

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: P637717

Luminaire Tested: GWS-SA4D-735-U-T1-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637717
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-10)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4D-735-U-T1-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS
Light Source: (64) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24109.2 lumens
Efficiency: N/A
Efficacy: 148.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type I - Medium
BUG Rating: B4 - U0 - G4

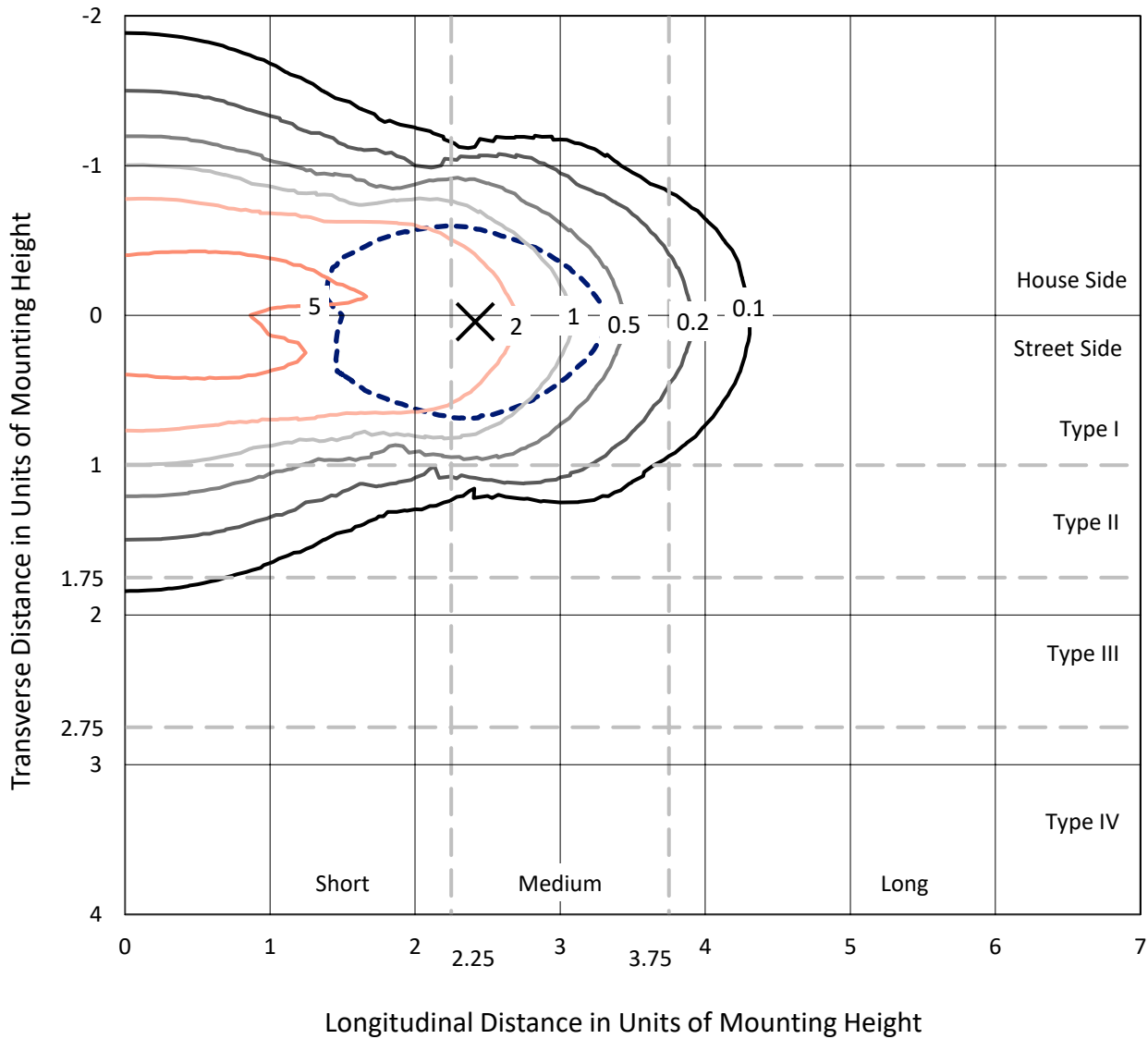
Input Watts (W): 162.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

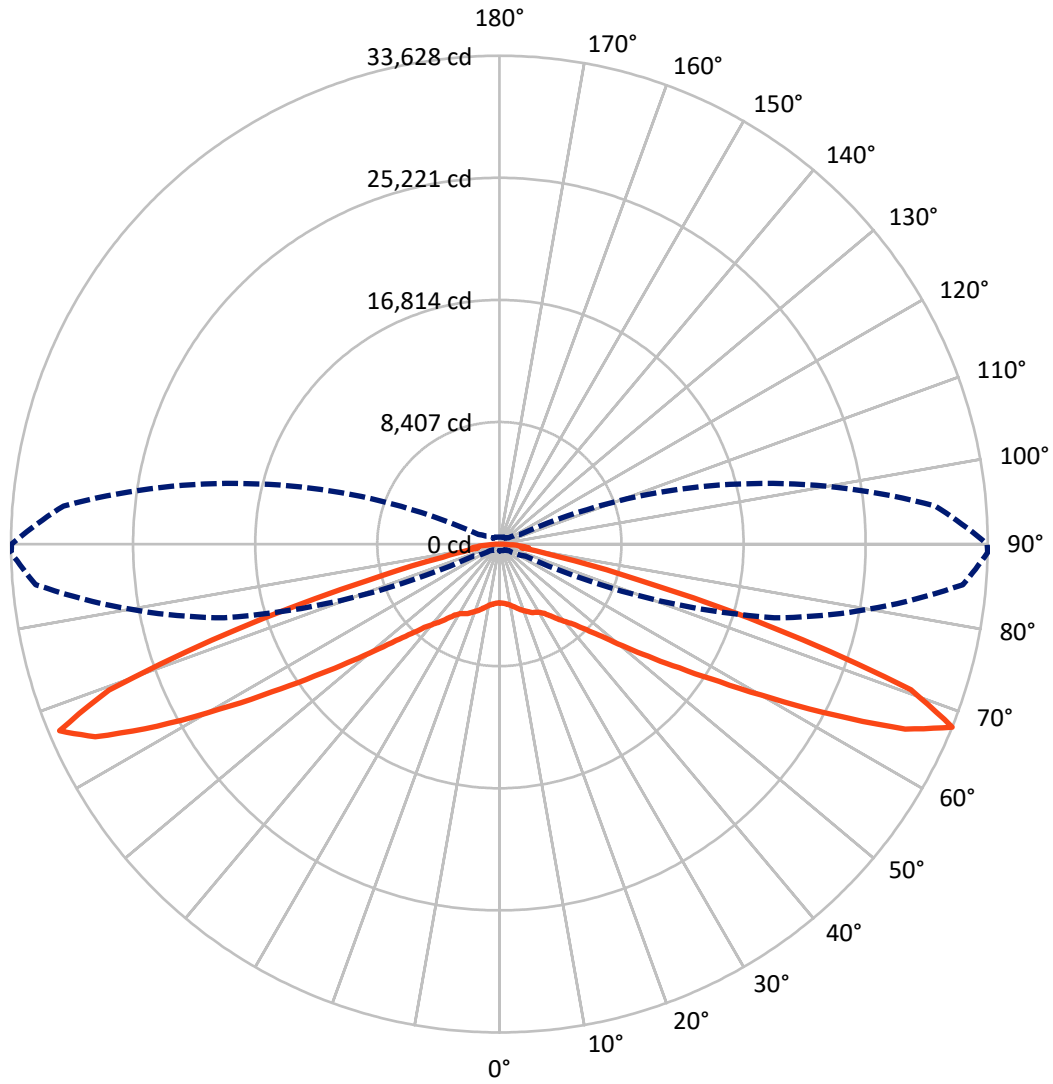
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 fc
 Type I - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 89-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11948.9	0.0	11948.9
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	12160.3	0.0	12160.3
	% Fixture	50.4	0.0	50.4
Total	Lumens	24109.2	0.0	24109.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	405.9	1.7
10°-20°	1321.7	5.5
20°-30°	2234.2	9.3
30°-40°	3066.2	12.7
40°-50°	3910.1	16.2
50°-60°	4905.8	20.3
60°-70°	5916.8	24.5
70°-80°	2140.5	8.9
80°-90°	208.2	0.9
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°	24109.2	100.0
0°-180°	24109.2	100.0

Coefficient of Utilization



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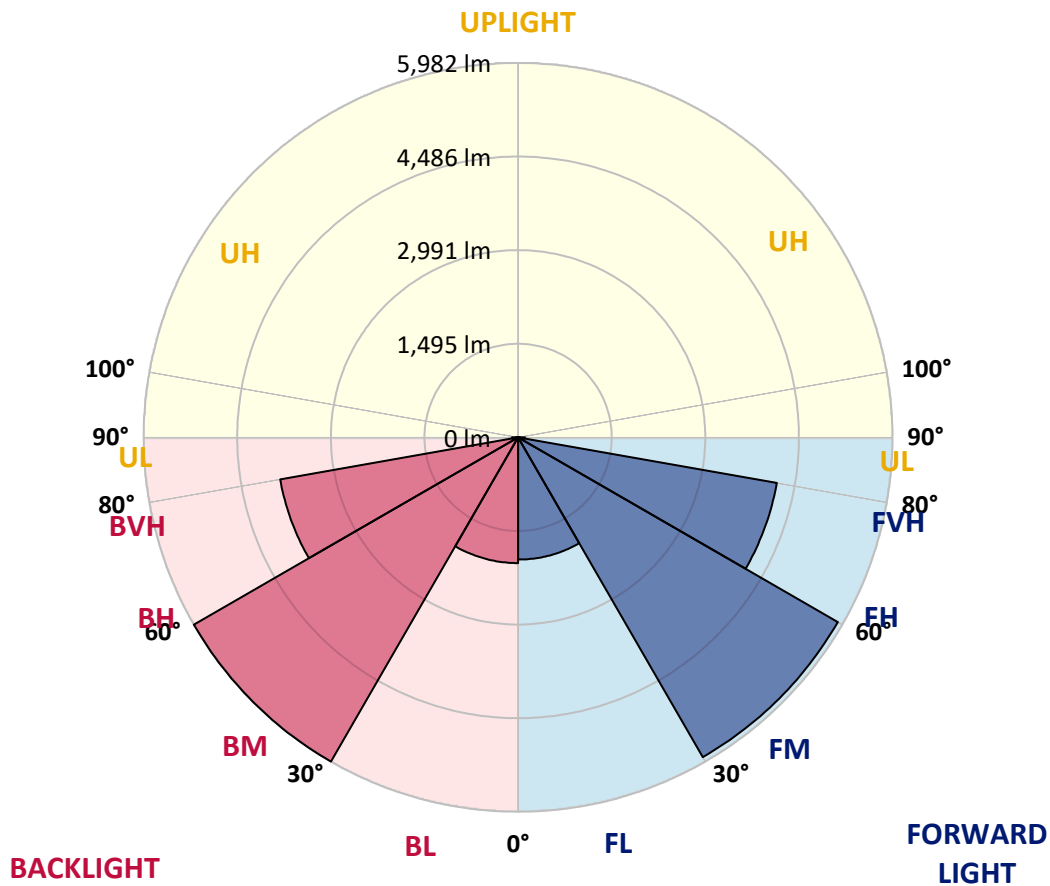
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1952.7	8.1			
FM (30°-60°)	5900.0	24.5			
FH (60°-80°)	4197.8	17.4			G2/5000
FVH (80°-90°)	109.8	0.5			G2/225
BL (0°-30°)	2009.1	8.3	B3/2500		
BM (30°-60°)	5982.0	24.8	B4/8500		
BH (60°-80°)	3859.5	16.0	B4/5000		G4/5000
BVH (80°-90°)	98.3	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type I Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	89°
0°	4046.5	4046.5	4046.5	4046.5	4046.5	4046.5	4046.5	4046.5	4046.5	4046.5	4046.5
2.5°	4058.7	4055.2	4046.5	4072.5	4067.3	4069.0	4079.4	4072.5	4060.4	4039.6	4069.0
5°	4172.9	4171.2	4152.2	4167.7	4150.4	4138.3	4136.6	4119.3	4105.4	4082.9	4114.1
7.5°	4283.8	4282.0	4266.4	4294.1	4280.3	4266.4	4250.9	4216.2	4183.3	4150.4	4185.1
10°	4368.6	4366.9	4363.4	4403.2	4406.7	4411.9	4405.0	4346.1	4288.9	4249.1	4283.8
12.5°	4417.1	4422.3	4430.9	4503.7	4540.0	4574.6	4583.3	4534.8	4439.6	4382.4	4424.0
15°	4384.2	4394.6	4437.9	4569.5	4669.9	4747.8	4780.7	4740.9	4617.9	4522.7	4569.5
17.5°	4226.6	4235.3	4320.1	4521.0	4742.6	4922.7	4976.4	4952.1	4815.3	4699.3	4744.3
20°	4008.4	4027.5	4119.3	4399.8	4730.5	5043.9	5187.6	5178.9	5030.0	4851.7	4905.4
22.5°	3811.0	3833.6	3930.5	4240.5	4649.1	5075.1	5400.6	5423.1	5225.7	5004.1	5047.3
25°	3589.4	3610.2	3734.9	4051.7	4508.8	5050.8	5582.4	5684.5	5447.3	5178.9	5218.8
27.5°	3362.6	3378.2	3501.1	3838.8	4325.3	5005.8	5726.1	5972.0	5665.5	5300.1	5327.9
30°	3163.5	3184.2	3296.8	3625.8	4124.5	4915.8	5843.8	6278.4	5916.6	5436.9	5459.4
32.5°	2971.3	2988.6	3111.5	3416.3	3911.5	4777.2	5949.5	6638.6	6288.8	5691.5	5691.5
35°	2728.9	2760.0	2898.5	3215.4	3710.6	4593.7	6025.6	7057.6	6797.9	6067.2	6068.9
37.5°	2505.5	2522.8	2668.3	2988.6	3499.4	4385.9	6032.6	7492.2	7442.0	6545.1	6548.6
40°	2251.0	2273.5	2429.3	2746.2	3257.0	4167.7	5966.8	7897.4	8117.3	7036.8	7017.8
42.5°	1993.0	2025.9	2174.8	2484.7	2995.5	3901.1	5791.9	8283.5	8974.4	7606.5	7559.8
45°	1743.6	1764.4	1913.3	2205.9	2696.0	3582.5	5511.4	8654.1	9992.5	8472.3	8404.7
47.5°	1463.1	1471.8	1625.9	1906.4	2386.0	3227.5	5109.7	8984.8	11111.1	9618.5	9502.5
50°	1213.8	1225.9	1347.1	1587.8	2006.8	2806.8	4609.3	9178.7	12536.1	11182.1	10981.2
52.5°	981.8	993.9	1090.9	1283.0	1658.8	2327.1	3989.4	9133.7	13981.9	13123.1	12830.5
55°	793.0	801.7	867.5	1018.1	1305.6	1851.0	3257.0	8730.3	15587.0	15658.0	15027.8
57.5°	670.1	673.6	718.6	810.3	1019.9	1426.8	2514.2	7777.9	17270.1	18892.5	17857.0
60°	599.1	600.8	621.6	678.8	805.2	1089.1	1842.3	6261.1	19013.7	22939.0	21519.2
62.5°	554.1	554.1	571.4	604.3	668.4	838.1	1354.0	4496.7	20265.6	27342.2	25931.1
65°	510.8	510.8	522.9	550.6	585.2	683.9	1016.4	2900.3	20880.3	31023.4	30710.0
67.5°	455.4	457.1	465.8	495.2	526.4	571.4	770.5	1961.8	19604.1	32041.6	33627.6
70°	403.4	405.2	417.3	436.3	462.3	493.5	602.6	1352.3	14269.4	26686.0	30067.6
72.5°	346.3	353.2	361.9	382.7	398.2	420.8	491.7	876.1	8302.6	17166.2	19876.0
75°	284.0	292.6	303.0	323.8	334.2	342.8	405.2	625.1	3994.6	8699.1	9906.0
77.5°	219.9	228.6	240.7	259.7	266.7	277.0	309.9	451.9	1913.3	3856.1	4157.4
80°	147.2	150.6	161.0	183.5	195.7	202.6	228.6	308.2	831.1	1548.0	1534.1
82.5°	90.0	91.8	95.2	109.1	114.3	121.2	148.9	188.7	396.5	1759.2	2017.2
85°	32.9	31.2	29.4	38.1	45.0	51.9	69.3	95.2	173.2	1208.6	1352.3
87.5°	0.0	0.0	0.0	1.7	3.5	3.5	6.9	13.9	41.6	451.9	309.9
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°	4046.5	4046.5	4046.5	4046.5	4046.5	4046.5	4046.5	4046.5	4046.5	4046.5	4046.5
2.5°	4060.4	4041.3	4065.6	4082.9	4121.0	4134.8	4138.3	4126.2	4126.2	4105.4	4108.9
5°	4107.1	4095.0	4134.8	4164.3	4219.7	4240.5	4254.3	4245.7	4250.9	4237.0	4240.5
7.5°	4178.1	4167.7	4237.0	4294.1	4351.3	4375.5	4387.6	4380.7	4382.4	4365.1	4370.3
10°	4276.8	4280.3	4363.4	4437.9	4514.0	4538.3	4543.5	4522.7	4505.4	4474.2	4475.9
12.5°	4411.9	4429.2	4546.9	4630.1	4708.0	4742.6	4704.5	4628.3	4557.3	4503.7	4496.7
15°	4559.1	4590.2	4759.9	4865.5	4950.4	4933.1	4820.5	4649.1	4508.8	4429.2	4413.6
17.5°	4735.7	4782.4	4995.4	5121.8	5194.5	5083.7	4848.2	4592.0	4396.3	4288.9	4268.2
20°	4901.9	4976.4	5244.7	5409.2	5417.9	5168.6	4836.1	4475.9	4230.1	4098.5	4070.8
22.5°	5054.3	5149.5	5506.2	5715.7	5603.2	5206.6	4761.6	4311.5	4029.2	3875.1	3850.9
25°	5220.5	5355.6	5810.9	6006.6	5788.4	5191.1	4605.8	4107.1	3786.8	3629.2	3611.9
27.5°	5334.8	5504.5	6117.4	6304.4	5940.8	5102.8	4405.0	3883.8	3565.2	3416.3	3392.0
30°	5466.4	5682.8	6455.1	6628.2	6034.3	4972.9	4190.3	3676.0	3359.1	3198.1	3180.8
32.5°	5705.3	5977.2	6874.1	6971.1	6063.7	4811.9	3984.2	3475.1	3144.4	2983.4	2959.1
35°	6089.7	6408.3	7462.8	7353.7	6041.2	4635.2	3788.5	3239.7	2924.5	2773.9	2749.6
37.5°	6574.5	6971.1	8119.0	7698.3	5978.9	4441.3	3556.5	3042.3	2727.1	2574.8	2560.9
40°	7026.5	7514.7	8854.9	7996.1	5852.5	4202.4	3333.2	2836.2	2514.2	2353.1	2322.0
42.5°	7592.7	8242.0	9706.8	8254.1	5644.7	3916.7	3082.1	2581.7	2247.5	2102.1	2064.0
45°	8453.2	9260.1	10697.3	8501.7	5334.8	3565.2	2767.0	2271.7	1954.9	1806.0	1776.5
47.5°	9526.8	10532.8	11770.8	8648.9	4863.8	3194.6	2410.3	1944.5	1627.6	1459.7	1445.8
50°	11034.9	12383.7	12922.2	8622.9	4337.4	2754.8	2008.5	1554.9	1290.0	1168.8	1149.7
52.5°	12872.0	14707.4	14167.2	8311.2	3778.2	2254.4	1565.3	1220.7	1023.3	936.7	921.2
55°	15176.7	17490.0	15478.0	7642.9	3071.7	1726.3	1229.4	962.7	827.7	775.7	768.8
57.5°	18030.2	21093.2	16740.2	6517.4	2309.8	1317.7	947.1	794.8	730.7	699.5	697.8
60°	21796.2	24918.1	17836.3	5064.7	1653.6	1007.7	782.6	709.9	659.7	638.9	637.2
62.5°	26273.9	28391.5	18518.5	3449.2	1243.2	803.4	689.1	644.1	614.7	602.6	600.8
65°	30876.3	30587.1	18193.0	2259.6	943.7	682.2	618.1	593.9	567.9	555.8	555.8
67.5°	33594.7	30123.1	15694.4	1568.7	748.0	599.1	557.5	535.0	491.7	481.4	481.4
70°	29756.0	24409.1	10286.9	1148.0	606.0	524.6	484.8	453.7	436.3	426.0	424.2
72.5°	19680.3	15883.1	5469.8	796.5	505.6	446.7	410.4	398.2	377.5	367.1	365.3
75°	9795.1	8342.4	2803.3	574.9	420.8	358.4	342.8	337.6	320.3	306.5	303.0
77.5°	4082.9	3714.1	1307.3	417.3	320.3	289.2	275.3	275.3	256.3	240.7	233.8
80°	1539.3	1371.4	618.1	285.7	237.2	214.7	206.0	199.1	183.5	164.5	154.1
82.5°	2058.8	1345.4	303.0	178.3	155.8	138.5	126.4	121.2	112.5	103.9	97.0
85°	1333.3	955.8	136.8	91.8	77.9	58.9	51.9	48.5	43.3	38.1	34.6
87.5°	271.8	320.3	41.6	17.3	10.4	5.2	5.2	1.7	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)