

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: P640232

Luminaire Tested: GWS-SA5D-740-U-SL2-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640232
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-27)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5D-740-U-SL2-W
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS
Light Source: (80) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29520.8 lumens
Efficiency: N/A
Efficacy: 144.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

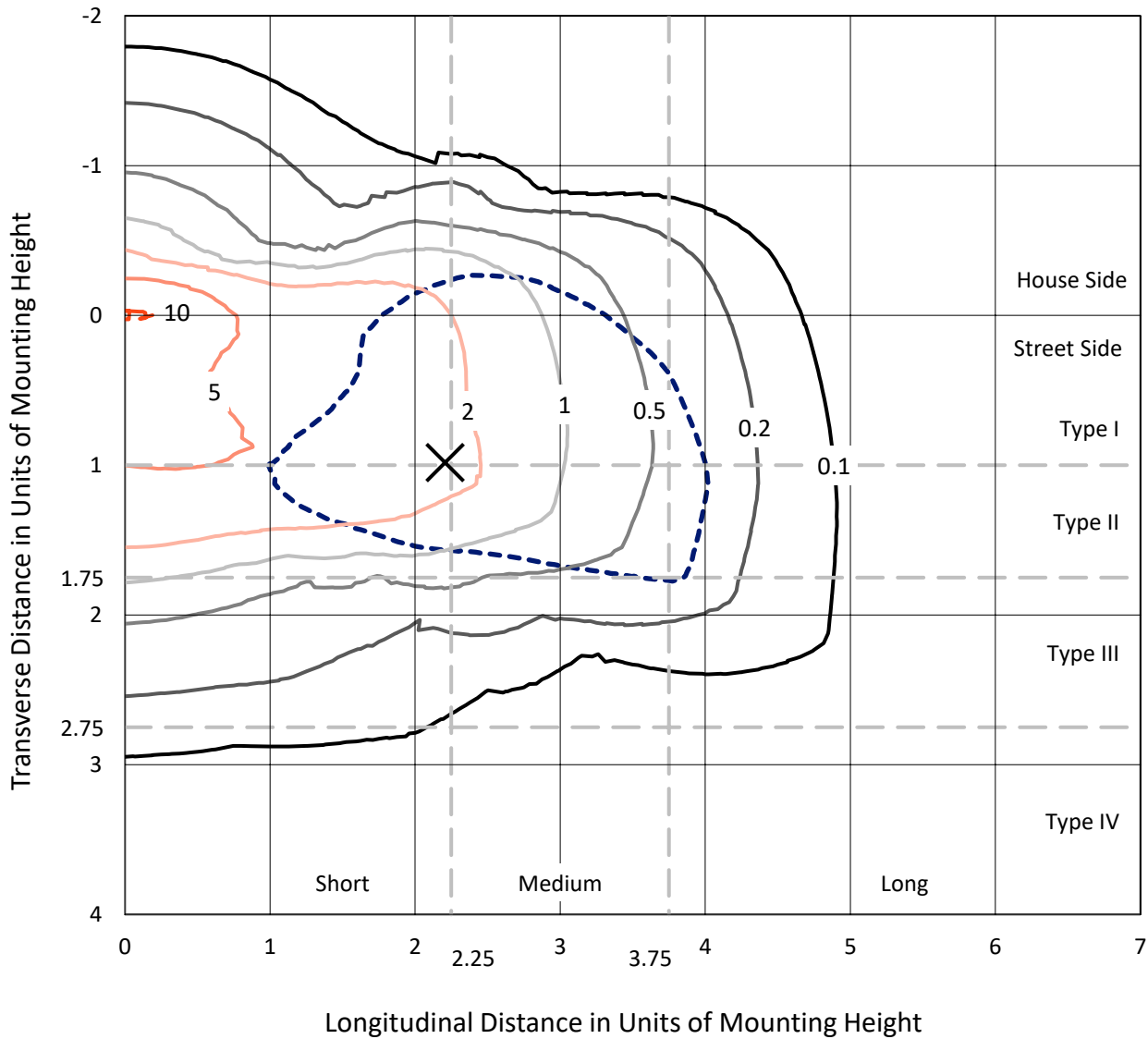
Input Watts (W): 204.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P640232
 CATALOG NUMBER: GWS-SA5D-740-U-SL2-W

Iso-Footcandle Lines of Horizontal Illumination

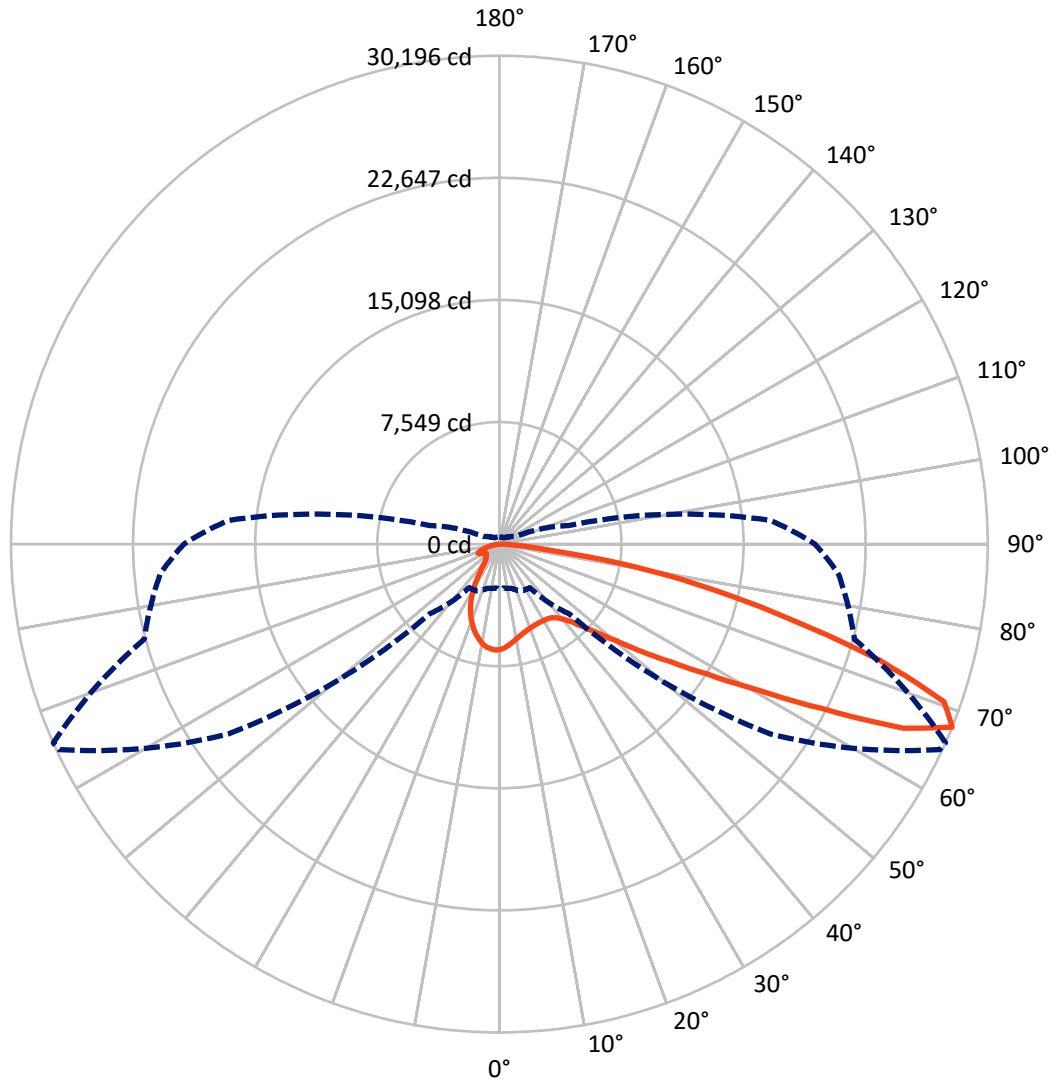
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.4 fc
 Type II - Short - N/A

REPORT NUMBER: P640232
CATALOG NUMBER: GWS-SA5D-740-U-SL2-W

Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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CATALOG NUMBER: GWS-SA5D-740-U-SL2-W

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5990.5	0.0	5990.5
	% Fixture	20.3	0.0	20.3
Street Side	Lumens	23530.3	0.0	23530.3
	% Fixture	79.7	0.0	79.7
Total	Lumens	29520.8	0.0	29520.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	572.5	1.9
10°-20°	1407.0	4.8
20°-30°	1933.9	6.6
30°-40°	2644.0	9.0
40°-50°	4006.4	13.6
50°-60°	6228.0	21.1
60°-70°	7582.5	25.7
70°-80°	4618.9	15.6
80°-90°	527.6	1.8
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°	29520.8	100.0
0°-180°	29520.8	100.0

Coefficient of Utilization



REPORT NUMBER: P640232

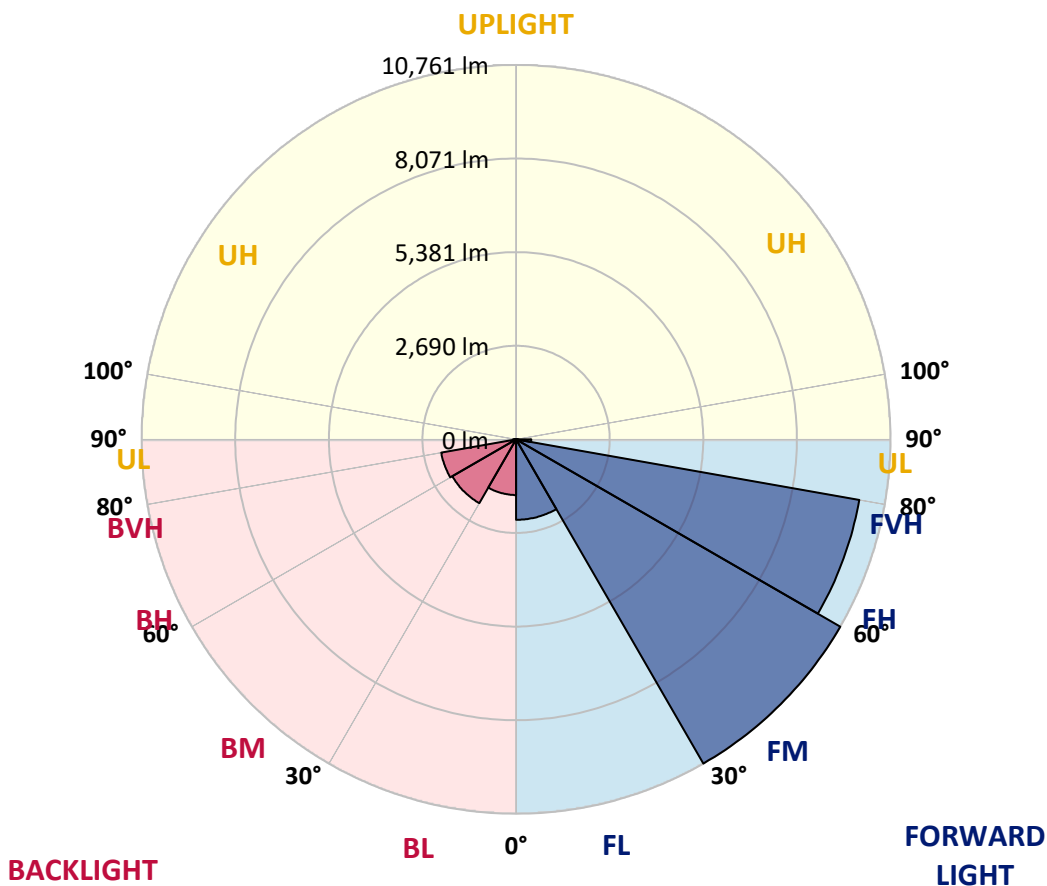
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2313.1	7.8			
FM (30°-60°)	10761.5	36.5			
FH (60°-80°)	10017.2	33.9			G4/12000
FVH (80°-90°)	438.6	1.5			G3/500
BL (0°-30°)	1600.3	5.4	B3/2500		
BM (30°-60°)	2117.0	7.2	B2/2500		
BH (60°-80°)	2184.2	7.4	B3/2500		G3/2500
BVH (80°-90°)	89.0	0.3			G1/100
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 Short





REPORT NUMBER: P640232

CATALOG NUMBER: GWS-SA5D-740-U-SL2-W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	6523.3	6523.3	6523.3	6523.3	6523.3	6523.3	6523.3	6523.3	6523.3	6523.3	6523.3
2.5°	6109.8	6131.3	6118.4	6200.2	6204.5	6307.9	6366.0	6415.6	6419.9	6484.5	6527.6
5°	5692.0	5704.9	5704.9	5782.4	5834.1	5971.9	6105.5	6247.6	6258.4	6413.4	6531.9
7.5°	5353.9	5366.8	5358.2	5461.5	5528.3	5681.2	5851.3	6068.8	6090.4	6340.2	6546.9
10°	5089.0	5084.7	5106.2	5200.9	5287.1	5470.1	5659.7	5907.3	5939.6	6256.2	6564.2
12.5°	4908.1	4912.4	4925.3	5024.4	5117.0	5297.9	5493.8	5763.0	5797.5	6159.3	6555.6
15°	4821.9	4813.3	4824.1	4914.5	5002.8	5162.2	5364.6	5642.4	5676.9	6073.2	6557.7
17.5°	4802.5	4796.1	4793.9	4858.5	4925.3	5073.9	5267.7	5549.8	5586.4	6017.2	6570.6
20°	4862.8	4854.2	4830.5	4858.5	4886.5	5011.4	5198.8	5483.1	5524.0	5980.6	6596.5
22.5°	5028.7	5013.6	4977.0	4942.5	4905.9	4981.3	5155.7	5433.5	5474.5	5956.9	6622.3
25°	5280.6	5267.7	5228.9	5151.4	5017.9	5005.0	5147.1	5412.0	5452.9	5939.6	6633.1
27.5°	5627.4	5608.0	5569.2	5457.2	5239.7	5093.3	5179.4	5409.8	5448.6	5920.3	6622.3
30°	6038.7	6025.8	6004.2	5868.6	5577.8	5280.6	5252.6	5427.1	5457.2	5909.5	6600.8
32.5°	6456.5	6443.6	6460.8	6396.2	6038.7	5590.7	5412.0	5474.5	5496.0	5907.3	6581.4
35°	6824.8	6839.8	6964.7	6975.5	6624.5	6010.7	5664.0	5584.3	5588.6	5950.4	6590.0
37.5°	7210.3	7268.4	7432.1	7572.1	7279.2	6566.3	6038.7	5791.0	5786.7	6060.2	6643.9
40°	7720.7	7746.5	7955.4	8218.1	8035.1	7328.7	6570.6	6129.1	6099.0	6284.2	6788.2
42.5°	8218.1	8280.6	8614.4	8915.9	8855.6	8188.0	7240.4	6635.2	6581.4	6680.5	7085.3
45°	8851.3	8911.6	9286.3	9674.0	9783.8	9159.3	8097.5	7354.5	7300.7	7277.0	7630.2
47.5°	9484.5	9546.9	9882.9	10442.8	10828.3	10373.9	9213.1	8304.3	8216.0	8123.4	8452.9
50°	9910.9	9984.1	10305.0	10976.9	11881.4	11890.0	10535.4	9549.1	9437.1	9290.6	9611.5
52.5°	9895.8	9943.2	10249.0	11024.3	12639.5	13632.3	12305.7	11134.1	11043.7	10724.9	11004.9
55°	9118.3	9189.4	9497.4	10466.5	12721.3	15284.1	14907.2	13003.4	12841.9	12271.2	12579.2
57.5°	7557.0	7617.3	7927.4	9122.7	11995.6	16130.5	18210.9	15385.3	15163.5	13955.3	14310.7
60°	5704.9	5631.7	5778.1	6824.8	10259.8	16152.0	21126.8	18615.7	18245.3	15755.7	16052.9
62.5°	4281.4	4208.1	4240.4	4535.5	6956.1	14846.9	22789.4	23034.9	22423.3	17788.7	17730.6
65°	3383.3	3342.4	3435.0	3637.4	4055.2	11306.4	22802.3	27813.8	27428.3	20144.8	19451.3
67.5°	2756.6	2730.8	2825.5	3200.3	3288.5	6075.3	20446.3	30044.9	30195.6	22724.8	21047.1
70°	2220.4	2181.6	2330.2	2823.4	3058.1	3676.2	14646.6	28907.8	29151.1	24262.5	20597.0
72.5°	1533.4	1535.5	1610.9	2287.1	2952.6	3174.4	8284.9	24070.8	24598.4	22869.1	18107.5
75°	1033.7	1042.3	1063.9	1509.7	2720.0	3079.7	4414.9	18223.8	18596.3	18902.2	14967.5
77.5°	624.5	628.9	678.4	913.1	1875.8	2875.1	2991.4	13210.2	13503.1	12460.7	9277.7
80°	361.8	376.9	422.1	611.6	1266.3	2160.1	2315.1	8099.7	8431.3	5539.1	2948.3
82.5°	159.4	170.1	230.4	355.3	738.7	1837.0	1806.9	3200.3	3152.9	1544.1	1023.0
85°	28.0	34.5	49.5	112.0	271.4	969.1	1402.0	1412.8	1328.8	585.8	424.3
87.5°	0.0	0.0	0.0	0.0	0.0	6.5	211.1	379.0	376.9	165.8	146.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P640232
 CATALOG NUMBER: GWS-SA5D-740-U-SL2-W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6523.3	6523.3	6523.3	6523.3	6523.3	6523.3	6523.3	6523.3	6523.3	6523.3	6523.3
2.5°	6555.6	6497.4	6549.1	6555.6	6544.8	6536.2	6471.6	6415.6	6409.1	6348.8	6348.8
5°	6579.3	6525.4	6551.3	6501.7	6424.2	6344.5	6206.7	6111.9	6068.8	5991.3	5991.3
7.5°	6611.6	6555.6	6525.4	6402.7	6221.8	6047.3	5825.5	5640.3	5564.9	5455.1	5450.8
10°	6641.7	6570.6	6467.3	6228.2	5939.6	5661.8	5338.8	5076.0	4897.3	4765.9	4765.9
12.5°	6639.6	6546.9	6342.4	5989.2	5590.7	5188.0	4757.3	4361.0	4124.1	3919.6	3906.6
15°	6635.2	6508.2	6183.0	5711.4	5183.7	4625.9	4040.2	3523.3	3172.3	2972.0	2954.7
17.5°	6630.9	6458.7	6004.2	5394.8	4688.4	3928.2	3155.0	2595.1	2302.2	2179.4	2183.8
20°	6630.9	6402.7	5812.6	5030.8	4117.7	3092.6	2315.1	1908.1	1834.9	1841.3	1847.8
22.5°	6611.6	6333.7	5599.4	4634.6	3482.4	2274.2	1707.8	1570.0	1608.7	1669.0	1677.7
25°	6566.3	6219.6	5351.7	4195.2	2726.5	1656.1	1393.4	1367.5	1438.6	1514.0	1535.5
27.5°	6495.3	6088.2	5073.9	3680.5	2007.2	1330.9	1225.4	1223.2	1279.2	1335.2	1354.6
30°	6419.9	5941.8	4781.0	3107.6	1453.7	1158.6	1117.7	1117.7	1145.7	1180.2	1175.9
32.5°	6331.6	5793.2	4466.6	2511.1	1184.5	1061.7	1048.8	1042.3	1046.7	1059.6	1059.6
35°	6256.2	5661.8	4143.5	1880.1	1061.7	1007.9	995.0	979.9	973.4	964.8	969.1
37.5°	6228.2	5558.4	3809.7	1417.1	1001.4	969.1	947.6	926.0	911.0	906.7	904.5
40°	6273.4	5515.4	3475.9	1167.3	958.4	928.2	904.5	876.5	863.6	863.6	863.6
42.5°	6450.0	5547.7	3135.6	1055.3	928.2	893.7	859.3	833.4	829.1	833.4	835.6
45°	6773.1	5672.6	2782.5	999.3	902.4	859.3	818.4	799.0	799.0	803.3	803.3
47.5°	7350.2	5999.9	2433.6	964.8	876.5	831.3	788.2	768.8	766.7	771.0	771.0
50°	8349.5	6590.0	2119.1	941.1	857.1	809.8	766.7	740.8	734.4	732.2	732.2
52.5°	9609.4	7613.0	1918.9	923.9	833.4	786.1	743.0	708.5	695.6	689.2	689.2
55°	11132.0	8976.2	1918.9	911.0	803.3	758.1	708.5	674.1	654.7	646.1	646.1
57.5°	12857.0	10563.4	2250.5	900.2	779.6	725.8	671.9	637.5	615.9	603.0	603.0
60°	14612.2	12241.1	3071.0	885.1	758.1	684.8	631.0	598.7	570.7	555.6	553.5
62.5°	16432.0	14088.9	4152.1	893.7	743.0	646.1	587.9	551.3	527.6	512.6	510.4
65°	18098.9	15848.4	5097.6	960.5	745.1	611.6	538.4	506.1	486.7	467.3	465.2
67.5°	19513.8	16819.6	4434.3	1096.2	790.4	570.7	488.9	456.6	439.3	426.4	424.3
70°	18523.1	15337.9	2515.4	1180.2	852.8	527.6	432.9	411.3	394.1	385.5	383.3
72.5°	15839.7	12986.2	1682.0	1042.3	777.5	471.6	381.2	364.0	351.0	340.3	338.1
75°	12831.2	10298.5	1285.7	855.0	605.2	383.3	327.3	314.4	301.5	290.7	288.6
77.5°	7591.4	5950.4	947.6	676.2	426.4	299.4	271.4	260.6	247.7	239.0	236.9
80°	2422.8	2067.5	600.9	465.2	282.1	230.4	208.9	200.3	187.4	176.6	174.4
82.5°	923.9	799.0	318.7	236.9	187.4	157.2	140.0	131.4	122.8	112.0	109.8
85°	409.2	383.3	176.6	127.1	101.2	77.5	68.9	64.6	53.8	45.2	43.1
87.5°	144.3	144.3	75.4	36.6	21.5	10.8	6.5	2.2	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)