

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: P640746

Luminaire Tested: GWS-SA5E-740-U-T2-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640746
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-740-U-T2-W
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: (80) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37245.9 lumens
Efficiency: N/A
Efficacy: 138.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G5

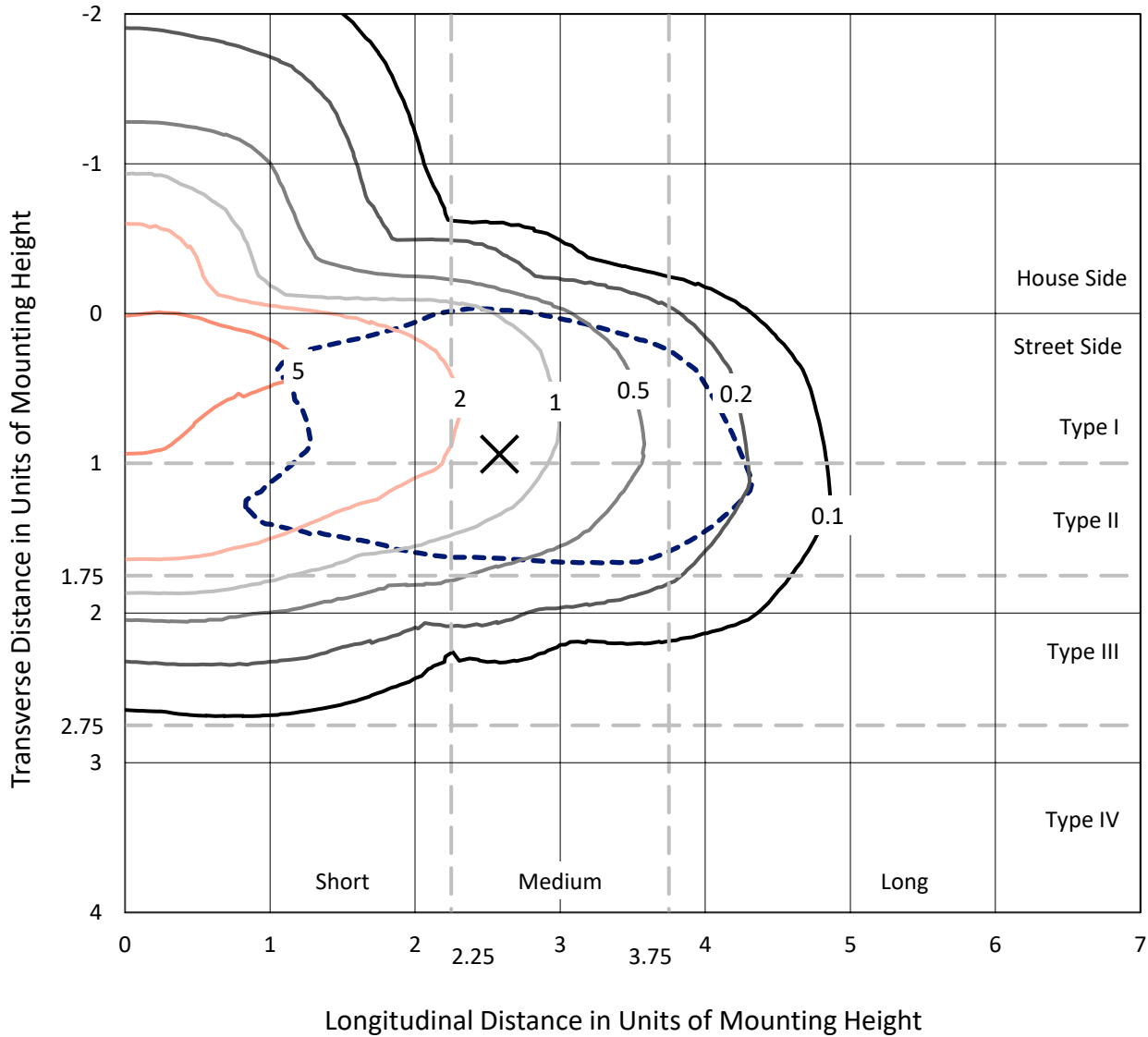
Input Watts (W): 269.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

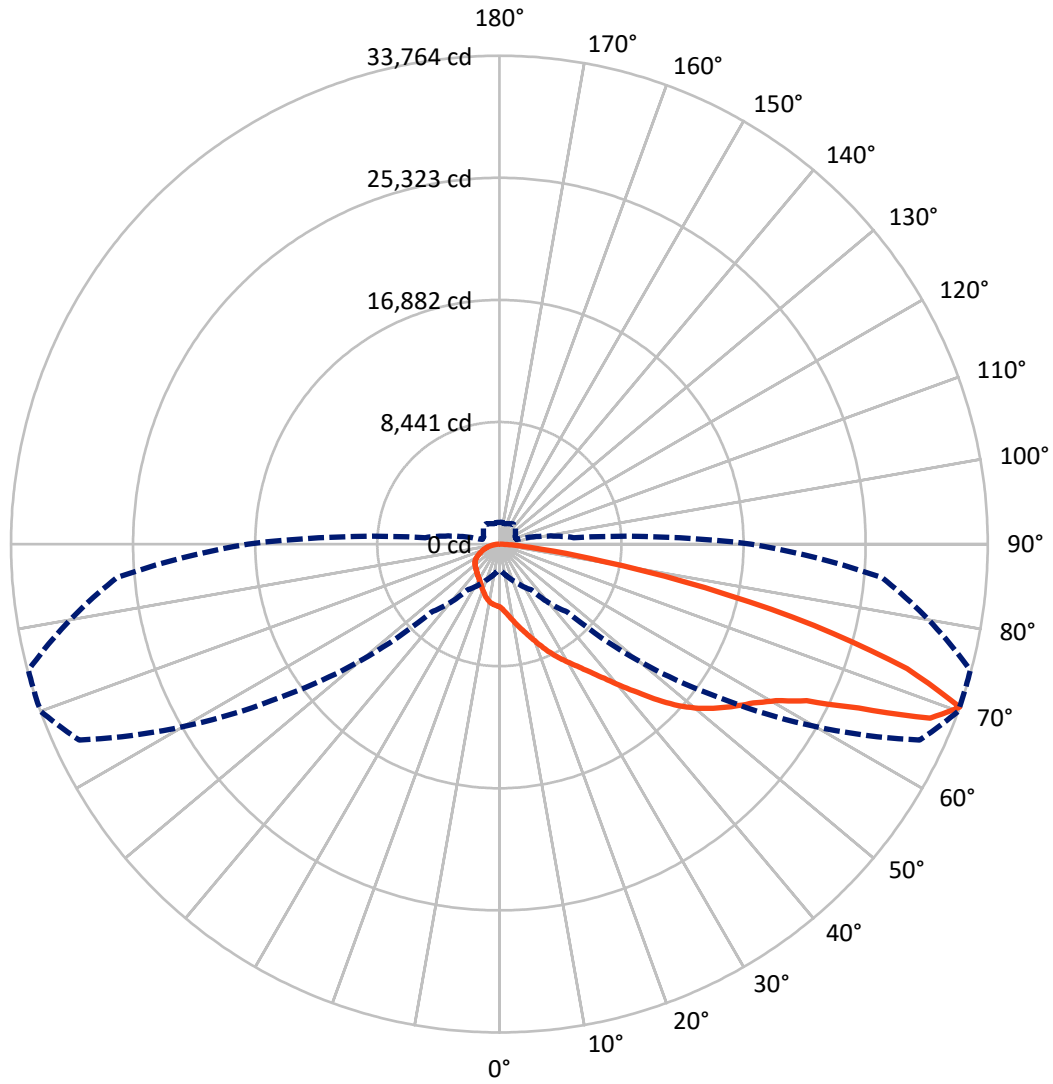
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 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	6674.6	0.0	6674.6
	% Fixture	17.9	0.0	17.9
Street Side	Lumens	30571.4	0.0	30571.4
	% Fixture	82.1	0.0	82.1
Total	Lumens	37245.9	0.0	37245.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	441.5	1.2
10°-20°	1436.1	3.9
20°-30°	2544.2	6.8
30°-40°	3829.0	10.3
40°-50°	5792.9	15.6
50°-60°	8298.6	22.3
60°-70°	9173.2	24.6
70°-80°	5176.7	13.9
80°-90°	553.7	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°	37245.9	100.0
0°-180°	37245.9	100.0

Coefficient of Utilization



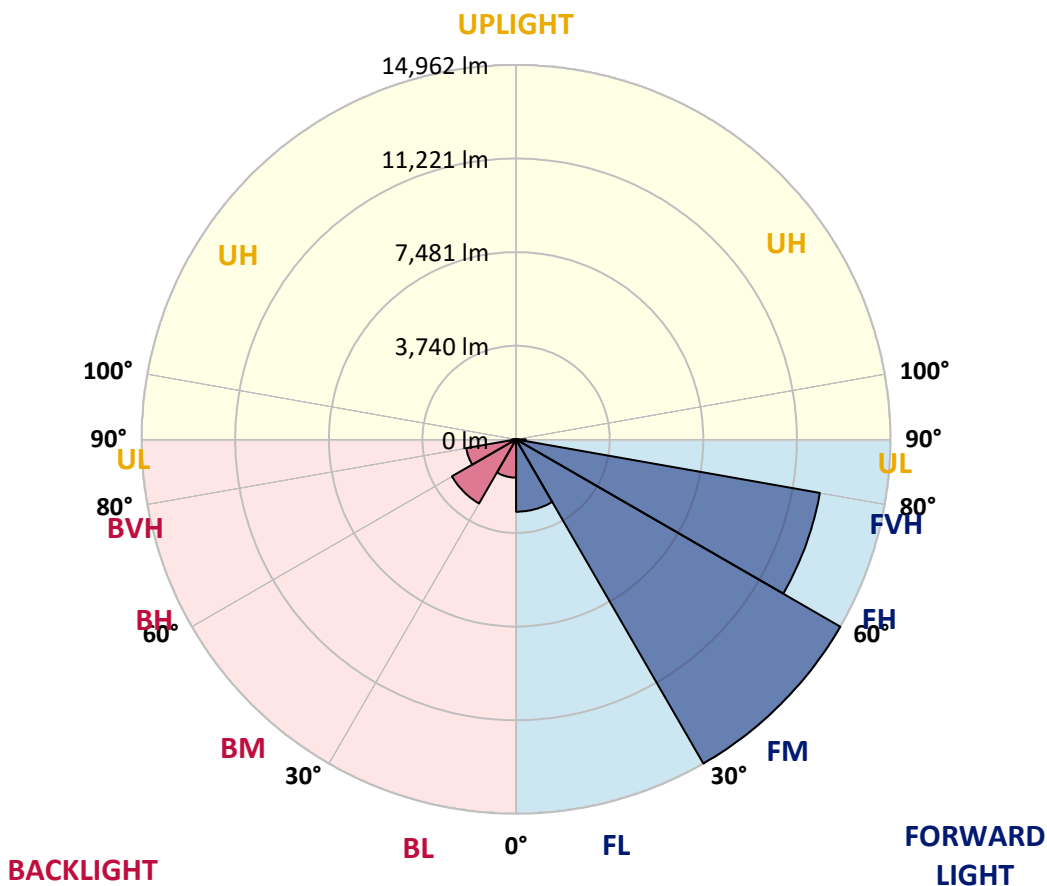
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2891.4	7.8			
FM (30°-60°)	14961.7	40.2			
FH (60°-80°)	12326.9	33.1			G5
FVH (80°-90°)	391.4	1.1			G3/500
BL (0°-30°)	1530.4	4.1	B3/2500		
BM (30°-60°)	2958.9	7.9	B3/5000		
BH (60°-80°)	2023.0	5.4	B3/2500		G3/2500
BVH (80°-90°)	162.3	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°	4343.6	4343.6	4343.6	4343.6	4343.6	4343.6	4343.6	4343.6	4343.6	4343.6	4343.6
2.5°	4811.9	4803.8	4809.2	4803.8	4774.2	4701.6	4642.4	4567.0	4515.9	4486.3	4416.3
5°	5377.1	5369.0	5350.2	5323.3	5269.4	5169.9	5021.8	4857.7	4758.1	4682.7	4534.7
7.5°	5783.5	5783.5	5780.8	5748.5	5710.8	5605.8	5430.9	5215.6	5070.3	4941.1	4698.9
10°	5990.7	6004.1	6023.0	6068.7	6060.6	6004.1	5840.0	5608.5	5425.5	5274.8	4914.2
12.5°	6103.7	6111.8	6144.1	6238.3	6335.2	6348.6	6251.7	6009.5	5810.4	5608.5	5153.7
15°	6249.0	6251.7	6294.8	6407.8	6550.5	6693.1	6668.9	6426.7	6222.1	5998.7	5420.1
17.5°	6362.1	6380.9	6458.9	6590.8	6768.4	6964.9	7083.3	6932.6	6679.6	6424.0	5710.8
20°	6402.4	6415.9	6518.2	6720.0	6962.2	7239.4	7503.1	7462.8	7207.1	6905.7	6039.1
22.5°	6547.8	6547.8	6623.1	6792.7	7077.9	7481.6	7909.5	8014.5	7788.4	7435.9	6391.7
25°	6868.0	6857.3	6892.2	6962.2	7177.5	7675.4	8310.5	8625.4	8372.4	7976.8	6744.2
27.5°	7306.7	7301.3	7298.6	7309.4	7382.0	7844.9	8649.6	9195.9	8943.0	8496.2	7059.1
30°	7783.0	7766.9	7801.9	7769.6	7753.4	8046.8	8937.6	9707.3	9510.8	9010.2	7320.1
32.5°	8431.6	8402.0	8393.9	8289.0	8224.4	8361.6	9169.0	10288.6	10132.5	9564.6	7613.5
35°	9287.4	9260.5	9123.3	8956.4	8765.3	8829.9	9457.0	10856.4	10867.2	10259.0	7998.3
37.5°	10151.3	10156.7	10049.0	9656.1	9459.7	9422.0	9895.6	11548.1	11779.5	11087.9	8496.2
40°	10869.9	10902.2	10902.2	10487.7	10194.4	10159.4	10511.9	12368.9	12829.1	12105.1	9126.0
42.5°	11416.2	11445.8	11540.0	11241.3	10931.8	11052.9	11260.1	13192.4	14018.6	13362.0	9922.6
45°	12016.3	12040.6	12091.7	11919.5	11739.1	12062.1	12107.8	14177.4	15380.4	14772.2	10848.3
47.5°	12812.9	12791.4	12796.8	12670.3	12530.4	13052.5	13041.7	15006.3	16696.4	16316.9	11852.2
50°	13803.3	13843.7	13806.0	13555.7	13391.6	13867.9	13929.8	15924.0	17853.6	17845.5	12864.1
52.5°	14756.0	14772.2	14971.3	14982.1	14645.7	14546.1	14707.6	16849.8	18830.5	19245.0	13835.6
55°	14804.4	14866.3	15463.8	15894.4	16438.0	15638.7	15493.4	17732.5	19775.1	20614.8	14844.8
57.5°	13773.7	13873.3	14887.9	15816.4	17328.8	17514.5	16839.0	18873.6	20719.8	21963.1	16012.8
60°	11572.3	11779.5	13157.4	14578.4	16927.8	18862.8	19592.1	20423.7	21960.4	23341.0	17431.1
62.5°	7390.1	7470.9	9403.2	11782.2	15122.0	18731.0	22590.2	23155.3	23849.7	25136.1	19616.4
65°	3700.4	3958.8	5091.8	7032.2	10904.9	16505.3	24105.3	28158.3	27307.9	28209.5	23158.0
67.5°	2510.9	2594.3	3167.6	4225.2	6394.4	11693.4	23166.1	32372.8	32122.5	32270.5	26933.8
70°	1851.6	1905.4	2357.5	2992.6	3867.3	6639.3	18443.0	32055.2	33764.2	33710.3	26538.2
72.5°	1351.0	1377.9	1719.7	2284.9	2866.2	3434.0	11262.8	25895.0	29474.3	31027.2	23209.2
75°	982.3	1014.6	1194.9	1708.9	2228.3	2142.2	5560.1	18704.0	22477.1	25464.4	18908.6
77.5°	732.0	772.4	855.8	1071.1	1560.9	1534.0	2403.3	12145.5	14538.0	16631.8	11486.2
80°	527.5	535.6	584.0	686.3	990.4	898.9	1143.8	6332.5	7260.9	7955.3	4502.4
82.5°	320.3	328.3	390.2	422.5	613.6	565.2	594.8	2050.7	2938.8	3119.1	1682.0
85°	94.2	99.6	177.6	193.8	255.7	242.2	239.5	834.3	995.8	1273.0	662.0
87.5°	0.0	0.0	0.0	0.0	2.7	16.1	29.6	148.0	223.4	309.5	161.5
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°	4343.6	4343.6	4343.6	4343.6	4343.6	4343.6	4343.6	4343.6	4343.6	4343.6	4343.6
2.5°	4389.4	4327.5	4295.2	4238.7	4198.3	4157.9	4117.6	4079.9	4063.8	4039.5	4044.9
5°	4467.4	4370.6	4273.7	4163.3	4069.1	3991.1	3921.1	3859.2	3832.3	3808.1	3818.9
7.5°	4585.9	4440.5	4254.8	4053.0	3905.0	3797.3	3724.7	3681.6	3668.1	3649.3	3649.3
10°	4736.6	4518.6	4192.9	3905.0	3727.4	3641.2	3608.9	3606.2	3619.7	3622.4	3617.0
12.5°	4903.4	4593.9	4101.4	3730.0	3579.3	3552.4	3576.6	3622.4	3668.1	3692.4	3687.0
15°	5075.7	4642.4	3945.3	3563.2	3471.7	3506.7	3584.7	3676.2	3765.0	3810.8	3808.1
17.5°	5237.1	4653.1	3743.5	3401.7	3377.5	3466.3	3600.9	3743.5	3864.6	3929.2	3931.9
20°	5417.4	4634.3	3536.3	3256.4	3283.3	3428.6	3606.2	3778.5	3921.1	3985.7	4001.9
22.5°	5581.6	4569.7	3334.4	3119.1	3202.6	3382.9	3563.2	3724.7	3851.1	3913.0	3934.6
25°	5729.6	4445.9	3113.8	3003.4	3140.7	3318.3	3455.5	3568.6	3657.4	3695.1	3724.7
27.5°	5810.4	4260.2	2946.9	2911.9	3081.5	3226.8	3302.1	3337.1	3366.7	3356.0	3377.5
30°	5826.5	4028.8	2801.6	2839.2	2992.6	3100.3	3116.4	3081.5	3030.3	2946.9	2965.7
32.5°	5810.4	3762.3	2680.5	2761.2	2893.1	2957.7	2936.1	2844.6	2720.8	2591.7	2599.7
35°	5815.7	3493.2	2580.9	2675.1	2777.3	2812.3	2758.5	2632.0	2500.2	2381.7	2376.4
37.5°	5875.0	3267.2	2497.5	2591.7	2664.3	2669.7	2610.5	2478.6	2411.3	2322.5	2311.8
40°	6039.1	3100.3	2422.1	2508.2	2554.0	2551.3	2484.0	2389.8	2435.6	2406.0	2397.9
42.5°	6308.2	2998.0	2360.2	2419.4	2451.7	2457.1	2403.3	2344.1	2443.6	2406.0	2392.5
45°	6741.5	2992.6	2317.1	2330.6	2381.7	2419.4	2381.7	2314.5	2352.1	2169.1	2134.1
47.5°	7255.6	3084.1	2284.9	2252.6	2341.4	2408.6	2349.4	2241.8	2163.7	1996.9	1972.7
50°	7874.5	3269.8	2255.2	2169.1	2282.2	2368.3	2309.1	2161.1	2042.6	1953.8	1940.4
52.5°	8609.2	3514.7	2217.6	2074.9	2193.4	2346.8	2309.1	2153.0	1996.9	1916.2	1902.7
55°	9378.9	3797.3	2174.5	1961.9	2093.8	2352.1	2327.9	2096.5	1961.9	1918.8	1908.1
57.5°	10334.3	4136.4	2096.5	1830.0	2005.0	2303.7	2252.6	2064.2	1937.7	1902.7	1891.9
60°	11575.0	4639.7	1948.4	1695.5	1902.7	2217.6	2185.3	2010.3	1873.1	1843.5	1835.4
62.5°	13539.6	5492.8	1768.1	1566.3	1781.6	2037.3	2085.7	1908.1	1792.4	1789.7	1787.0
65°	16742.1	6518.2	1555.5	1450.6	1655.1	1889.2	1953.8	1803.1	1708.9	1738.5	1735.8
67.5°	18986.6	6607.0	1380.6	1329.5	1507.1	1727.8	1822.0	1695.5	1593.2	1649.7	1647.0
70°	17390.7	5153.7	1229.9	1203.0	1348.3	1552.8	1679.3	1560.9	1458.6	1512.5	1501.7
72.5°	14667.2	3950.7	1087.3	1071.1	1186.8	1369.8	1496.3	1426.4	1318.7	1318.7	1294.5
75°	11787.6	3259.1	936.5	928.5	1006.5	1184.1	1326.8	1208.4	1108.8	1103.4	1087.3
77.5°	6760.4	2136.8	785.8	780.5	804.7	990.4	1030.7	1006.5	931.2	896.2	885.4
80°	2693.9	1111.5	619.0	584.0	608.2	726.6	812.8	772.4	707.8	664.7	640.5
82.5°	1044.2	557.1	436.0	382.2	417.1	524.8	589.4	575.9	532.9	436.0	409.1
85°	425.2	271.8	261.0	220.7	242.2	282.6	339.1	293.3	242.2	172.2	164.2
87.5°	113.0	99.6	96.9	59.2	45.8	13.5	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)