

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: P641021

Luminaire Tested: GWS-SA5F-722-U-T2-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P641021
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-SA5F-722-U-T2-W
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: (80) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30503 lumens
Efficiency: N/A
Efficacy: 98.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

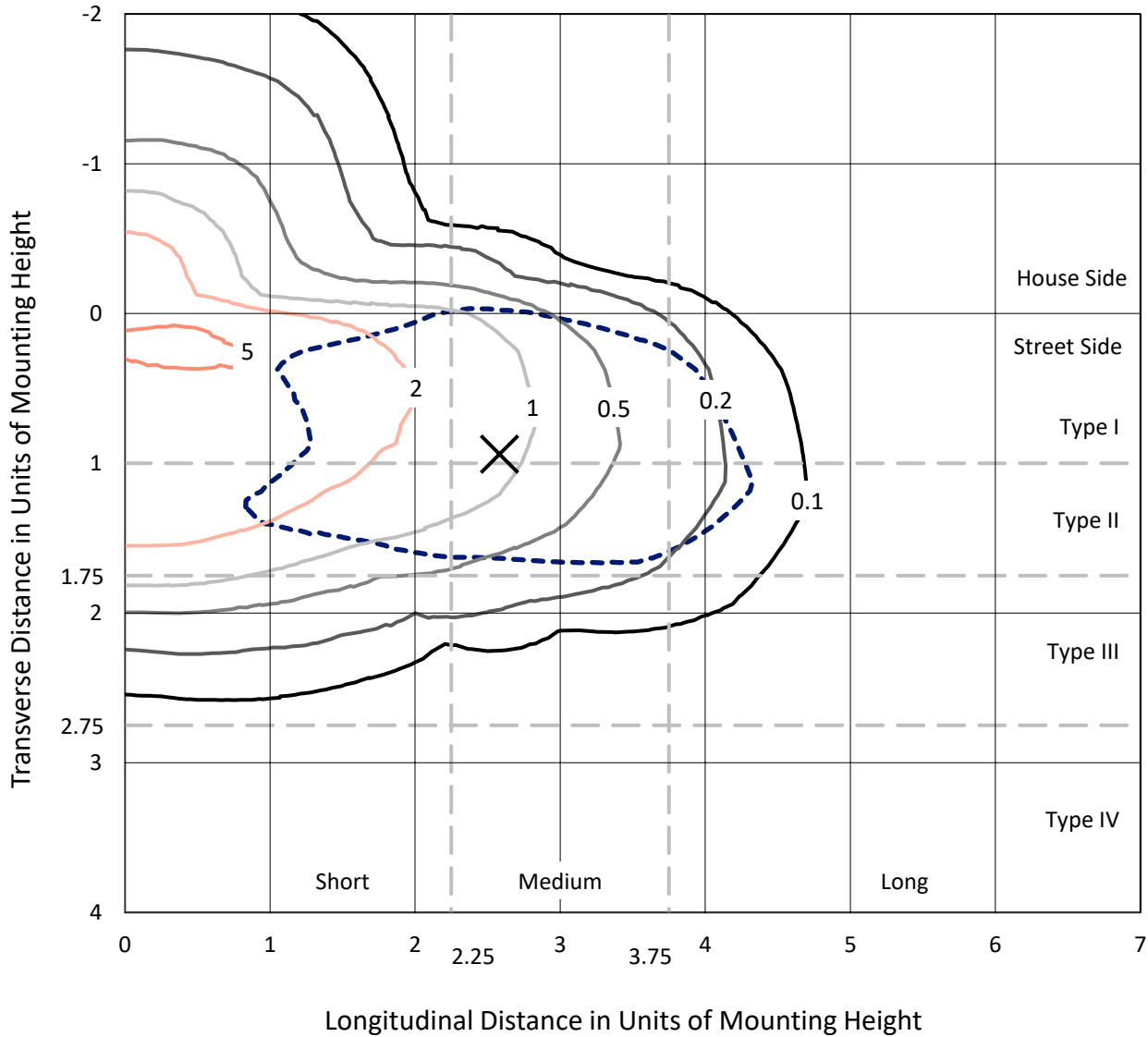
Input Watts (W): 310.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

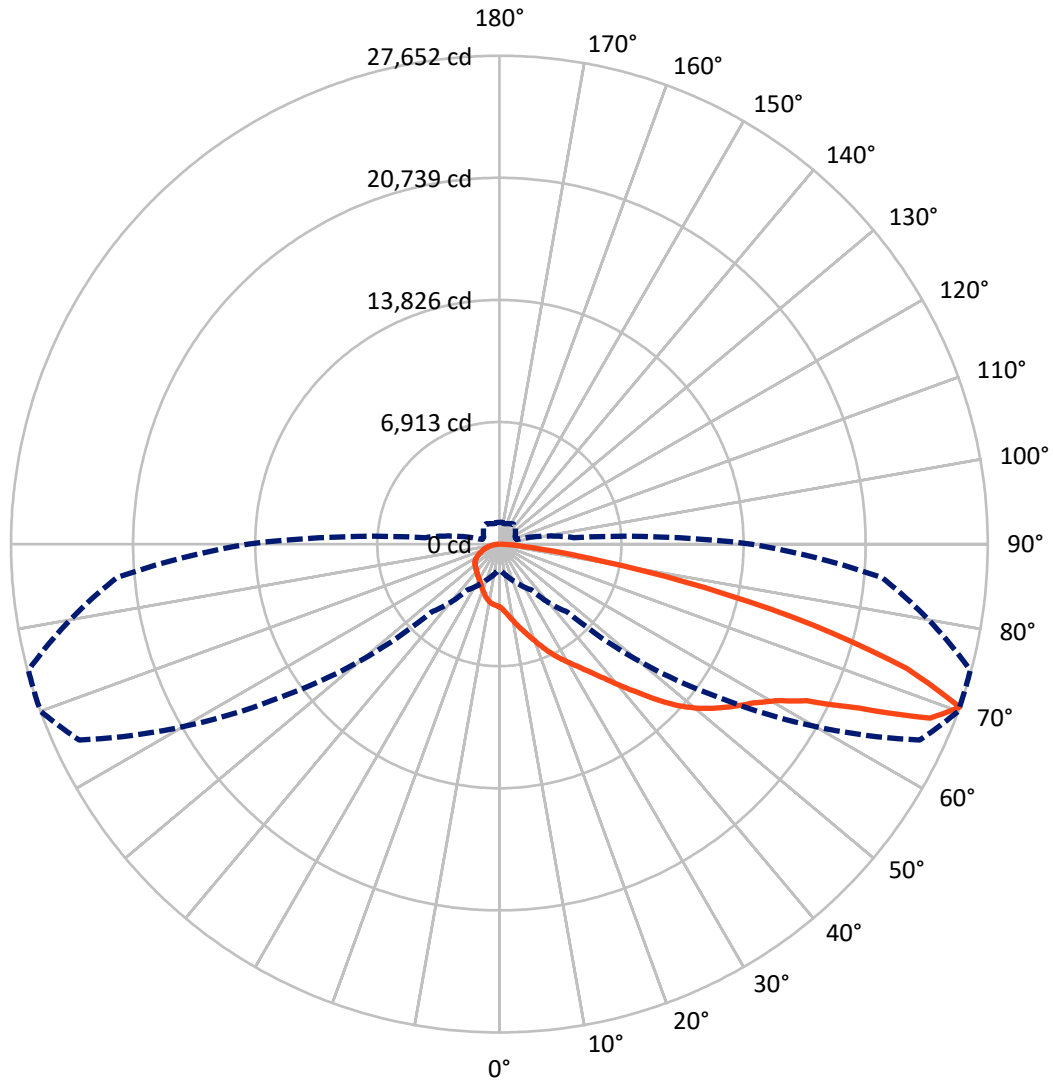
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 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	5466.2	0.0	5466.2
	% Fixture	17.9	0.0	17.9
Street Side	Lumens	25036.8	0.0	25036.8
	% Fixture	82.1	0.0	82.1
Total	Lumens	30503.0	0.0	30503.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	361.6	1.2
10°-20°	1176.2	3.9
20°-30°	2083.6	6.8
30°-40°	3135.8	10.3
40°-50°	4744.1	15.6
50°-60°	6796.2	22.3
60°-70°	7512.5	24.6
70°-80°	4239.5	13.9
80°-90°	453.5	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°	30503.0	100.0
0°-180°	30503.0	100.0

Coefficient of Utilization



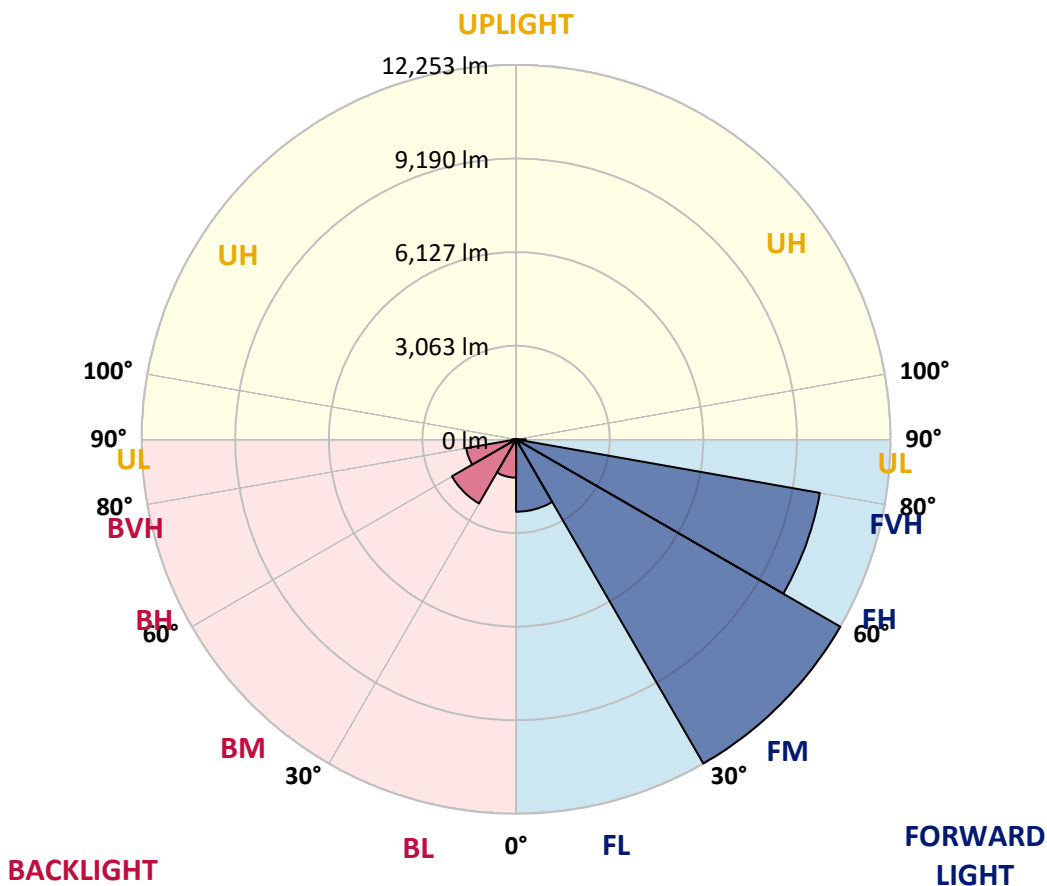
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2368.0	7.8			
FM (30°-60°)	12253.0	40.2			
FH (60°-80°)	10095.2	33.1			G4/12000
FVH (80°-90°)	320.6	1.1			G3/500
BL (0°-30°)	1253.3	4.1	B3/2500		
BM (30°-60°)	2423.2	7.9	B2/2500		
BH (60°-80°)	1656.8	5.4	B3/2500		G3/2500
BVH (80°-90°)	132.9	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°	3557.3	3557.3	3557.3	3557.3	3557.3	3557.3	3557.3	3557.3	3557.3	3557.3	3557.3
2.5°	3940.8	3934.2	3938.6	3934.2	3909.9	3850.4	3801.9	3740.2	3698.3	3674.1	3616.8
5°	4403.6	4397.0	4381.6	4359.5	4315.5	4233.9	4112.7	3978.2	3896.7	3835.0	3713.8
7.5°	4736.4	4736.4	4734.2	4707.8	4676.9	4591.0	4447.7	4271.4	4152.4	4046.6	3848.2
10°	4906.1	4917.2	4932.6	4970.1	4963.4	4917.2	4782.7	4593.2	4443.3	4319.9	4024.5
12.5°	4998.7	5005.3	5031.8	5108.9	5188.3	5199.3	5119.9	4921.6	4758.5	4593.2	4220.7
15°	5117.7	5119.9	5155.2	5247.8	5364.6	5481.4	5461.6	5263.2	5095.7	4912.8	4438.9
17.5°	5210.3	5225.7	5289.6	5397.6	5543.1	5704.0	5801.0	5677.5	5470.4	5261.0	4676.9
20°	5243.4	5254.4	5338.1	5503.4	5701.8	5928.8	6144.8	6111.7	5902.4	5655.5	4945.8
22.5°	5362.4	5362.4	5424.1	5562.9	5796.6	6127.2	6477.6	6563.6	6378.4	6089.7	5234.5
25°	5624.6	5615.8	5644.5	5701.8	5878.1	6285.9	6806.0	7063.9	6856.7	6532.7	5523.3
27.5°	5983.9	5979.5	5977.3	5986.1	6045.6	6424.7	7083.7	7531.1	7323.9	6958.1	5781.1
30°	6374.0	6360.8	6389.4	6363.0	6349.8	6590.0	7319.5	7949.9	7789.0	7379.0	5994.9
32.5°	6905.2	6880.9	6874.3	6788.4	6735.5	6847.9	7509.1	8426.0	8298.1	7833.1	6235.2
35°	7606.1	7584.0	7471.6	7335.0	7178.5	7231.4	7744.9	8891.0	8899.8	8401.7	6550.3
37.5°	8313.5	8318.0	8229.8	7908.0	7747.1	7716.3	8104.2	9457.4	9647.0	9080.5	6958.1
40°	8902.0	8928.5	8928.5	8589.0	8348.8	8320.2	8608.9	10129.7	10506.5	9913.7	7473.8
42.5°	9349.4	9373.7	9450.8	9206.2	8952.7	9051.9	9221.6	10804.1	11480.7	10942.9	8126.2
45°	9840.9	9860.8	9902.6	9761.6	9613.9	9878.4	9915.9	11610.8	12596.0	12097.8	8884.4
47.5°	10493.3	10475.7	10480.1	10376.5	10261.9	10689.5	10680.7	12289.6	13673.7	13362.9	9706.5
50°	11304.4	11337.5	11306.6	11101.6	10967.2	11357.3	11408.0	13041.2	14621.4	14614.8	10535.2
52.5°	12084.6	12097.8	12260.9	12269.8	11994.3	11912.7	12044.9	13799.3	15421.5	15760.9	11330.8
55°	12124.3	12175.0	12664.3	13016.9	13462.1	12807.5	12688.5	14522.3	16195.1	16882.8	12157.4
57.5°	11280.2	11361.7	12192.6	12953.0	14191.7	14343.7	13790.5	15456.8	16968.7	17987.0	13113.9
60°	9477.3	9647.0	10775.4	11939.2	13863.3	15447.9	16045.2	16726.3	17984.8	19115.4	14275.4
62.5°	6052.2	6118.3	7700.8	9649.2	12384.4	15339.9	18500.5	18963.4	19532.0	20585.5	16065.1
65°	3030.5	3242.1	4170.0	5759.1	8930.7	13517.2	19741.4	23060.6	22364.1	23102.5	18965.6
67.5°	2056.3	2124.7	2594.1	3460.3	5236.7	9576.4	18972.2	26512.1	26307.1	26428.4	22057.8
70°	1516.4	1560.4	1930.7	2450.9	3167.2	5437.3	15104.1	26252.0	27651.6	27607.5	21733.8
72.5°	1106.4	1128.5	1408.4	1871.2	2347.3	2812.3	9223.8	21207.0	24138.4	25410.1	19007.4
75°	804.5	830.9	978.6	1399.6	1824.9	1754.4	4553.5	15317.9	18407.9	20854.4	15485.4
77.5°	599.5	632.6	700.9	877.2	1278.3	1256.3	1968.2	9946.7	11906.1	13620.8	9406.7
80°	432.0	438.6	478.3	562.0	811.1	736.1	936.7	5186.0	5946.4	6515.1	3687.3
82.5°	262.3	268.9	319.6	346.0	502.5	462.8	487.1	1679.5	2406.8	2554.5	1377.5
85°	77.1	81.5	145.5	158.7	209.4	198.4	196.2	683.2	815.5	1042.5	542.2
87.5°	0.0	0.0	0.0	0.0	2.2	13.2	24.2	121.2	182.9	253.5	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°	3557.3	3557.3	3557.3	3557.3	3557.3	3557.3	3557.3	3557.3	3557.3	3557.3	3557.3
2.5°	3594.7	3544.1	3517.6	3471.3	3438.3	3405.2	3372.1	3341.3	3328.1	3308.2	3312.6
5°	3658.7	3579.3	3500.0	3409.6	3332.5	3268.6	3211.3	3160.6	3138.5	3118.7	3127.5
7.5°	3755.6	3636.6	3484.5	3319.2	3198.0	3109.9	3050.4	3015.1	3004.1	2988.6	2988.6
10°	3879.1	3700.5	3433.9	3198.0	3052.6	2982.0	2955.6	2953.4	2964.4	2966.6	2962.2
12.5°	4015.7	3762.3	3358.9	3054.8	2931.3	2909.3	2929.1	2966.6	3004.1	3023.9	3019.5
15°	4156.8	3801.9	3231.1	2918.1	2843.2	2871.8	2935.7	3010.7	3083.4	3120.9	3118.7
17.5°	4289.0	3810.7	3065.8	2785.9	2766.0	2838.8	2949.0	3065.8	3165.0	3217.9	3220.1
20°	4436.7	3795.3	2896.1	2666.9	2688.9	2807.9	2953.4	3094.4	3211.3	3264.1	3277.4
22.5°	4571.1	3742.4	2730.8	2554.5	2622.8	2770.4	2918.1	3050.4	3153.9	3204.6	3222.3
25°	4692.3	3641.0	2550.0	2459.7	2572.1	2717.6	2830.0	2922.5	2995.3	3026.1	3050.4
27.5°	4758.5	3489.0	2413.4	2384.7	2523.6	2642.6	2704.3	2733.0	2757.2	2748.4	2766.0
30°	4771.7	3299.4	2294.4	2325.2	2450.9	2539.0	2552.3	2523.6	2481.7	2413.4	2428.8
32.5°	4758.5	3081.2	2195.2	2261.3	2369.3	2422.2	2404.6	2329.6	2228.3	2122.5	2129.1
35°	4762.9	2860.8	2113.7	2190.8	2274.5	2303.2	2259.1	2155.5	2047.5	1950.6	1946.1
37.5°	4811.4	2675.7	2045.3	2122.5	2182.0	2186.4	2137.9	2029.9	1974.8	1902.1	1893.2
40°	4945.8	2539.0	1983.6	2054.1	2091.6	2089.4	2034.3	1957.2	1994.6	1970.4	1963.8
42.5°	5166.2	2455.3	1932.9	1981.4	2007.9	2012.3	1968.2	1919.7	2001.2	1970.4	1959.4
45°	5521.1	2450.9	1897.7	1908.7	1950.6	1981.4	1950.6	1895.5	1926.3	1776.4	1747.8
47.5°	5942.0	2525.8	1871.2	1844.8	1917.5	1972.6	1924.1	1835.9	1772.0	1635.4	1615.5
50°	6449.0	2677.9	1847.0	1776.4	1869.0	1939.5	1891.0	1769.8	1672.8	1600.1	1589.1
52.5°	7050.6	2878.4	1816.1	1699.3	1796.3	1921.9	1891.0	1763.2	1635.4	1569.3	1558.2
55°	7681.0	3109.9	1780.8	1606.7	1714.7	1926.3	1906.5	1716.9	1606.7	1571.5	1562.6
57.5°	8463.4	3387.6	1716.9	1498.7	1642.0	1886.6	1844.8	1690.5	1586.9	1558.2	1549.4
60°	9479.5	3799.7	1595.7	1388.5	1558.2	1816.1	1789.7	1646.4	1534.0	1509.8	1503.1
62.5°	11088.4	4498.4	1448.0	1282.7	1459.1	1668.4	1708.1	1562.6	1467.9	1465.7	1463.5
65°	13711.2	5338.1	1273.9	1188.0	1355.5	1547.2	1600.1	1476.7	1399.6	1423.8	1421.6
67.5°	15549.3	5410.9	1130.7	1088.8	1234.2	1415.0	1492.1	1388.5	1304.8	1351.1	1348.9
70°	14242.3	4220.7	1007.2	985.2	1104.2	1271.7	1375.3	1278.3	1194.6	1238.7	1229.8
72.5°	12011.9	3235.5	890.4	877.2	972.0	1121.8	1225.4	1168.1	1080.0	1080.0	1060.1
75°	9653.6	2669.1	767.0	760.4	824.3	969.8	1086.6	989.6	908.1	903.6	890.4
77.5°	5536.5	1750.0	643.6	639.2	659.0	811.1	844.1	824.3	762.6	733.9	725.1
80°	2206.2	910.3	506.9	478.3	498.1	595.1	665.6	632.6	579.7	544.4	524.6
82.5°	855.2	456.2	357.1	313.0	341.6	429.8	482.7	471.7	436.4	357.1	335.0
85°	348.2	222.6	213.8	180.7	198.4	231.4	277.7	240.2	198.4	141.1	134.4
87.5°	92.6	81.5	79.3	48.5	37.5	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)