

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: P637757

Luminaire Tested: GWS-SA4D-740-U-SL2-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637757
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-SA4D-740-U-SL2-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS
Light Source: (64) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24065 lumens
Efficiency: N/A
Efficacy: 148.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

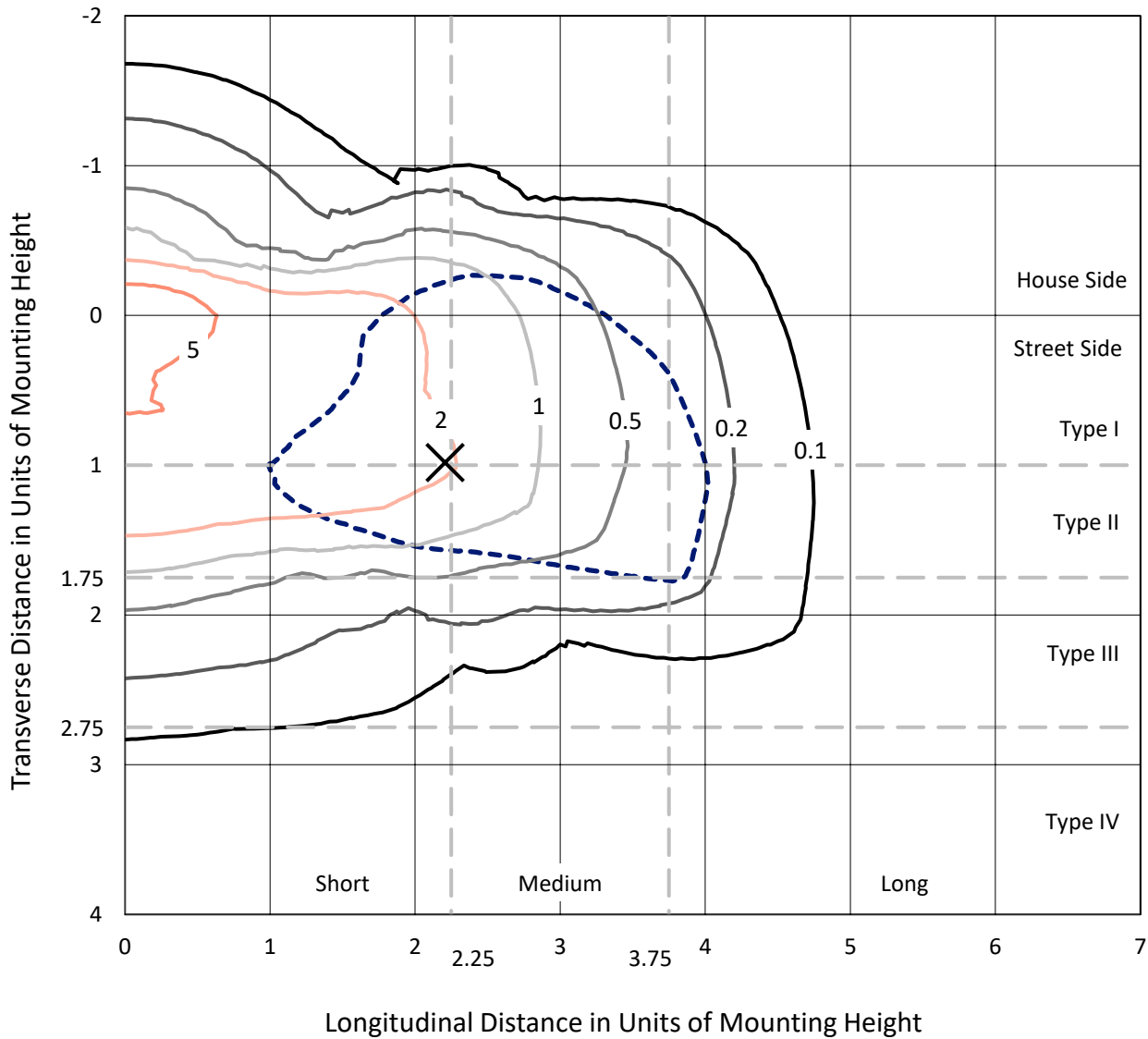
Input Watts (W): 162.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

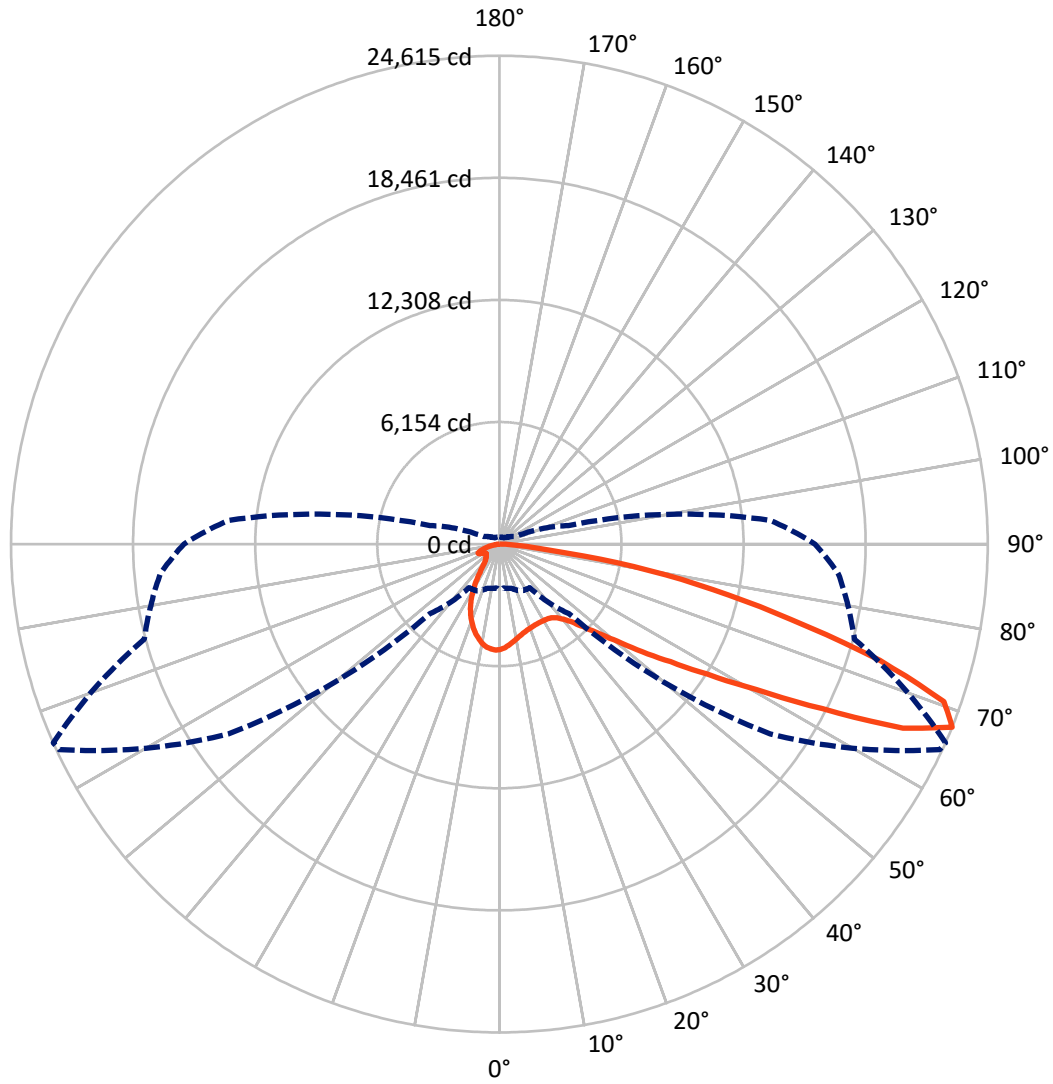
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4883.4	0.0	4883.4
	% Fixture	20.3	0.0	20.3
Street Side	Lumens	19181.7	0.0	19181.7
	% Fixture	79.7	0.0	79.7
Total	Lumens	24065.0	0.0	24065.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	466.7	1.9
10°-20°	1147.0	4.8
20°-30°	1576.5	6.6
30°-40°	2155.4	9.0
40°-50°	3265.9	13.6
50°-60°	5077.0	21.1
60°-70°	6181.2	25.7
70°-80°	3765.3	15.6
80°-90°	430.1	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°	24065.0	100.0
0°-180°	24065.0	100.0

Coefficient of Utilization



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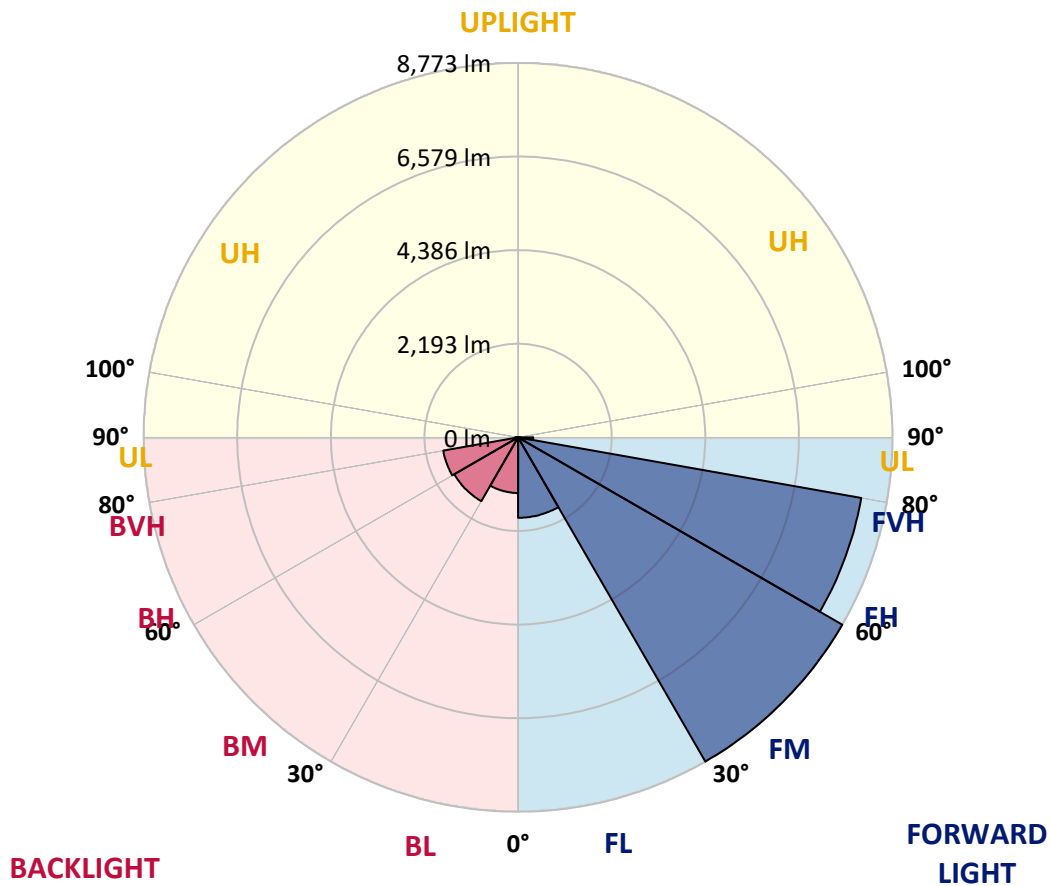
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1885.6	7.8			
FM (30°-60°)	8772.6	36.5			
FH (60°-80°)	8165.9	33.9			G4/12000
FVH (80°-90°)	357.6	1.5			G3/500
BL (0°-30°)	1304.6	5.4	B3/2500		
BM (30°-60°)	1725.7	7.2	B2/2500		
BH (60°-80°)	1780.6	7.4	B3/2500		G3/2500
BVH (80°-90°)	72.5	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	5317.7	5317.7	5317.7	5317.7	5317.7	5317.7	5317.7	5317.7	5317.7	5317.7	5317.7
2.5°	4980.6	4998.2	4987.6	5054.3	5057.9	5142.1	5189.5	5229.9	5233.4	5286.1	5321.2
5°	4640.0	4650.6	4650.6	4713.8	4755.9	4868.3	4977.1	5093.0	5101.7	5228.1	5324.7
7.5°	4364.4	4374.9	4367.9	4452.2	4506.6	4631.2	4769.9	4947.3	4964.8	5168.5	5337.0
10°	4148.5	4144.9	4162.5	4239.7	4310.0	4459.2	4613.7	4815.6	4841.9	5100.0	5351.0
12.5°	4001.0	4004.5	4015.0	4095.8	4171.3	4318.8	4478.5	4698.0	4726.0	5021.0	5344.0
15°	3930.8	3923.7	3932.5	4006.3	4078.2	4208.1	4373.2	4599.6	4627.7	4950.8	5345.8
17.5°	3915.0	3909.7	3907.9	3960.6	4015.0	4136.2	4294.2	4524.2	4554.0	4905.1	5356.3
20°	3964.1	3957.1	3937.8	3960.6	3983.4	4085.3	4238.0	4469.7	4503.1	4875.3	5377.4
22.5°	4099.3	4087.0	4057.2	4029.1	3999.2	4060.7	4202.9	4429.4	4462.7	4856.0	5398.4
25°	4304.7	4294.2	4262.6	4199.4	4090.5	4080.0	4195.9	4411.8	4445.2	4841.9	5407.2
27.5°	4587.4	4571.6	4540.0	4448.7	4271.4	4152.0	4222.2	4410.0	4441.6	4826.1	5398.4
30°	4922.7	4912.1	4894.6	4784.0	4547.0	4304.7	4281.9	4424.1	4448.7	4817.3	5380.9
32.5°	5263.3	5252.7	5266.8	5214.1	4922.7	4557.5	4411.8	4462.7	4480.3	4815.6	5365.1
35°	5563.5	5575.8	5677.6	5686.4	5400.2	4899.9	4617.2	4552.2	4555.8	4850.7	5372.1
37.5°	5877.7	5925.1	6058.5	6172.7	5933.9	5352.8	4922.7	4720.8	4717.3	4940.2	5416.0
40°	6293.8	6314.9	6485.1	6699.3	6550.1	5974.3	5356.3	4996.4	4971.8	5122.8	5533.6
42.5°	6699.3	6750.2	7022.4	7268.1	7219.0	6674.8	5902.3	5409.0	5365.1	5445.8	5775.9
45°	7215.5	7264.6	7570.1	7886.1	7975.6	7466.5	6601.0	5995.3	5951.4	5932.1	6220.1
47.5°	7731.6	7782.5	8056.4	8512.9	8827.1	8456.7	7510.4	6769.6	6697.6	6622.1	6890.7
50°	8079.2	8138.9	8400.5	8948.2	9685.6	9692.6	8588.3	7784.3	7693.0	7573.6	7835.2
52.5°	8066.9	8105.6	8354.9	8986.9	10303.6	11112.9	10031.4	9076.4	9002.7	8742.8	8971.1
55°	7433.2	7491.1	7742.2	8532.2	10370.3	12459.4	12152.2	10600.3	10468.6	10003.4	10254.4
57.5°	6160.4	6209.5	6462.3	7436.7	9778.6	13149.4	14845.3	12541.9	12361.1	11376.2	11665.9
60°	4650.6	4590.9	4710.2	5563.5	8363.6	13166.9	17222.3	15175.3	14873.4	12843.9	13086.2
62.5°	3490.1	3430.4	3456.8	3697.3	5670.6	12103.0	18577.7	18777.8	18279.2	14501.2	14453.8
65°	2758.0	2724.7	2800.2	2965.2	3305.8	9216.8	18588.2	22673.4	22359.2	16421.8	15856.5
67.5°	2247.2	2226.1	2303.3	2608.8	2680.8	4952.5	16667.6	24492.2	24615.1	18525.0	17157.4
70°	1810.0	1778.4	1899.5	2301.6	2492.9	2996.8	11939.8	23565.3	23763.7	19778.5	16790.5
72.5°	1250.0	1251.7	1313.2	1864.4	2406.9	2587.7	6753.8	19622.2	20052.3	18642.6	14761.0
75°	842.7	849.7	867.3	1230.7	2217.3	2510.5	3599.0	14855.8	15159.5	15408.8	12201.3
77.5°	509.1	512.6	553.0	744.4	1529.1	2343.7	2438.5	10768.8	11007.5	10157.8	7563.1
80°	294.9	307.2	344.1	498.6	1032.3	1760.9	1887.3	6602.8	6873.1	4515.4	2403.4
82.5°	129.9	138.7	187.8	289.7	602.2	1497.5	1472.9	2608.8	2570.2	1258.8	833.9
85°	22.8	28.1	40.4	91.3	221.2	790.0	1142.9	1151.7	1083.2	477.5	345.9
87.5°	0.0	0.0	0.0	0.0	0.0	5.3	172.0	309.0	307.2	135.2	119.4
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°	5317.7	5317.7	5317.7	5317.7	5317.7	5317.7	5317.7	5317.7	5317.7	5317.7	5317.7
2.5°	5344.0	5296.6	5338.7	5344.0	5335.2	5328.2	5275.5	5229.9	5224.6	5175.5	5175.5
5°	5363.3	5319.4	5340.5	5300.1	5236.9	5172.0	5059.6	4982.4	4947.3	4884.1	4884.1
7.5°	5389.7	5344.0	5319.4	5219.4	5071.9	4929.7	4748.9	4597.9	4536.4	4446.9	4443.4
10°	5414.2	5356.3	5272.0	5077.2	4841.9	4615.4	4352.1	4137.9	3992.2	3885.1	3885.1
12.5°	5412.5	5337.0	5170.2	4882.3	4557.5	4229.2	3878.1	3555.1	3362.0	3195.2	3184.6
15°	5409.0	5305.4	5040.3	4655.8	4225.7	3771.0	3293.5	2872.1	2586.0	2422.7	2408.7
17.5°	5405.5	5265.0	4894.6	4397.8	3821.9	3202.2	2571.9	2115.5	1876.7	1776.7	1780.2
20°	5405.5	5219.4	4738.3	4101.1	3356.7	2521.0	1887.3	1555.5	1495.8	1501.0	1506.3
22.5°	5389.7	5163.2	4564.5	3778.0	2838.8	1853.9	1392.2	1279.8	1311.4	1360.6	1367.6
25°	5352.8	5070.1	4362.6	3419.9	2222.6	1350.0	1135.9	1114.8	1172.7	1234.2	1251.7
27.5°	5294.9	4963.1	4136.2	3000.3	1636.2	1085.0	998.9	997.2	1042.8	1088.5	1104.3
30°	5233.4	4843.7	3897.4	2533.3	1185.0	944.5	911.2	911.2	934.0	962.1	958.6
32.5°	5161.4	4722.5	3641.1	2047.0	965.6	865.5	855.0	849.7	853.2	863.8	863.8
35°	5100.0	4615.4	3377.8	1532.6	865.5	821.6	811.1	798.8	793.5	786.5	790.0
37.5°	5077.2	4531.2	3105.6	1155.2	816.3	790.0	772.5	754.9	742.6	739.1	737.3
40°	5114.0	4496.1	2833.5	951.5	781.2	756.7	737.3	714.5	704.0	704.0	704.0
42.5°	5258.0	4522.4	2556.1	860.2	756.7	728.6	700.5	679.4	675.9	679.4	681.2
45°	5521.3	4624.2	2268.2	814.6	735.6	700.5	667.1	651.3	651.3	654.8	654.8
47.5°	5991.8	4891.1	1983.8	786.5	714.5	677.7	642.5	626.7	625.0	628.5	628.5
50°	6806.4	5372.1	1727.5	767.2	698.7	660.1	625.0	603.9	598.7	596.9	596.9
52.5°	7833.4	6206.0	1564.2	753.1	679.4	640.8	605.7	577.6	567.1	561.8	561.8
55°	9074.6	7317.3	1564.2	742.6	654.8	618.0	577.6	549.5	533.7	526.7	526.7
57.5°	10480.9	8611.2	1834.6	733.8	635.5	591.6	547.7	519.7	502.1	491.6	491.6
60°	11911.7	9978.8	2503.5	721.5	618.0	558.3	514.4	488.1	465.2	452.9	451.2
62.5°	13395.2	11485.1	3384.8	728.6	605.7	526.7	479.3	449.4	430.1	417.8	416.1
65°	14754.0	12919.4	4155.5	783.0	607.4	498.6	438.9	412.6	396.8	381.0	379.2
67.5°	15907.4	13711.2	3614.8	893.6	644.3	465.2	398.5	372.2	358.1	347.6	345.9
70°	15099.8	12503.3	2050.5	962.1	695.2	430.1	352.9	335.3	321.3	314.3	312.5
72.5°	12912.4	10586.2	1371.1	849.7	633.8	384.5	310.7	296.7	286.2	277.4	275.6
75°	10459.8	8395.2	1048.1	697.0	493.3	312.5	266.8	256.3	245.8	237.0	235.2
77.5°	6188.5	4850.7	772.5	551.3	347.6	244.0	221.2	212.4	201.9	194.9	193.1
80°	1975.0	1685.4	489.8	379.2	230.0	187.8	170.3	163.3	152.7	144.0	142.2
82.5°	753.1	651.3	259.8	193.1	152.7	128.2	114.1	107.1	100.1	91.3	89.5
85°	333.6	312.5	144.0	103.6	82.5	63.2	56.2	52.7	43.9	36.9	35.1
87.5°	117.6	117.6	61.4	29.8	17.6	8.8	5.3	1.8	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)