

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: P637226

Luminaire Tested: GWS-SA4C-735-U-T2-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637226
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-SA4C-735-U-T2-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: (64) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18995.3 lumens
Efficiency: N/A
Efficacy: 147.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

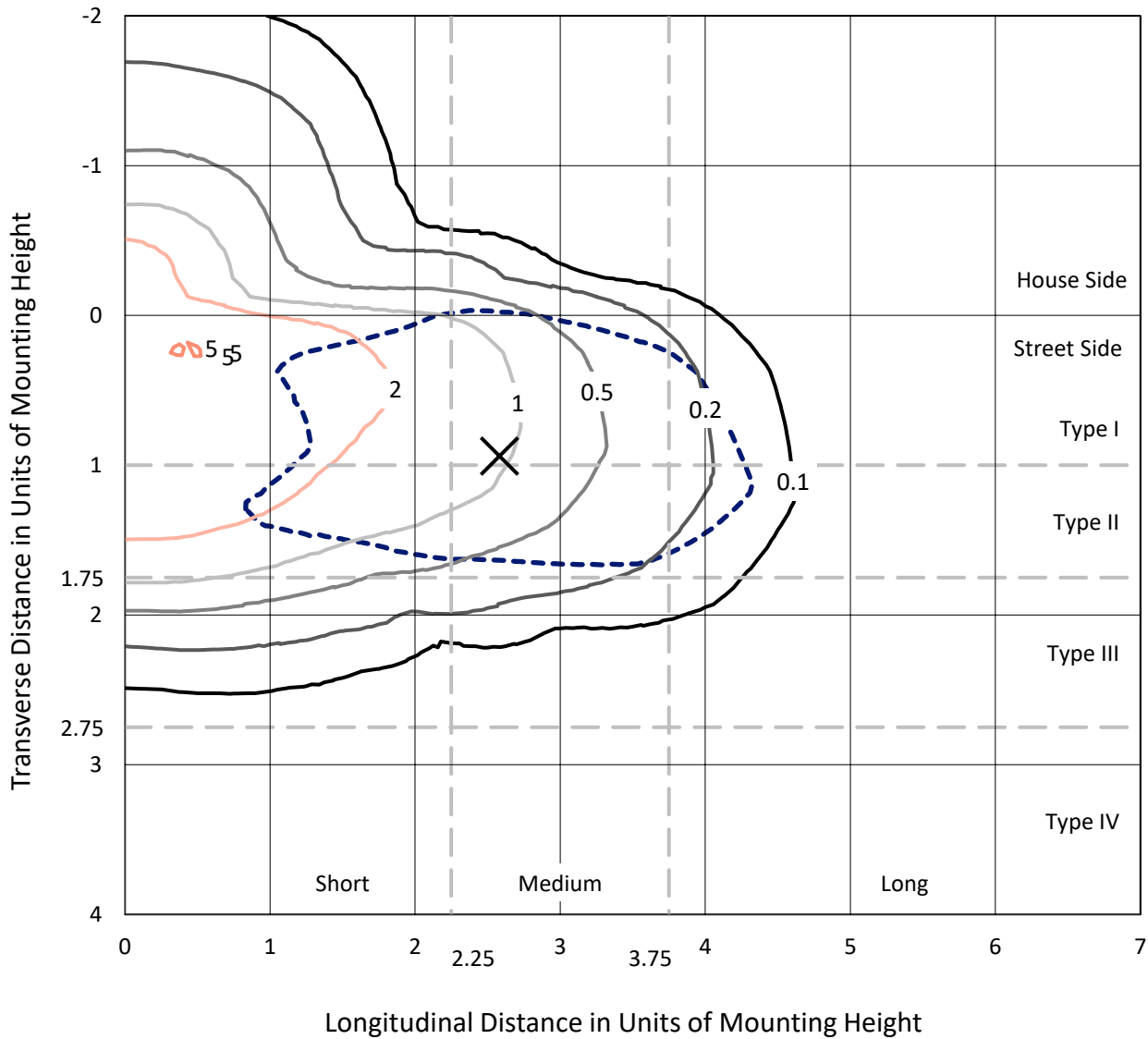
Input Watts (W): 128.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

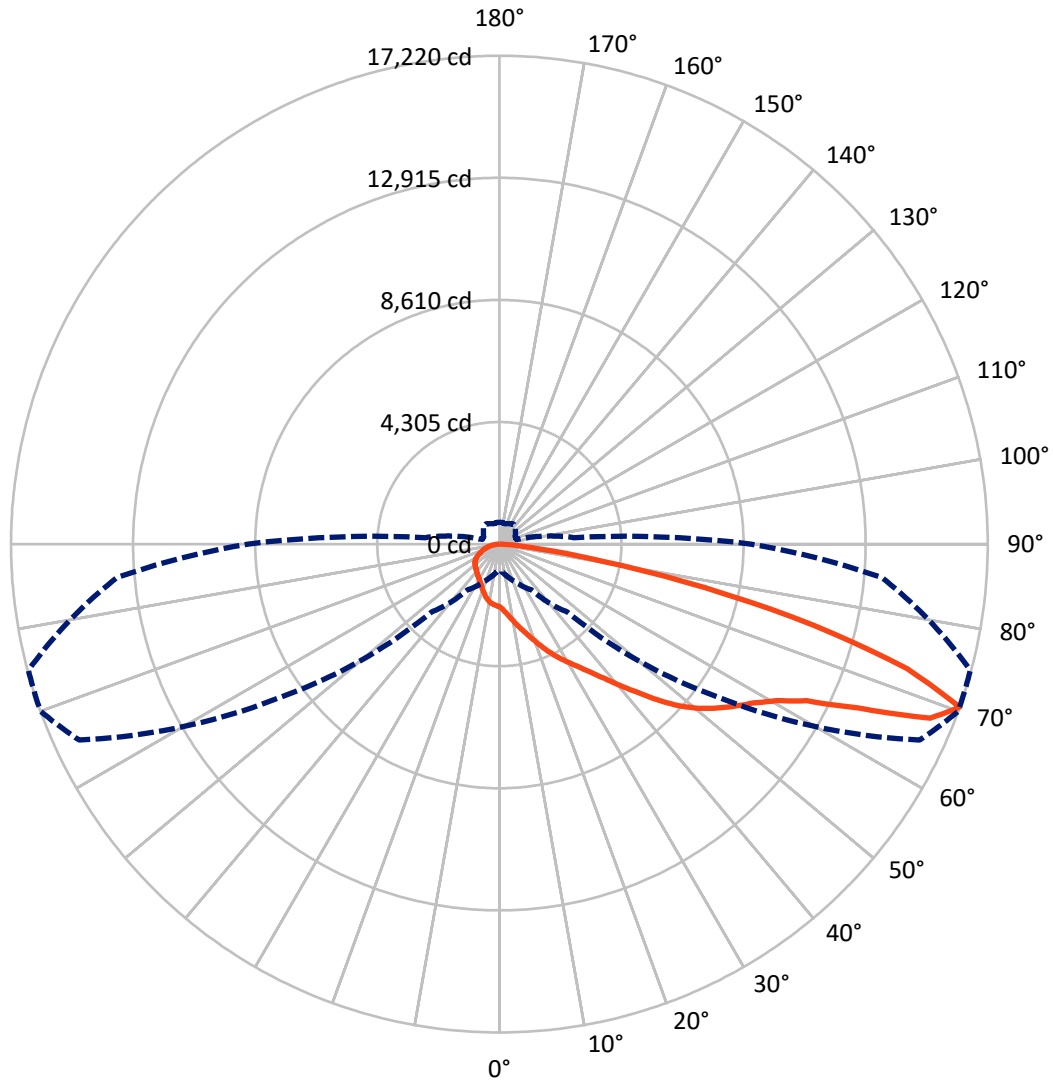
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 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	3404.0	0.0	3404.0
	% Fixture	17.9	0.0	17.9
Street Side	Lumens	15591.3	0.0	15591.3
	% Fixture	82.1	0.0	82.1
Total	Lumens	18995.3	0.0	18995.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	225.2	1.2
10°-20°	732.4	3.9
20°-30°	1297.5	6.8
30°-40°	1952.8	10.3
40°-50°	2954.3	15.6
50°-60°	4232.3	22.3
60°-70°	4678.3	24.6
70°-80°	2640.1	13.9
80°-90°	282.4	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°	18995.3	100.0
0°-180°	18995.3	100.0

Coefficient of Utilization



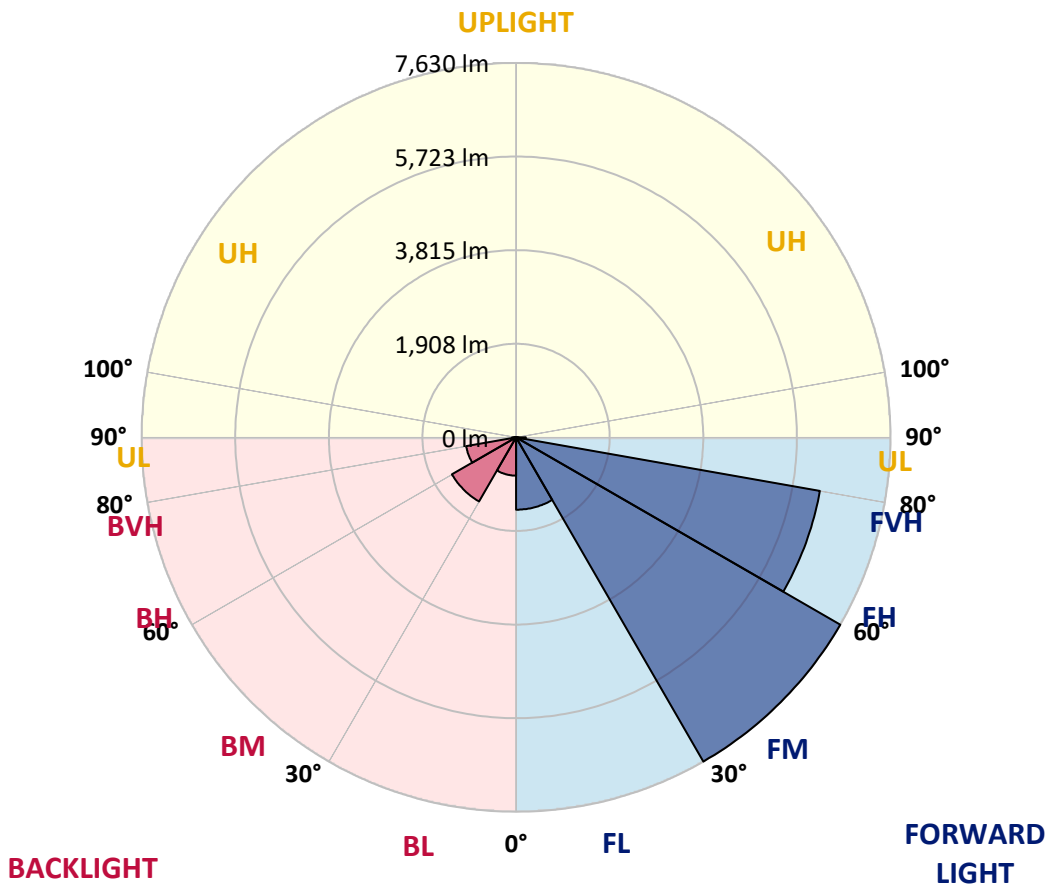
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1474.6	7.8			
FM (30°-60°)	7630.4	40.2			
FH (60°-80°)	6286.7	33.1			G3/7500
FVH (80°-90°)	199.6	1.1			G2/225
BL (0°-30°)	780.5	4.1	B2/1000		
BM (30°-60°)	1509.0	7.9	B2/2500		
BH (60°-80°)	1031.7	5.4	B3/2500		G3/2500
BVH (80°-90°)	82.8	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3
 Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	2215.2	2215.2	2215.2	2215.2	2215.2	2215.2	2215.2	2215.2	2215.2	2215.2	2215.2
2.5°	2454.1	2449.9	2452.7	2449.9	2434.8	2397.8	2367.6	2329.2	2303.1	2288.0	2252.3
5°	2742.3	2738.2	2728.6	2714.8	2687.4	2636.6	2561.1	2477.4	2426.6	2388.2	2312.7
7.5°	2949.5	2949.5	2948.2	2931.7	2912.5	2859.0	2769.7	2659.9	2585.8	2519.9	2396.4
10°	3055.2	3062.1	3071.7	3095.0	3090.9	3062.1	2978.4	2860.3	2767.0	2690.1	2506.2
12.5°	3112.9	3117.0	3133.5	3181.5	3230.9	3237.8	3188.4	3064.8	2963.3	2860.3	2628.4
15°	3187.0	3188.4	3210.3	3268.0	3340.7	3413.5	3401.1	3277.6	3173.3	3059.3	2764.3
17.5°	3244.6	3254.2	3294.0	3361.3	3451.9	3552.1	3612.5	3535.6	3406.6	3276.2	2912.5
20°	3265.2	3272.1	3324.2	3427.2	3550.7	3692.1	3826.6	3806.0	3675.6	3521.9	3079.9
22.5°	3339.3	3339.3	3377.8	3464.2	3609.7	3815.6	4033.8	4087.4	3972.1	3792.3	3259.7
25°	3502.7	3497.2	3515.0	3550.7	3660.5	3914.4	4238.3	4398.9	4269.9	4068.1	3439.5
27.5°	3726.4	3723.6	3722.3	3727.8	3764.8	4000.9	4411.3	4689.9	4560.9	4333.0	3600.1
30°	3969.3	3961.1	3978.9	3962.5	3954.2	4103.8	4558.1	4950.7	4850.5	4595.2	3733.3
32.5°	4300.1	4285.0	4280.9	4227.4	4194.4	4264.4	4676.2	5247.1	5167.5	4877.9	3882.9
35°	4736.6	4722.8	4652.8	4567.7	4470.3	4503.2	4823.0	5536.7	5542.2	5232.0	4079.1
37.5°	5177.1	5179.9	5125.0	4924.6	4824.4	4805.2	5046.8	5889.5	6007.5	5654.8	4333.0
40°	5543.6	5560.1	5560.1	5348.7	5199.1	5181.3	5361.1	6308.1	6542.8	6173.6	4654.2
42.5°	5822.2	5837.3	5885.4	5733.0	5575.2	5636.9	5742.6	6728.1	7149.5	6814.6	5060.5
45°	6128.3	6140.6	6166.7	6078.9	5986.9	6151.6	6175.0	7230.4	7843.9	7533.8	5532.6
47.5°	6534.6	6523.6	6526.3	6461.8	6390.4	6656.7	6651.2	7653.2	8515.1	8321.6	6044.6
50°	7039.6	7060.2	7041.0	6913.4	6829.7	7072.6	7104.2	8121.2	9105.3	9101.2	6560.6
52.5°	7525.5	7533.8	7635.3	7640.8	7469.2	7418.5	7500.8	8593.3	9603.5	9814.9	7056.1
55°	7550.2	7581.8	7886.5	8106.1	8383.3	7975.7	7901.6	9043.5	10085.3	10513.5	7570.8
57.5°	7024.6	7075.3	7592.8	8066.3	8837.6	8932.4	8587.9	9625.5	10567.0	11201.1	8166.5
60°	5901.8	6007.5	6710.2	7434.9	8633.1	9620.0	9991.9	10416.0	11199.8	11903.9	8889.8
62.5°	3768.9	3810.1	4795.6	6008.9	7712.2	9552.7	11520.9	11809.2	12163.3	12819.3	10004.3
65°	1887.2	2019.0	2596.8	3586.4	5561.4	8417.7	12293.7	14360.7	13926.9	14386.7	11810.5
67.5°	1280.6	1323.1	1615.5	2154.9	3261.1	5963.6	11814.6	16510.0	16382.4	16457.9	13736.2
70°	944.3	971.7	1202.3	1526.2	1972.3	3386.0	9405.9	16348.1	17219.6	17192.2	13534.4
72.5°	689.0	702.7	877.0	1165.3	1461.7	1751.3	5744.0	13206.4	15031.8	15823.8	11836.6
75°	501.0	517.4	609.4	871.5	1136.4	1092.5	2835.6	9539.0	11463.3	12986.8	9643.3
77.5°	373.3	393.9	436.5	546.3	796.1	782.3	1225.7	6194.2	7414.3	8482.2	5857.9
80°	269.0	273.1	297.8	350.0	505.1	458.4	583.3	3229.5	3703.1	4057.2	2296.2
82.5°	163.3	167.4	199.0	215.5	312.9	288.2	303.3	1045.9	1498.8	1590.7	857.8
85°	48.0	50.8	90.6	98.8	130.4	123.5	122.2	425.5	507.8	649.2	337.6
87.5°	0.0	0.0	0.0	0.0	1.4	8.2	15.1	75.5	113.9	157.8	82.4
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°	2215.2	2215.2	2215.2	2215.2	2215.2	2215.2	2215.2	2215.2	2215.2	2215.2	2215.2
2.5°	2238.6	2207.0	2190.5	2161.7	2141.1	2120.5	2100.0	2080.7	2072.5	2060.2	2062.9
5°	2278.4	2229.0	2179.6	2123.3	2075.2	2035.4	1999.8	1968.2	1954.5	1942.1	1947.6
7.5°	2338.8	2264.7	2170.0	2067.0	1991.5	1936.6	1899.6	1877.6	1870.7	1861.1	1861.1
10°	2415.6	2304.5	2138.4	1991.5	1900.9	1857.0	1840.5	1839.2	1846.0	1847.4	1844.7
12.5°	2500.7	2342.9	2091.7	1902.3	1825.4	1811.7	1824.1	1847.4	1870.7	1883.1	1880.4
15°	2588.6	2367.6	2012.1	1817.2	1770.5	1788.4	1828.2	1874.9	1920.2	1943.5	1942.1
17.5°	2670.9	2373.1	1909.2	1734.9	1722.5	1767.8	1836.4	1909.2	1970.9	2003.9	2005.2
20°	2762.9	2363.5	1803.5	1660.7	1674.5	1748.6	1839.2	1927.0	1999.8	2032.7	2040.9
22.5°	2846.6	2330.5	1700.6	1590.7	1633.3	1725.3	1817.2	1899.6	1964.1	1995.6	2006.6
25°	2922.1	2267.4	1588.0	1531.7	1601.7	1692.3	1762.3	1820.0	1865.3	1884.5	1899.6
27.5°	2963.3	2172.7	1502.9	1485.1	1571.5	1645.7	1684.1	1701.9	1717.0	1711.5	1722.5
30°	2971.5	2054.7	1428.8	1448.0	1526.2	1581.1	1589.4	1571.5	1545.5	1502.9	1512.5
32.5°	2963.3	1918.8	1367.0	1408.2	1475.5	1508.4	1497.4	1450.8	1387.6	1321.7	1325.9
35°	2966.0	1781.5	1316.2	1364.3	1416.4	1434.3	1406.8	1342.3	1275.1	1214.7	1211.9
37.5°	2996.2	1666.2	1273.7	1321.7	1358.8	1361.5	1331.3	1264.1	1229.8	1184.5	1179.0
40°	3079.9	1581.1	1235.3	1279.2	1302.5	1301.1	1266.8	1218.8	1242.1	1227.0	1222.9
42.5°	3217.2	1529.0	1203.7	1233.9	1250.4	1253.1	1225.7	1195.5	1246.2	1227.0	1220.2
45°	3438.2	1526.2	1181.7	1188.6	1214.7	1233.9	1214.7	1180.4	1199.6	1106.3	1088.4
47.5°	3700.3	1572.9	1165.3	1148.8	1194.1	1228.4	1198.2	1143.3	1103.5	1018.4	1006.1
50°	4016.0	1667.6	1150.2	1106.3	1163.9	1207.8	1177.6	1102.1	1041.7	996.4	989.6
52.5°	4390.7	1792.5	1131.0	1058.2	1118.6	1196.8	1177.6	1098.0	1018.4	977.2	970.4
55°	4783.2	1936.6	1109.0	1000.6	1067.8	1199.6	1187.2	1069.2	1000.6	978.6	973.1
57.5°	5270.5	2109.6	1069.2	933.3	1022.5	1174.9	1148.8	1052.7	988.2	970.4	964.9
60°	5903.2	2366.2	993.7	864.7	970.4	1131.0	1114.5	1025.3	955.3	940.2	936.1
62.5°	6905.1	2801.3	901.7	798.8	908.6	1039.0	1063.7	973.1	914.1	912.7	911.4
65°	8538.4	3324.2	793.3	739.8	844.1	963.5	996.4	919.6	871.5	886.6	885.3
67.5°	9683.1	3369.5	704.1	678.0	768.6	881.2	929.2	864.7	812.5	841.4	840.0
70°	8869.2	2628.4	627.2	613.5	687.6	791.9	856.5	796.1	743.9	771.4	765.9
72.5°	7480.2	2014.9	554.5	546.3	605.3	698.6	763.1	727.4	672.5	672.5	660.2
75°	6011.6	1662.1	477.6	473.5	513.3	603.9	676.7	616.3	565.5	562.7	554.5
77.5°	3447.8	1089.8	400.8	398.0	410.4	505.1	525.7	513.3	474.9	457.0	451.6
80°	1373.9	566.9	315.7	297.8	310.2	370.6	414.5	393.9	361.0	339.0	326.7
82.5°	532.5	284.1	222.3	194.9	212.7	267.6	300.6	293.7	271.8	222.3	208.6
85°	216.9	138.6	133.1	112.5	123.5	144.1	172.9	149.6	123.5	87.8	83.7
87.5°	57.6	50.8	49.4	30.2	23.3	6.9	1.4	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)