

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: P638381

Luminaire Tested: GWS-SA4E-760-U-T2-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638381
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-SA4E-760-U-T2-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: (64) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30632.5 lumens
Efficiency: N/A
Efficacy: 151.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

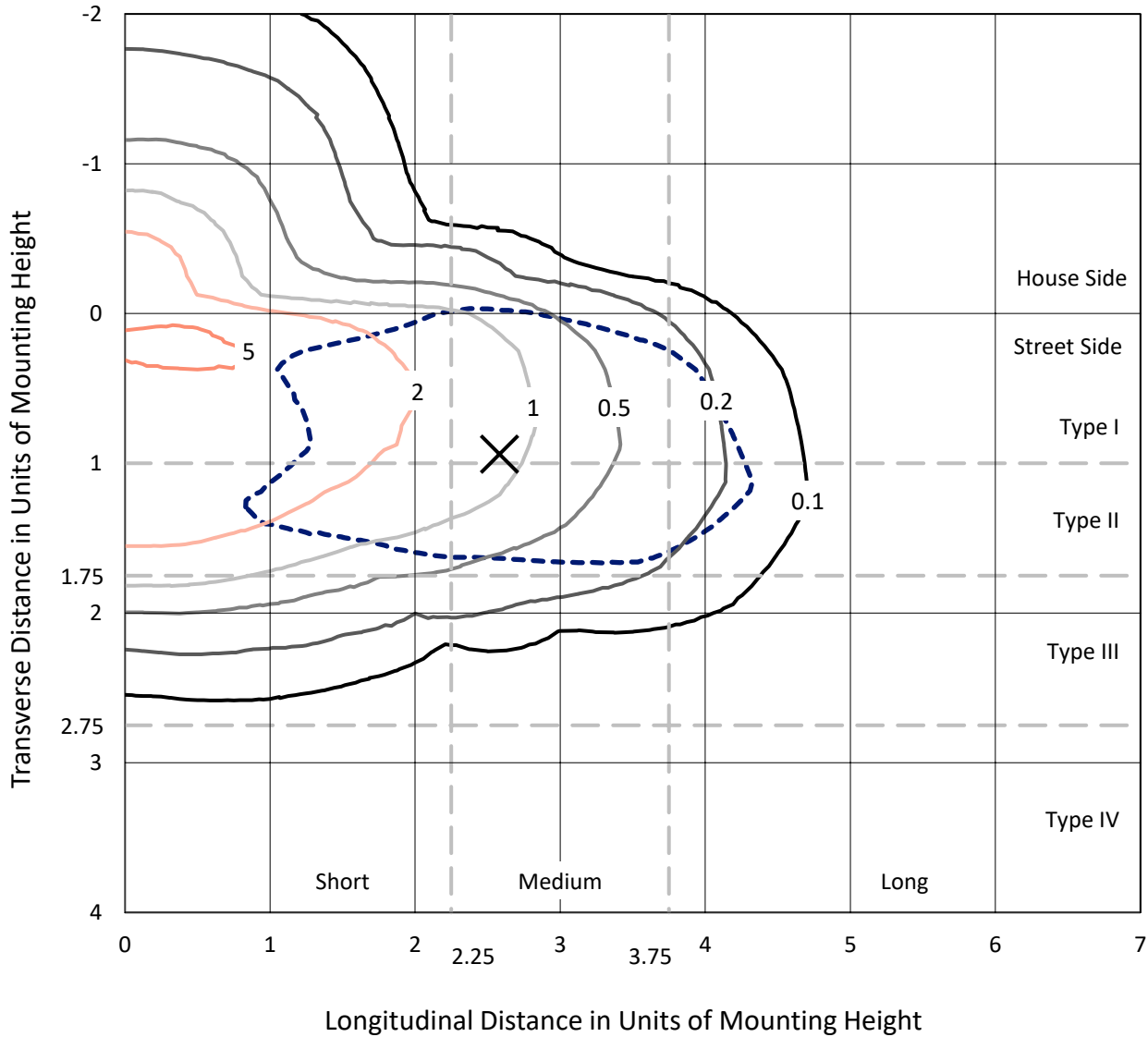
Input Watts (W): 202.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

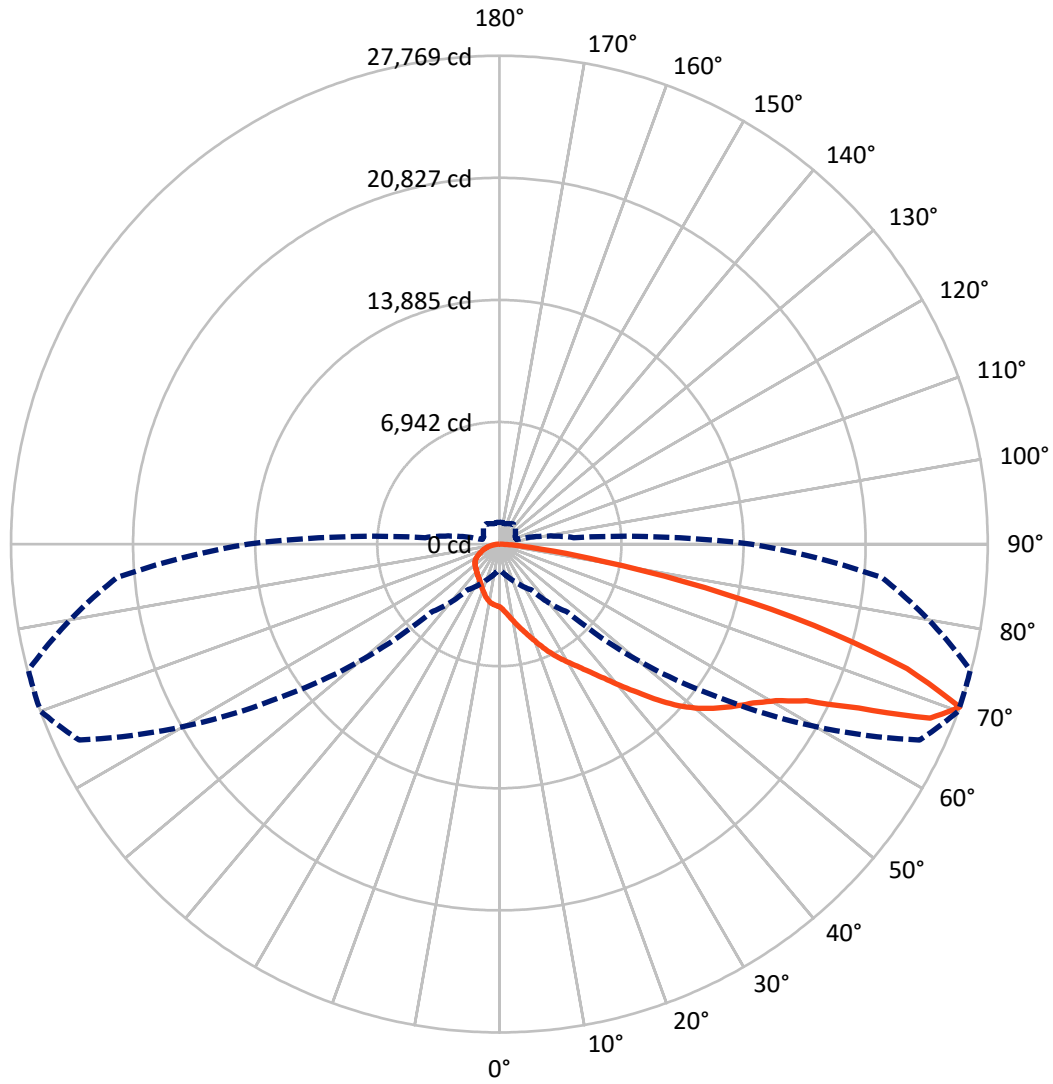
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 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	5489.4	0.0	5489.4
	% Fixture	17.9	0.0	17.9
Street Side	Lumens	25143.1	0.0	25143.1
	% Fixture	82.1	0.0	82.1
Total	Lumens	30632.5	0.0	30632.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	363.1	1.2
10°-20°	1181.1	3.9
20°-30°	2092.4	6.8
30°-40°	3149.2	10.3
40°-50°	4764.3	15.6
50°-60°	6825.1	22.3
60°-70°	7544.4	24.6
70°-80°	4257.5	13.9
80°-90°	455.4	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°	30632.5	100.0
0°-180°	30632.5	100.0

Coefficient of Utilization



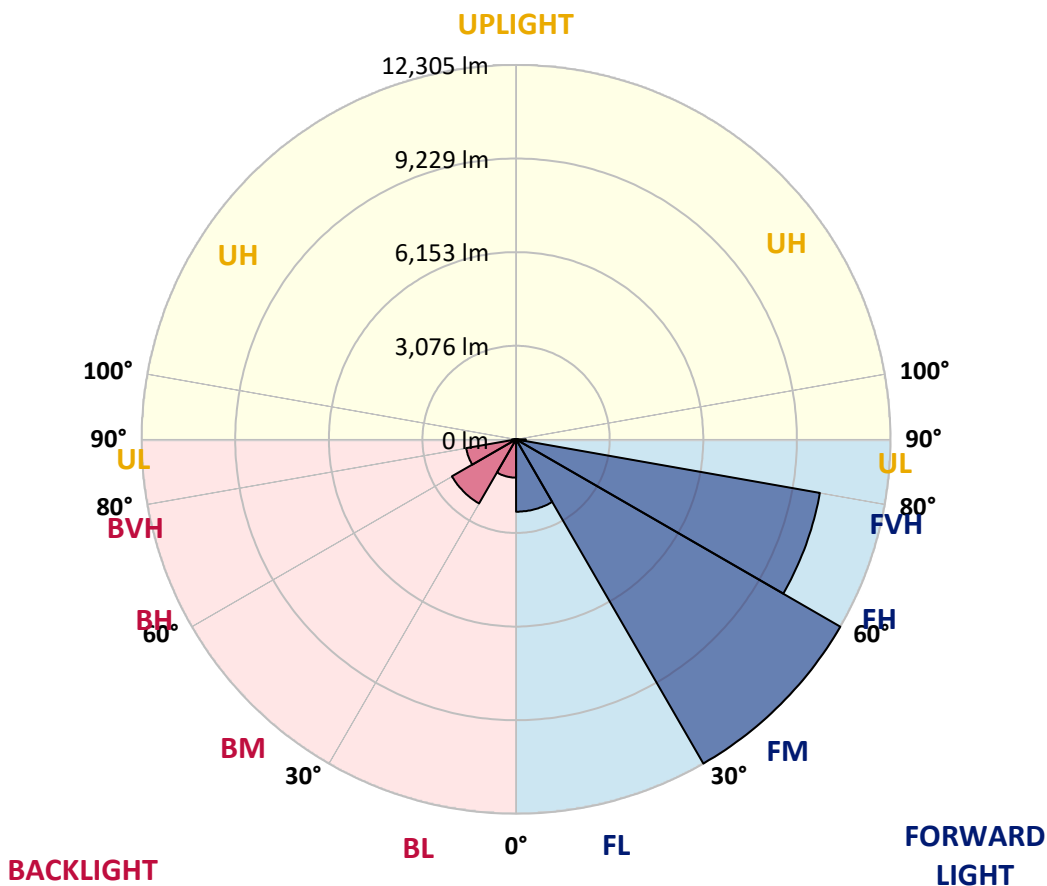
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2378.0	7.8			
FM (30°-60°)	12305.1	40.2			
FH (60°-80°)	10138.1	33.1			G4/12000
FVH (80°-90°)	321.9	1.1			G3/500
BL (0°-30°)	1258.6	4.1	B3/2500		
BM (30°-60°)	2433.5	7.9	B2/2500		
BH (60°-80°)	1663.8	5.4	B3/2500		G3/2500
BVH (80°-90°)	133.5	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°	3572.4	3572.4	3572.4	3572.4	3572.4	3572.4	3572.4	3572.4	3572.4	3572.4	3572.4
2.5°	3957.5	3950.9	3955.3	3950.9	3926.5	3866.8	3818.1	3756.1	3714.0	3689.7	3632.1
5°	4422.3	4415.7	4400.2	4378.1	4333.8	4251.9	4130.2	3995.1	3913.2	3851.3	3729.5
7.5°	4756.5	4756.5	4754.3	4727.8	4696.8	4610.5	4466.6	4289.5	4170.0	4063.8	3864.5
10°	4927.0	4938.0	4953.5	4991.2	4984.5	4938.0	4803.0	4612.7	4462.2	4338.2	4041.6
12.5°	5019.9	5026.6	5053.1	5130.6	5210.3	5221.3	5141.7	4942.5	4778.7	4612.7	4238.6
15°	5139.5	5141.7	5177.1	5270.0	5387.3	5504.7	5484.7	5285.5	5117.3	4933.6	4457.7
17.5°	5232.4	5247.9	5312.1	5420.6	5566.6	5728.2	5825.6	5701.6	5493.6	5283.3	4696.8
20°	5265.6	5276.7	5360.8	5526.8	5726.0	5954.0	6170.9	6137.7	5927.4	5679.5	4966.8
22.5°	5385.1	5385.1	5447.1	5586.6	5821.2	6153.2	6505.1	6591.4	6405.5	6115.5	5256.8
25°	5648.5	5639.7	5668.4	5726.0	5903.1	6312.5	6834.9	7093.9	6885.8	6560.4	5546.7
27.5°	6009.3	6004.9	6002.7	6011.5	6071.3	6452.0	7113.8	7563.1	7355.0	6987.6	5805.7
30°	6401.1	6387.8	6416.6	6390.0	6376.7	6618.0	7350.6	7983.6	7822.1	7410.4	6020.4
32.5°	6934.5	6910.2	6903.5	6817.2	6764.1	6876.9	7541.0	8461.7	8333.3	7866.3	6261.6
35°	7638.3	7616.2	7503.3	7366.1	7209.0	7262.1	7777.8	8928.7	8937.6	8437.4	6578.1
37.5°	8348.8	8353.3	8264.7	7941.6	7780.0	7749.0	8138.6	9497.6	9687.9	9119.1	6987.6
40°	8939.8	8966.4	8966.4	8625.5	8384.3	8355.5	8645.4	10172.7	10551.1	9955.8	7505.5
42.5°	9389.1	9413.5	9490.9	9245.3	8990.7	9090.3	9260.8	10850.0	11529.5	10989.4	8160.7
45°	9882.7	9902.6	9944.7	9803.0	9654.7	9920.3	9958.0	11660.0	12649.4	12149.2	8922.1
47.5°	10537.9	10520.2	10524.6	10420.6	10305.5	10734.9	10726.0	12341.8	13731.8	13419.7	9747.7
50°	11352.4	11385.6	11354.6	11148.8	11013.7	11405.5	11456.4	13096.5	14683.5	14676.9	10579.9
52.5°	12135.9	12149.2	12313.0	12321.8	12045.2	11963.3	12096.1	13857.9	15487.0	15827.8	11379.0
55°	12175.8	12226.7	12718.0	13072.2	13519.3	12861.9	12742.4	14583.9	16263.9	16954.4	12209.0
57.5°	11328.0	11409.9	12244.4	13008.0	14251.9	14404.6	13849.1	15522.4	17040.8	18063.3	13169.6
60°	9517.5	9687.9	10821.2	11989.8	13922.1	15513.5	16113.4	16797.3	18061.1	19196.6	14336.0
62.5°	6077.9	6144.3	7733.5	9690.1	12436.9	15405.1	18579.1	19043.9	19614.9	20672.9	16133.3
65°	3043.4	3255.9	4187.7	5783.5	8968.6	13574.6	19825.2	23158.5	22459.1	23200.6	19046.1
67.5°	2065.1	2133.7	2605.1	3475.0	5259.0	9617.1	19052.7	26624.7	26418.8	26540.6	22151.4
70°	1522.8	1567.1	1938.9	2461.3	3180.6	5460.4	15168.2	26363.5	27769.0	27724.7	21826.1
72.5°	1111.1	1133.2	1414.3	1879.2	2357.2	2824.3	9263.0	21297.1	24240.9	25518.0	19088.1
75°	807.9	834.4	982.7	1405.5	1832.7	1761.8	4572.8	15382.9	18486.1	20942.9	15551.2
77.5°	602.0	635.2	703.9	880.9	1283.8	1261.6	1976.5	9989.0	11956.6	13678.6	9446.7
80°	433.8	440.5	480.3	564.4	814.5	739.3	940.7	5208.1	5971.7	6542.7	3703.0
82.5°	263.4	270.0	320.9	347.5	504.6	464.8	489.2	1686.6	2417.0	2565.3	1383.4
85°	77.5	81.9	146.1	159.4	210.3	199.2	197.0	686.1	818.9	1046.9	544.5
87.5°	0.0	0.0	0.0	0.0	2.2	13.3	24.3	121.7	183.7	254.5	132.8
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°	3572.4	3572.4	3572.4	3572.4	3572.4	3572.4	3572.4	3572.4	3572.4	3572.4	3572.4
2.5°	3610.0	3559.1	3532.5	3486.1	3452.9	3419.7	3386.5	3355.5	3342.2	3322.3	3326.7
5°	3674.2	3594.5	3514.8	3424.1	3346.6	3282.4	3224.9	3174.0	3151.8	3131.9	3140.8
7.5°	3771.6	3652.1	3499.3	3333.3	3211.6	3123.1	3063.3	3027.9	3016.8	3001.3	3001.3
10°	3895.5	3716.3	3448.4	3211.6	3065.5	2994.7	2968.1	2965.9	2977.0	2979.2	2974.8
12.5°	4032.8	3778.2	3373.2	3067.7	2943.8	2921.7	2941.6	2979.2	3016.8	3036.7	3032.3
15°	4174.4	3818.1	3244.8	2930.5	2855.3	2884.0	2948.2	3023.5	3096.5	3134.1	3131.9
17.5°	4307.2	3826.9	3078.8	2797.7	2777.8	2850.8	2961.5	3078.8	3178.4	3231.5	3233.7
20°	4455.5	3811.4	2908.4	2678.2	2700.3	2819.8	2965.9	3107.6	3224.9	3278.0	3291.3
22.5°	4590.5	3758.3	2742.4	2565.3	2633.9	2782.2	2930.5	3063.3	3167.3	3218.2	3236.0
25°	4712.3	3656.5	2560.9	2470.1	2583.0	2729.1	2842.0	2934.9	3008.0	3039.0	3063.3
27.5°	4778.7	3503.8	2423.6	2394.9	2534.3	2653.8	2715.8	2744.6	2768.9	2760.1	2777.8
30°	4792.0	3313.4	2304.1	2335.1	2461.3	2549.8	2563.1	2534.3	2492.3	2423.6	2439.1
32.5°	4778.7	3094.3	2204.5	2270.9	2379.4	2432.5	2414.8	2339.5	2237.7	2131.5	2138.1
35°	4783.1	2873.0	2122.6	2200.1	2284.2	2313.0	2268.7	2164.7	2056.2	1958.8	1954.4
37.5°	4831.8	2687.0	2054.0	2131.5	2191.2	2195.7	2147.0	2038.5	1983.2	1910.1	1901.3
40°	4966.8	2549.8	1992.0	2062.9	2100.5	2098.3	2042.9	1965.5	2003.1	1978.8	1972.1
42.5°	5188.1	2465.7	1941.1	1989.8	2016.4	2020.8	1976.5	1927.8	2009.7	1978.8	1967.7
45°	5544.5	2461.3	1905.7	1916.8	1958.8	1989.8	1958.8	1903.5	1934.5	1784.0	1755.2
47.5°	5967.3	2536.5	1879.2	1852.6	1925.6	1981.0	1932.3	1843.7	1779.6	1642.3	1622.4
50°	6476.3	2689.2	1854.8	1784.0	1876.9	1947.8	1899.1	1777.3	1680.0	1606.9	1595.8
52.5°	7080.6	2890.7	1823.8	1706.5	1803.9	1930.1	1899.1	1770.7	1642.3	1575.9	1564.9
55°	7713.6	3123.1	1788.4	1613.5	1722.0	1934.5	1914.6	1724.2	1613.5	1578.1	1569.3
57.5°	8499.4	3402.0	1724.2	1505.1	1649.0	1894.6	1852.6	1697.7	1593.6	1564.9	1556.0
60°	9519.7	3815.9	1602.5	1394.4	1564.9	1823.8	1797.3	1653.4	1540.5	1516.2	1509.5
62.5°	11135.5	4517.5	1454.2	1288.2	1465.3	1675.5	1715.4	1569.3	1474.1	1471.9	1469.7
65°	13769.4	5360.8	1279.3	1193.0	1361.2	1553.8	1606.9	1483.0	1405.5	1429.8	1427.6
67.5°	15615.3	5433.8	1135.5	1093.4	1239.5	1421.0	1498.5	1394.4	1310.3	1356.8	1354.6
70°	14302.8	4238.6	1011.5	989.4	1108.9	1277.1	1381.1	1283.8	1199.6	1243.9	1235.1
72.5°	12062.9	3249.2	894.2	880.9	976.1	1126.6	1230.6	1173.1	1084.6	1084.6	1064.6
75°	9694.6	2680.4	770.3	763.6	827.8	973.9	1091.2	993.8	911.9	907.5	894.2
77.5°	5560.0	1757.4	646.3	641.9	661.8	814.5	847.7	827.8	765.8	737.1	728.2
80°	2215.6	914.1	509.1	480.3	500.2	597.6	668.4	635.2	582.1	546.7	526.8
82.5°	858.8	458.2	358.6	314.3	343.1	431.6	484.7	473.7	438.2	358.6	336.4
85°	349.7	223.6	214.7	181.5	199.2	232.4	278.9	241.3	199.2	141.7	135.0
87.5°	93.0	81.9	79.7	48.7	37.6	11.1	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)