)	7777.0	15.2			G4/12000
FVH (80°-90°)	123.1	0.2			G2/225
BL (0°-30°)	2632.7	5.1	B4/5000		
BM (30°-60°)	3518.3	6.9	B3/5000		
BH (60°-80°)	1650.5	3.2	B3/2500		G3/2500
BVH (80°-90°)	134.0	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	12552.0	12552.0	12552.0	12552.0	12552.0	12552.0	12552.0	12552.0	12552.0	12552.0	12552.0
2.5°	14236.6	14117.9	14200.6	14053.1	13991.9	13829.9	13621.1	13480.7	13264.7	12984.0	12739.2
5°	15651.3	15568.5	15586.5	15428.1	15287.7	15017.8	14589.4	14351.8	13984.7	13419.5	12894.0
7.5°	15608.1	15705.3	15759.3	15896.1	15935.7	15910.5	15525.3	15194.2	14791.0	13941.5	13149.5
10°	13991.9	14175.5	14341.0	14809.0	15377.7	16097.7	16187.7	15989.7	15582.9	14607.4	13455.5
12.5°	12231.6	12372.0	12519.6	13081.2	13952.3	15392.1	16367.6	16490.0	16328.0	15266.1	13801.1
15°	11367.7	11432.5	11572.9	11943.7	12638.4	14236.6	16054.5	16590.8	16882.4	15964.5	14189.9
17.5°	11331.7	11360.5	11428.9	11626.9	12109.2	13343.9	15489.3	16389.2	17318.0	16702.4	14643.4
20°	12076.9	12001.3	11958.1	11954.5	12192.0	13045.2	14942.2	16065.3	17523.1	17458.3	15129.4
22.5°	13110.0	13135.2	13041.6	12811.2	12782.4	13257.5	14668.6	15737.7	17584.3	18127.9	15579.3
25°	14575.0	14701.0	14423.8	13984.7	13768.7	13873.1	14837.8	15636.9	17577.1	18685.8	15860.1
27.5°	16284.9	16382.0	16101.3	15525.3	15079.0	14827.0	15341.7	15935.7	17638.3	19168.2	16029.3
30°	18232.3	18264.7	17879.5	17274.8	16623.2	16083.3	16180.5	16551.2	17951.5	19801.7	16227.3
32.5°	20611.6	20748.4	20165.3	19207.8	18297.1	17605.9	17307.2	17544.7	18628.2	20550.4	16533.2
35°	23631.8	23678.5	22937.0	21565.5	20276.9	19319.4	18693.0	18819.0	19657.7	21597.9	16994.0
37.5°	26479.1	26525.9	25737.6	24463.3	22620.2	21310.0	20402.9	20345.3	20975.2	23077.4	17746.3
40°	28286.1	28419.3	28066.5	27267.4	25507.2	23739.7	22508.7	22310.7	22703.0	24888.0	18793.8
42.5°	29258.0	29315.6	29308.4	29412.8	28365.3	26608.7	24884.4	24488.5	24751.2	26842.6	19852.1
45°	29265.2	29409.2	29794.4	30798.7	30845.5	29751.2	27886.5	27267.4	27026.2	28811.7	20957.2
47.5°	27954.9	28109.7	29168.0	31144.2	32602.1	32850.5	31482.6	30240.7	29225.6	30507.1	21864.3
50°	23988.1	24376.9	26392.7	29888.0	32947.7	35334.2	34913.1	33228.4	31180.2	31817.4	22433.1
52.5°	20543.2	20528.8	21770.7	26338.7	31504.2	36428.5	38232.0	36302.5	33113.3	32648.9	22577.1
55°	15043.0	15125.8	16396.4	20143.7	27652.6	35370.2	40057.0	39131.9	35330.6	33091.7	22519.5
57.5°	7800.5	8210.8	9513.9	12854.4	21011.2	31727.4	39571.0	40186.6	37584.0	33404.8	22595.1
60°	3941.6	3862.4	4330.4	6137.4	12174.0	24780.0	36576.1	38537.9	37990.8	33649.6	22641.8
62.5°	2631.3	2609.8	2480.2	2843.7	4974.7	14675.8	31180.2	33930.4	35165.1	33073.7	22044.3
65°	2278.6	2235.4	1997.8	1983.4	2415.4	6087.0	22854.2	26673.5	29063.6	30514.3	20615.2
67.5°	2051.8	1987.0	1745.8	1627.0	1735.0	2674.5	12879.6	17890.3	21461.2	25805.9	17483.5
70°	1832.2	1799.8	1558.7	1385.9	1375.1	1630.6	4744.3	9233.1	13131.6	17605.9	12782.4
72.5°	1641.4	1583.8	1378.7	1213.1	1130.3	1155.5	2059.0	3556.5	6796.2	10982.6	7645.7
75°	1421.9	1378.7	1198.7	1033.1	932.3	845.9	1256.3	1645.0	3099.3	5219.5	3610.5
77.5°	1097.9	1069.1	946.7	820.7	763.1	629.9	763.1	1036.7	1432.7	2199.4	1879.0
80°	637.1	655.1	705.5	640.7	561.5	450.0	496.8	597.5	860.3	1191.5	1065.5
82.5°	320.4	342.0	457.2	370.8	334.8	262.8	295.2	352.8	450.0	658.7	417.6
85°	25.2	25.2	82.8	93.6	115.2	93.6	118.8	144.0	205.2	262.8	140.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	10.8	18.0	32.4	61.2	39.6
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°	12552.0	12552.0	12552.0	12552.0	12552.0	12552.0	12552.0	12552.0	12552.0	12552.0	12552.0
2.5°	12573.6	12390.0	12170.4	11990.5	11713.3	11565.7	11378.5	11148.1	11054.5	11011.4	10986.2
5°	12598.8	12274.8	11806.9	11374.9	10896.2	10518.2	10097.0	9657.9	9405.9	9344.7	9301.5
7.5°	12692.4	12238.8	11493.7	10781.0	9891.9	9067.5	8264.8	7469.3	7062.5	6907.7	6893.3
10°	12822.0	12224.4	11176.9	9992.6	8491.6	7188.5	6249.0	5626.3	5363.5	5277.1	5248.3
12.5°	12984.0	12213.6	10759.4	8898.4	6875.3	5644.3	5107.9	5007.1	5043.1	5035.9	5035.9
15°	13189.1	12228.0	10255.4	7660.1	5561.5	4899.1	4909.9	5028.7	5140.3	5158.3	5158.3
17.5°	13412.3	12213.6	9524.7	6418.2	4773.1	4722.8	4888.3	5053.9	5154.7	5169.1	5169.1
20°	13653.5	12145.2	8603.2	5248.3	4427.6	4611.2	4791.1	4920.7	4981.9	4996.3	4996.3
22.5°	13797.5	11950.9	7602.5	4442.0	4208.0	4434.8	4553.6	4686.8	4694.0	4578.8	4575.2
25°	13775.9	11587.3	6461.4	3923.6	3974.0	4172.0	4323.2	4229.6	4114.4	4049.6	4038.8
27.5°	13639.1	11040.2	5298.7	3531.3	3696.8	3920.0	3873.2	3794.0	3765.2	3693.2	3686.0
30°	13466.3	10367.0	4254.8	3225.3	3408.9	3614.1	3542.1	3534.9	3506.1	3426.9	3426.9
32.5°	13300.7	9672.3	3466.5	2998.5	3225.3	3239.7	3340.5	3347.7	3333.3	3196.5	3182.1
35°	13253.9	8977.5	2933.7	2818.5	3045.3	3038.1	3182.1	3178.5	2930.1	2739.3	2735.7
37.5°	13394.3	8272.0	2617.0	2670.9	2796.9	2890.5	3005.7	2796.9	2714.1	2599.0	2591.8
40°	13693.1	7620.5	2455.0	2584.6	2638.5	2775.3	2595.4	2609.8	2588.2	2501.8	2491.0
42.5°	14089.1	7066.1	2365.0	2555.8	2548.6	2584.6	2386.6	2444.2	2476.6	2411.8	2401.0
45°	14470.6	6583.8	2318.2	2447.8	2483.8	2275.0	2235.4	2289.4	2339.8	2314.6	2303.8
47.5°	14751.4	6166.2	2293.0	2300.2	2401.0	2170.6	2105.8	2131.0	2192.2	2203.0	2199.4
50°	14837.8	5809.8	2264.2	2177.8	2156.2	2066.2	2015.8	2008.6	2080.6	2131.0	2138.2
52.5°	14672.2	5493.1	2188.6	2069.8	1965.4	1979.8	1961.8	1925.8	1997.8	2066.2	2073.4
55°	14427.4	5313.1	2069.8	1965.4	1843.0	1900.6	1907.8	1875.4	1922.2	1969.0	1969.0
57.5°	14445.4	5417.5	1954.6	1868.2	1735.0	1810.6	1850.2	1835.8	1835.8	1871.8	1875.4
60°	14564.2	5568.7	1879.0	1745.8	1627.0	1706.2	1796.2	1781.8	1749.4	1796.2	1796.2
62.5°	14222.2	5367.1	1828.6	1627.0	1511.9	1605.4	1713.4	1706.2	1670.2	1745.8	1753.0
65°	13214.3	4827.1	1771.0	1479.5	1396.7	1504.7	1598.2	1623.4	1591.0	1691.8	1709.8
67.5°	11076.1	4060.4	1659.4	1339.1	1281.5	1382.3	1472.3	1508.3	1483.1	1601.8	1616.2
70°	8257.6	3286.5	1483.1	1184.3	1141.1	1231.1	1313.9	1328.3	1331.9	1472.3	1486.7
72.5°	5266.3	2555.8	1249.1	1011.5	979.1	1047.5	1108.7	1166.3	1191.5	1324.7	1321.1
75°	2937.3	1900.6	1004.3	856.7	799.1	853.1	925.1	993.5	1065.5	1259.9	1281.5
77.5°	1691.8	1335.5	795.5	687.5	619.1	676.7	737.9	835.1	1051.1	1220.3	1198.7
80°	953.9	867.5	601.1	504.0	460.8	504.0	550.7	734.3	827.9	899.9	910.7
82.5°	446.4	486.0	410.4	309.6	309.6	338.4	381.6	568.7	626.3	511.2	446.4
85°	162.0	219.6	201.6	158.4	140.4	136.8	237.6	324.0	201.6	180.0	154.8
87.5°	43.2	61.2	57.6	39.6	21.6	18.0	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)