

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: P640691

Luminaire Tested: GWS-SA5E-735-U-T2-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640691
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-SA5E-735-U-T2-W
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: (80) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36735.5 lumens
Efficiency: N/A
Efficacy: 136.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G5

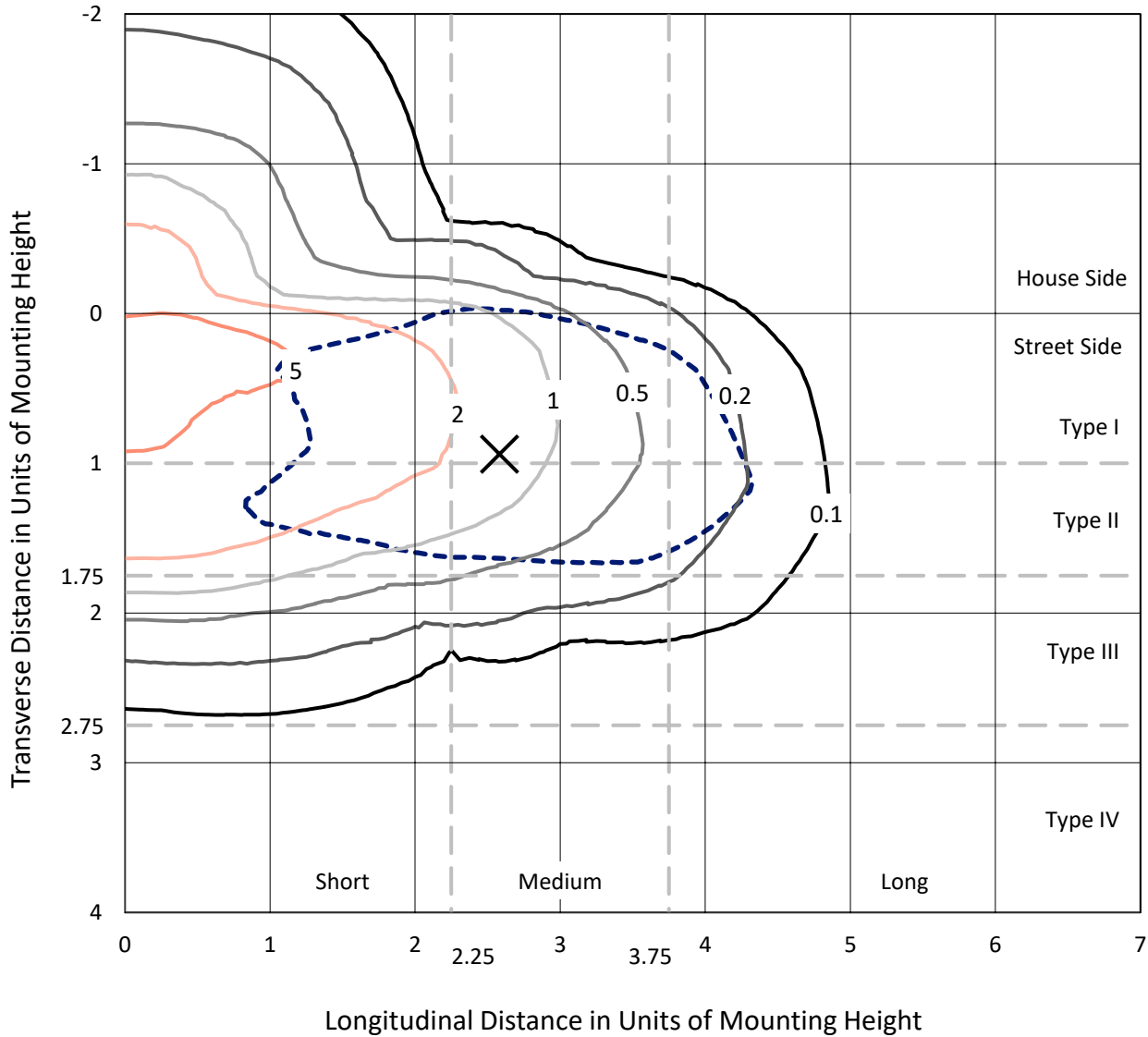
Input Watts (W): 269.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

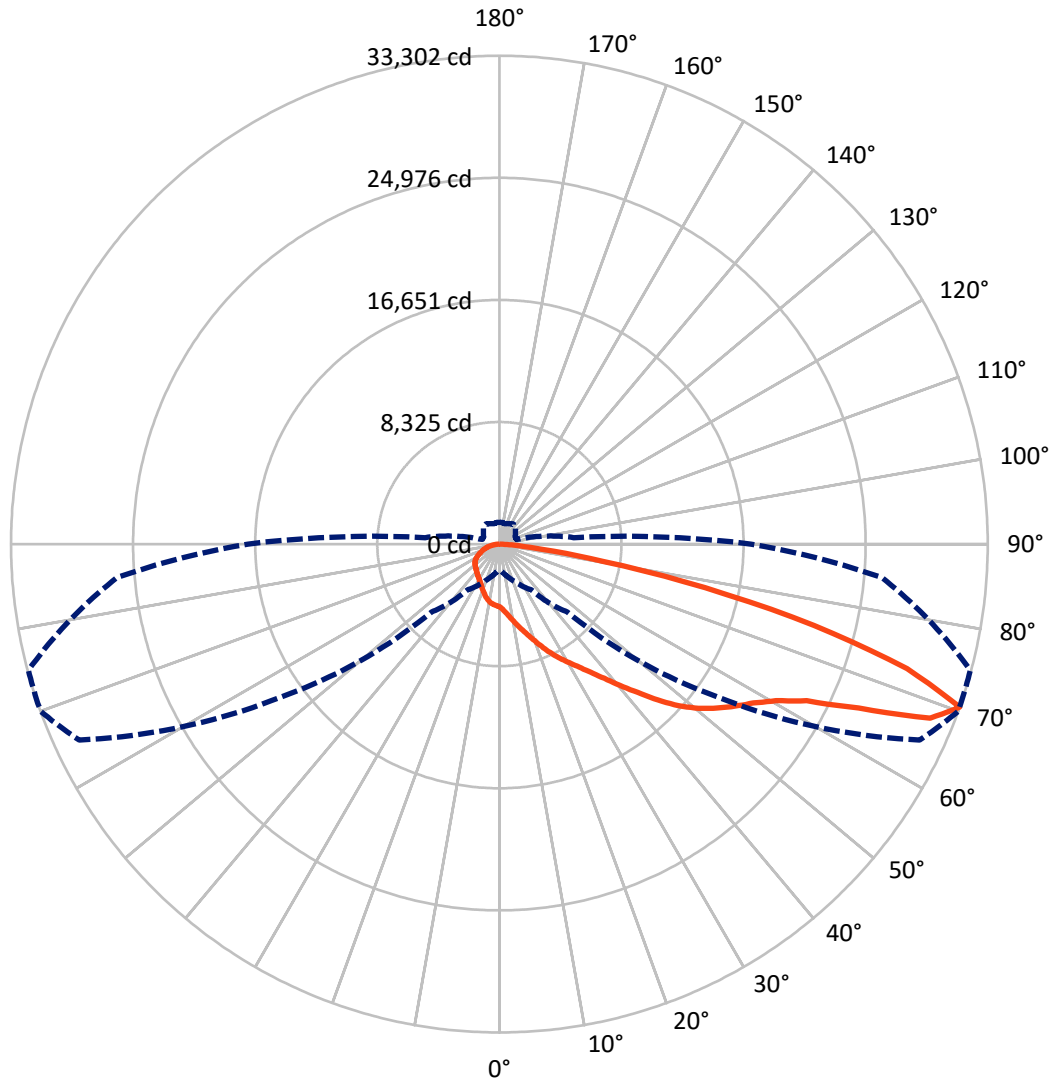
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.9 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	6583.1	0.0	6583.1
	% Fixture	17.9	0.0	17.9
Street Side	Lumens	30152.4	0.0	30152.4
	% Fixture	82.1	0.0	82.1
Total	Lumens	36735.5	0.0	36735.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	435.4	1.2
10°-20°	1416.5	3.9
20°-30°	2509.3	6.8
30°-40°	3776.6	10.3
40°-50°	5713.5	15.6
50°-60°	8184.9	22.3
60°-70°	9047.5	24.6
70°-80°	5105.7	13.9
80°-90°	546.1	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°	36735.5	100.0
0°-180°	36735.5	100.0

Coefficient of Utilization



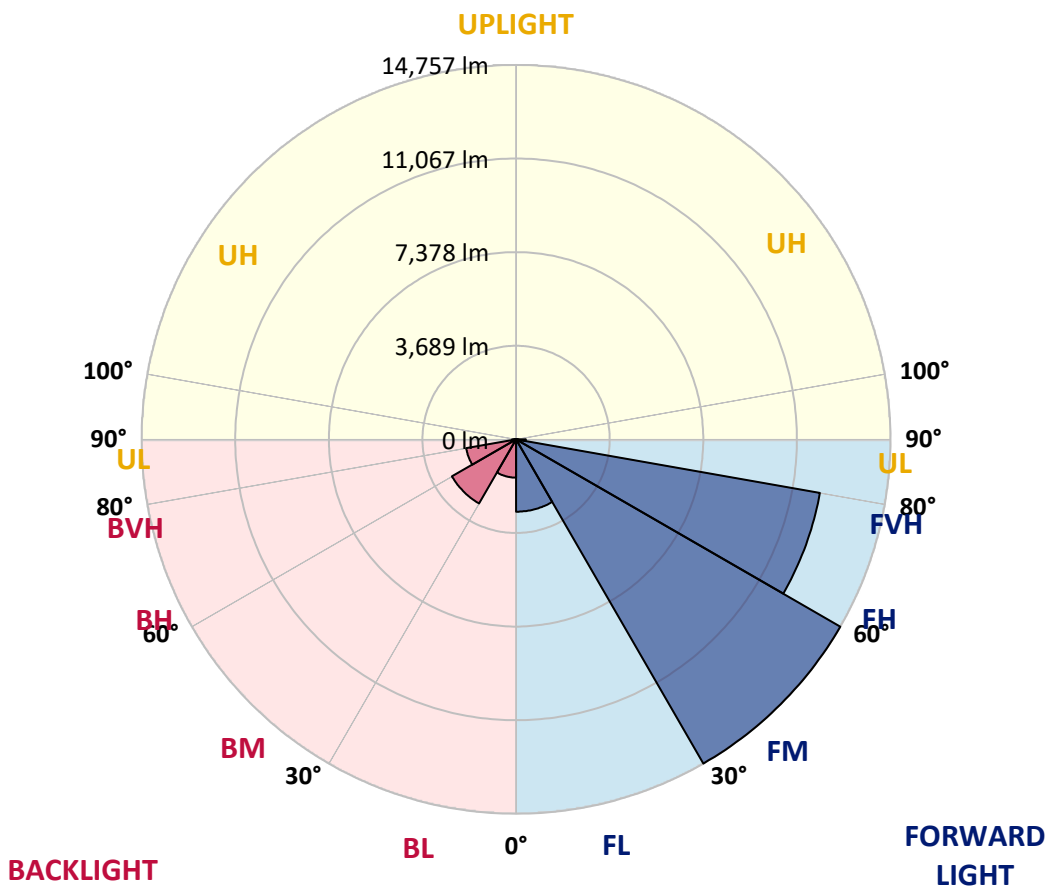
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2851.8	7.8			
FM (30°-60°)	14756.6	40.2			
FH (60°-80°)	12157.9	33.1			G5
FVH (80°-90°)	386.1	1.1			G3/500
BL (0°-30°)	1509.4	4.1	B3/2500		
BM (30°-60°)	2918.3	7.9	B3/5000		
BH (60°-80°)	1995.3	5.4	B3/2500		G3/2500
BVH (80°-90°)	160.1	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-G5
 Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	4284.1	4284.1	4284.1	4284.1	4284.1	4284.1	4284.1	4284.1	4284.1	4284.1	4284.1
2.5°	4746.0	4738.0	4743.3	4738.0	4708.8	4637.1	4578.8	4504.4	4454.0	4424.8	4355.8
5°	5303.4	5295.4	5276.8	5250.3	5197.2	5099.0	4953.0	4791.1	4692.9	4618.6	4472.6
7.5°	5704.2	5704.2	5701.5	5669.7	5632.5	5529.0	5356.5	5144.1	5000.8	4873.4	4634.5
10°	5908.6	5921.9	5940.4	5985.6	5977.6	5921.9	5759.9	5531.7	5351.2	5202.5	4846.8
12.5°	6020.1	6028.0	6059.9	6152.8	6248.3	6261.6	6166.1	5927.2	5730.7	5531.7	5083.1
15°	6163.4	6166.1	6208.5	6320.0	6460.7	6601.4	6577.5	6338.6	6136.9	5916.5	5345.9
17.5°	6274.9	6293.5	6370.4	6500.5	6675.7	6869.5	6986.2	6837.6	6588.1	6335.9	5632.5
20°	6314.7	6328.0	6428.8	6627.9	6866.8	7140.2	7400.3	7360.5	7108.3	6811.1	5956.4
22.5°	6458.0	6458.0	6532.4	6699.6	6980.9	7379.1	7801.1	7904.7	7681.7	7334.0	6304.1
25°	6773.9	6763.3	6797.8	6866.8	7079.1	7570.2	8196.6	8507.2	8257.7	7867.5	6651.8
27.5°	7206.6	7201.3	7198.6	7209.2	7280.9	7737.4	8531.1	9069.9	8820.4	8379.8	6962.4
30°	7676.4	7660.5	7695.0	7663.1	7647.2	7936.5	8815.1	9574.2	9380.5	8886.8	7219.8
32.5°	8316.1	8286.9	8278.9	8175.4	8111.7	8247.1	9043.4	10147.6	9993.6	9433.6	7509.2
35°	9160.2	9133.6	8998.2	8833.7	8645.2	8708.9	9327.4	10707.6	10718.3	10118.4	7888.7
37.5°	10012.2	10017.5	9911.3	9523.8	9330.0	9292.9	9760.0	11389.8	11618.1	10935.9	8379.8
40°	10720.9	10752.8	10752.8	10344.0	10054.7	10020.2	10367.9	12199.4	12653.3	11939.3	9000.9
42.5°	11259.8	11288.9	11381.9	11087.2	10782.0	10901.4	11105.8	13011.6	13826.5	13178.8	9786.6
45°	11851.7	11875.6	11926.0	11756.1	11578.3	11896.8	11941.9	13983.1	15169.6	14569.7	10699.7
47.5°	12637.4	12616.1	12621.4	12496.7	12358.7	12873.6	12863.0	14800.7	16467.6	16093.3	11689.8
50°	13614.2	13654.0	13616.8	13370.0	13208.0	13677.9	13738.9	15705.8	17609.0	17601.0	12687.8
52.5°	14553.8	14569.7	14766.1	14776.8	14445.0	14346.8	14506.0	16618.9	18572.5	18981.3	13646.0
55°	14601.6	14662.6	15251.9	15676.6	16212.8	15424.4	15281.1	17489.5	19504.2	20332.3	14641.4
57.5°	13585.0	13683.2	14683.9	15599.6	17091.4	17274.5	16608.3	18615.0	20435.8	21662.1	15793.4
60°	11413.7	11618.1	12977.1	14378.6	16695.9	18604.3	19323.7	20143.9	21659.5	23021.2	17192.2
62.5°	7288.8	7368.5	9274.3	11620.7	14914.8	18474.3	22280.6	22838.0	23522.8	24791.6	19347.6
65°	3649.7	3904.5	5022.0	6935.8	10755.4	16279.1	23775.0	27772.5	26933.7	27822.9	22840.7
67.5°	2476.5	2558.8	3124.2	4167.3	6306.7	11533.1	22848.6	31929.2	31682.3	31828.3	26564.7
70°	1826.2	1879.3	2325.2	2951.6	3814.3	6548.3	18190.3	31616.0	33301.5	33248.4	26174.5
72.5°	1332.5	1359.0	1696.1	2253.5	2826.9	3386.9	11108.5	25540.2	29070.4	30602.0	22891.1
75°	968.8	1000.7	1178.5	1685.5	2197.8	2112.9	5483.9	18447.7	22169.1	25115.5	18649.5
77.5°	722.0	761.8	844.1	1056.4	1539.5	1513.0	2370.3	11979.1	14338.8	16403.9	11328.8
80°	520.3	528.2	576.0	676.9	976.8	886.6	1128.1	6245.7	7161.4	7846.3	4440.7
82.5°	315.9	323.8	384.9	416.7	605.2	557.4	586.6	2022.6	2898.5	3076.4	1659.0
85°	92.9	98.2	175.2	191.1	252.2	238.9	236.2	822.8	982.1	1255.5	653.0
87.5°	0.0	0.0	0.0	0.0	2.7	15.9	29.2	146.0	220.3	305.3	159.3
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°	4284.1	4284.1	4284.1	4284.1	4284.1	4284.1	4284.1	4284.1	4284.1	4284.1	4284.1
2.5°	4329.2	4268.2	4236.3	4180.6	4140.8	4101.0	4061.2	4024.0	4008.1	3984.2	3989.5
5°	4406.2	4310.7	4215.1	4106.3	4013.4	3936.4	3867.4	3806.3	3779.8	3755.9	3766.5
7.5°	4523.0	4379.7	4196.5	3997.5	3851.5	3745.3	3673.6	3631.2	3617.9	3599.3	3599.3
10°	4671.7	4456.7	4135.5	3851.5	3676.3	3591.3	3559.5	3556.8	3570.1	3572.8	3567.4
12.5°	4836.2	4531.0	4045.2	3678.9	3530.3	3503.7	3527.6	3572.8	3617.9	3641.8	3636.5
15°	5006.1	4578.8	3891.3	3514.4	3424.1	3458.6	3535.6	3625.8	3713.4	3758.6	3755.9
17.5°	5165.4	4589.4	3692.2	3355.1	3331.2	3418.8	3551.5	3692.2	3811.6	3875.4	3878.0
20°	5343.2	4570.8	3487.8	3211.8	3238.3	3381.6	3556.8	3726.7	3867.4	3931.1	3947.0
22.5°	5505.1	4507.1	3288.7	3076.4	3158.7	3336.5	3514.4	3673.6	3798.4	3859.4	3880.7
25°	5651.1	4385.0	3071.1	2962.3	3097.6	3272.8	3408.2	3519.7	3607.3	3644.4	3673.6
27.5°	5730.7	4201.8	2906.5	2872.0	3039.2	3182.6	3256.9	3291.4	3320.6	3310.0	3331.2
30°	5746.7	3973.6	2763.2	2800.3	2951.6	3057.8	3073.7	3039.2	2988.8	2906.5	2925.1
32.5°	5730.7	3710.8	2643.7	2723.4	2853.4	2917.1	2895.9	2805.6	2683.5	2556.1	2564.1
35°	5736.0	3445.3	2545.5	2638.4	2739.3	2773.8	2720.7	2596.0	2465.9	2349.1	2343.8
37.5°	5794.4	3222.4	2463.2	2556.1	2627.8	2633.1	2574.7	2444.7	2378.3	2290.7	2280.1
40°	5956.4	3057.8	2388.9	2473.9	2519.0	2516.3	2450.0	2357.1	2402.2	2373.0	2365.0
42.5°	6221.8	2956.9	2327.9	2386.3	2418.1	2423.4	2370.3	2311.9	2410.1	2373.0	2359.7
45°	6649.1	2951.6	2285.4	2298.7	2349.1	2386.3	2349.1	2282.7	2319.9	2139.4	2104.9
47.5°	7156.1	3041.9	2253.5	2221.7	2309.3	2375.6	2317.2	2211.1	2134.1	1969.5	1945.6
50°	7766.6	3225.0	2224.3	2139.4	2250.9	2335.8	2277.4	2131.4	2014.7	1927.1	1913.8
52.5°	8491.3	3466.6	2187.2	2046.5	2163.3	2314.6	2277.4	2123.5	1969.5	1889.9	1876.6
55°	9250.4	3745.3	2144.7	1935.0	2065.1	2319.9	2296.0	2067.7	1935.0	1892.6	1881.9
57.5°	10192.7	4079.7	2067.7	1805.0	1977.5	2272.1	2221.7	2035.9	1911.1	1876.6	1866.0
60°	11416.4	4576.1	1921.7	1672.2	1876.6	2187.2	2155.3	1982.8	1847.4	1818.2	1810.3
62.5°	13354.0	5417.5	1743.9	1544.8	1757.2	2009.3	2057.1	1881.9	1767.8	1765.1	1762.5
65°	16512.7	6428.8	1534.2	1430.7	1632.4	1863.4	1927.1	1778.4	1685.5	1714.7	1712.1
67.5°	18726.4	6516.4	1361.7	1311.2	1486.4	1704.1	1797.0	1672.2	1571.4	1627.1	1624.5
70°	17152.4	5083.1	1213.0	1186.5	1329.8	1531.6	1656.3	1539.5	1438.7	1491.7	1481.1
72.5°	14466.2	3896.6	1072.4	1056.4	1170.6	1351.1	1475.8	1406.8	1300.6	1300.6	1276.7
75°	11626.1	3214.4	923.7	915.8	992.7	1167.9	1308.6	1191.8	1093.6	1088.3	1072.4
77.5°	6667.7	2107.6	775.1	769.8	793.7	976.8	1016.6	992.7	918.4	883.9	873.3
80°	2657.0	1096.2	610.5	576.0	599.9	716.7	801.6	761.8	698.1	655.6	631.7
82.5°	1029.9	549.5	430.0	376.9	411.4	517.6	581.3	568.0	525.6	430.0	403.5
85°	419.4	268.1	257.5	217.7	238.9	278.7	334.4	289.3	238.9	169.9	161.9
87.5°	111.5	98.2	95.6	58.4	45.1	13.3	2.7	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)