

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: P636232

Luminaire Tested: GWS-SA3F-735-U-T1-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P636232
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-SA3F-735-U-T1-W
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS
Light Source: (48) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24071.4 lumens
Efficiency: N/A
Efficacy: 131.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type I - Medium
BUG Rating: B4 - U0 - G4

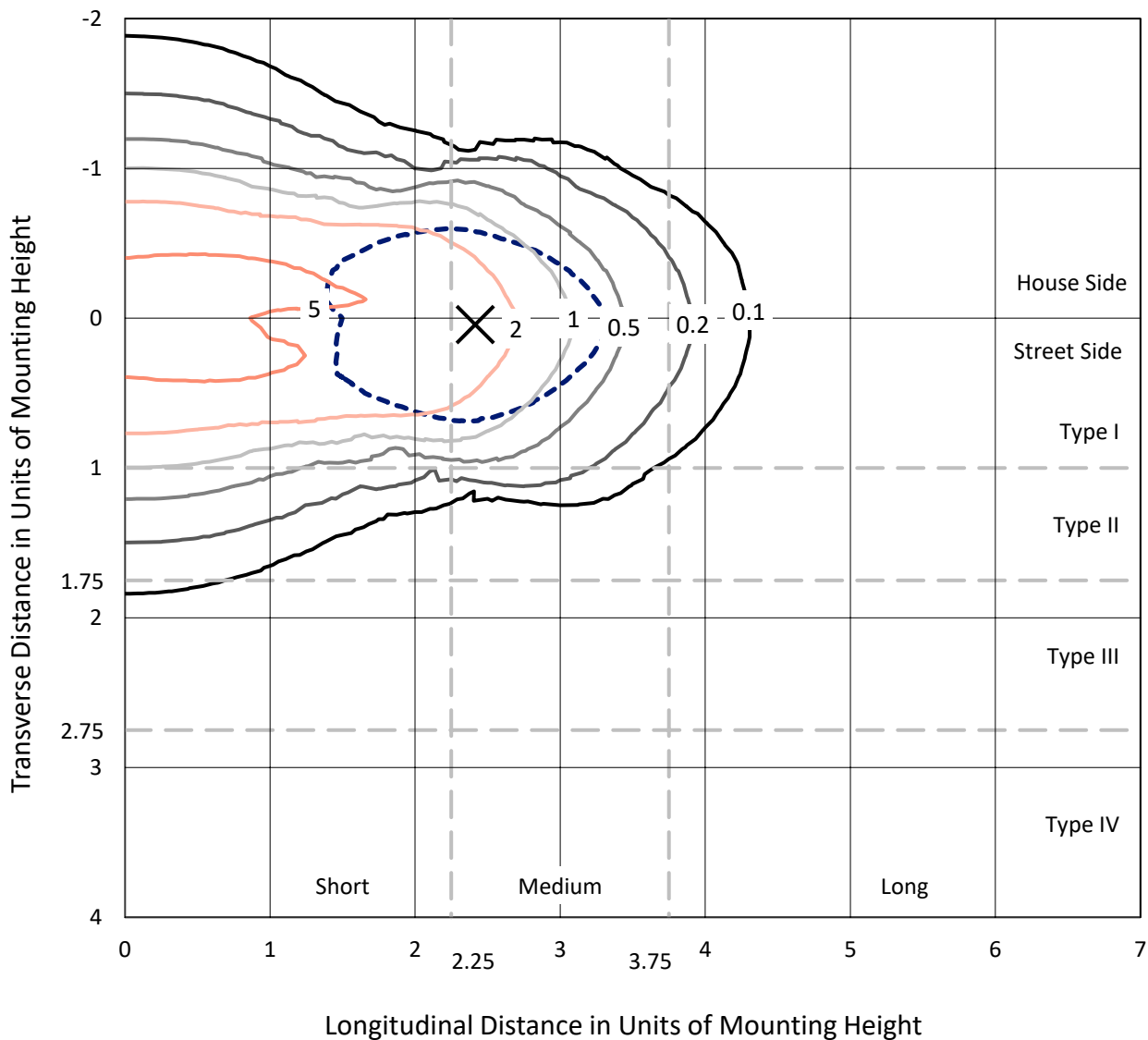
Input Watts (W): 183.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

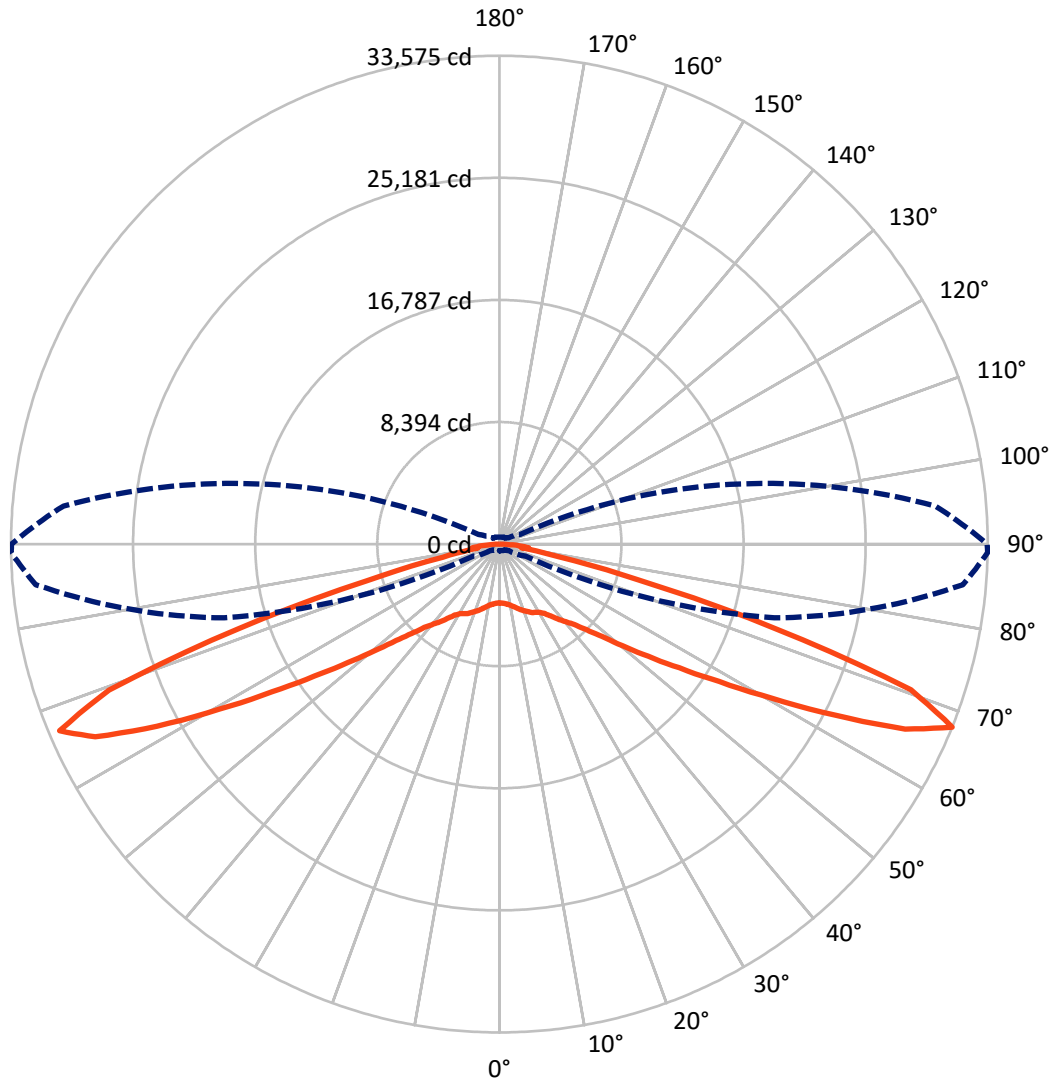
✕ Max cd
 - - - 1/2 Max cd



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	11930.2	0.0	11930.2
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	12141.2	0.0	12141.2
	% Fixture	50.4	0.0	50.4
Total	Lumens	24071.4	0.0	24071.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	405.3	1.7
10°-20°	1319.6	5.5
20°-30°	2230.7	9.3
30°-40°	3061.4	12.7
40°-50°	3903.9	16.2
50°-60°	4898.1	20.3
60°-70°	5907.5	24.5
70°-80°	2137.1	8.9
80°-90°	207.8	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°	24071.4	100.0
0°-180°	24071.4	100.0

Coefficient of Utilization



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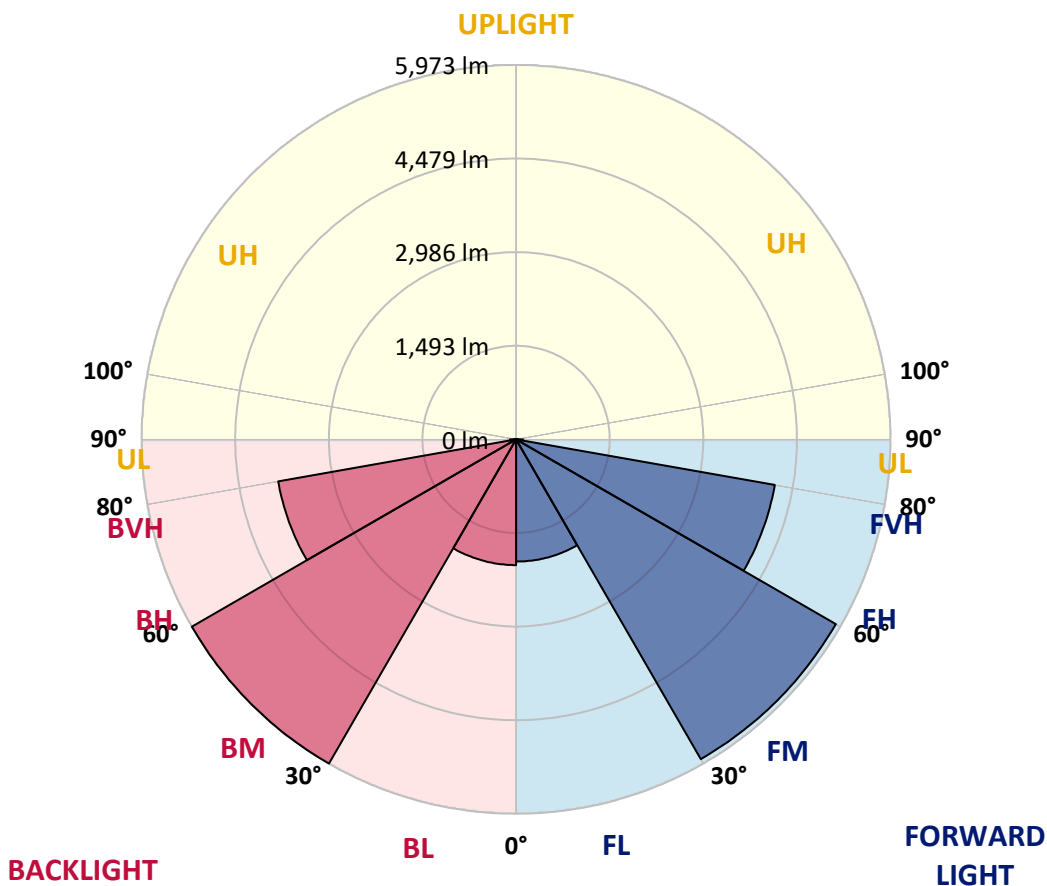
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1949.6	8.1			
FM (30°-60°)	5890.7	24.5			
FH (60°-80°)	4191.2	17.4			G2/5000
FVH (80°-90°)	109.7	0.5			G2/225
BL (0°-30°)	2006.0	8.3	B3/2500		
BM (30°-60°)	5972.6	24.8	B4/8500		
BH (60°-80°)	3853.5	16.0	B4/5000		G4/5000
BVH (80°-90°)	98.2	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°	4040.2	4040.2	4040.2	4040.2	4040.2	4040.2	4040.2	4040.2	4040.2	4040.2	4040.2
2.5°	4052.3	4048.8	4040.2	4066.1	4060.9	4062.7	4073.0	4066.1	4054.0	4033.3	4062.7
5°	4166.4	4164.7	4145.6	4161.2	4143.9	4131.8	4130.1	4112.8	4099.0	4076.5	4107.6
7.5°	4277.0	4275.3	4259.7	4287.4	4273.6	4259.7	4244.2	4209.6	4176.8	4143.9	4178.5
10°	4361.7	4360.0	4356.6	4396.3	4399.8	4405.0	4398.1	4339.3	4282.2	4242.5	4277.0
12.5°	4410.2	4415.3	4424.0	4496.6	4532.9	4567.5	4576.1	4527.7	4432.6	4375.6	4417.1
15°	4377.3	4387.7	4430.9	4562.3	4662.6	4740.4	4773.2	4733.4	4610.7	4515.6	4562.3
17.5°	4220.0	4228.6	4313.3	4513.9	4735.2	4915.0	4968.6	4944.3	4807.8	4691.9	4736.9
20°	4002.2	4021.2	4112.8	4392.9	4723.1	5036.0	5179.5	5170.8	5022.1	4844.1	4897.7
22.5°	3805.1	3827.5	3924.4	4233.8	4641.8	5067.1	5392.1	5414.6	5217.5	4996.2	5039.4
25°	3583.8	3604.5	3729.0	4045.4	4501.8	5042.9	5573.6	5675.6	5438.8	5170.8	5210.6
27.5°	3357.3	3372.9	3495.6	3832.7	4318.5	4997.9	5717.1	5962.6	5656.6	5291.8	5319.5
30°	3158.5	3179.3	3291.6	3620.1	4118.0	4908.0	5834.7	6268.6	5907.3	5428.4	5450.9
32.5°	2966.6	2983.9	3106.6	3410.9	3905.3	4769.7	5940.1	6628.2	6279.0	5682.5	5682.5
35°	2724.6	2755.7	2894.0	3210.4	3704.8	4586.5	6016.2	7046.6	6787.2	6057.7	6059.4
37.5°	2501.6	2518.9	2664.1	2983.9	3493.9	4379.0	6023.1	7480.5	7430.4	6534.8	6538.3
40°	2247.4	2269.9	2425.5	2741.9	3251.9	4161.2	5957.4	7885.0	8104.6	7025.8	7006.8
42.5°	1989.8	2022.7	2171.4	2480.8	2990.8	3895.0	5782.8	8270.5	8960.3	7594.6	7547.9
45°	1740.9	1761.6	1910.3	2202.5	2691.7	3576.9	5502.7	8640.5	9976.9	8459.0	8391.6
47.5°	1460.8	1469.5	1623.3	1903.4	2382.3	3222.5	5101.7	8970.7	11093.7	9603.4	9487.6
50°	1211.9	1224.0	1345.0	1585.3	2003.7	2802.4	4602.0	9164.3	12516.5	11164.5	10964.0
52.5°	980.2	992.3	1089.1	1281.0	1656.2	2323.5	3983.1	9119.4	13960.0	13102.5	12810.4
55°	791.8	800.4	866.1	1016.5	1303.5	1848.1	3251.9	8716.6	15562.6	15633.5	15004.2
57.5°	669.0	672.5	717.4	809.1	1018.3	1424.5	2510.2	7765.7	17243.0	18862.9	17829.0
60°	598.2	599.9	620.6	677.7	803.9	1087.4	1839.4	6251.3	18983.9	22903.1	21485.4
62.5°	553.2	553.2	570.5	603.3	667.3	836.7	1351.9	4489.7	20233.8	27299.4	25890.4
65°	510.0	510.0	522.1	549.8	584.3	682.9	1014.8	2895.7	20847.5	30974.8	30661.9
67.5°	454.7	456.4	465.0	494.4	525.6	570.5	769.3	1958.7	19573.4	31991.3	33574.9
70°	402.8	404.5	416.6	435.7	461.6	492.7	601.6	1350.2	14247.0	26644.2	30020.5
72.5°	345.8	352.7	361.3	382.1	397.6	420.1	491.0	874.8	8289.6	17139.3	19844.8
75°	283.5	292.2	302.5	323.3	333.7	342.3	404.5	624.1	3988.3	8685.5	9890.4
77.5°	219.6	228.2	240.3	259.3	266.2	276.6	309.5	451.2	1910.3	3850.0	4150.8
80°	146.9	150.4	160.8	183.3	195.4	202.3	228.2	307.7	829.8	1545.5	1531.7
82.5°	89.9	91.6	95.1	108.9	114.1	121.0	148.7	188.4	395.9	1756.5	2014.0
85°	32.8	31.1	29.4	38.0	44.9	51.9	69.2	95.1	172.9	1206.7	1350.2
87.5°	0.0	0.0	0.0	1.7	3.5	3.5	6.9	13.8	41.5	451.2	309.5
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°	4040.2	4040.2	4040.2	4040.2	4040.2	4040.2	4040.2	4040.2	4040.2	4040.2	4040.2
2.5°	4054.0	4035.0	4059.2	4076.5	4114.5	4128.4	4131.8	4119.7	4119.7	4099.0	4102.4
5°	4100.7	4088.6	4128.4	4157.7	4213.1	4233.8	4247.6	4239.0	4244.2	4230.4	4233.8
7.5°	4171.6	4161.2	4230.4	4287.4	4344.5	4368.7	4380.8	4373.8	4375.6	4358.3	4363.5
10°	4270.1	4273.6	4356.6	4430.9	4507.0	4531.2	4536.4	4515.6	4498.3	4467.2	4468.9
12.5°	4405.0	4422.3	4539.8	4622.8	4700.6	4735.2	4697.1	4621.1	4550.2	4496.6	4489.7
15°	4551.9	4583.0	4752.5	4857.9	4942.6	4925.3	4813.0	4641.8	4501.8	4422.3	4406.7
17.5°	4728.3	4774.9	4987.6	5113.8	5186.4	5075.7	4840.6	4584.8	4389.4	4282.2	4261.5
20°	4894.2	4968.6	5236.5	5400.8	5409.4	5160.4	4828.5	4468.9	4223.4	4092.1	4064.4
22.5°	5046.3	5141.4	5497.6	5706.7	5594.4	5198.5	4754.2	4304.7	4022.9	3869.0	3844.8
25°	5212.3	5347.2	5801.8	5997.2	5779.4	5182.9	4598.6	4100.7	3780.9	3623.6	3606.3
27.5°	5326.4	5495.8	6107.8	6294.5	5931.5	5094.8	4398.1	3877.7	3559.6	3410.9	3386.7
30°	5457.8	5673.9	6444.9	6617.8	6024.8	4965.1	4183.7	3670.2	3353.9	3193.1	3175.8
32.5°	5696.4	5967.8	6863.3	6960.1	6054.2	4804.3	3978.0	3469.7	3139.5	2978.7	2954.5
35°	6080.2	6398.3	7451.1	7342.2	6031.8	4628.0	3782.6	3234.6	2919.9	2769.5	2745.3
37.5°	6564.2	6960.1	8106.3	7686.2	5969.5	4434.4	3550.9	3037.5	2722.8	2570.7	2556.9
40°	7015.4	7503.0	8841.1	7983.6	5843.3	4195.8	3327.9	2831.8	2510.2	2349.4	2318.3
42.5°	7580.8	8229.1	9691.6	8241.2	5635.9	3910.5	3077.3	2577.6	2244.0	2098.8	2060.7
45°	8440.0	9245.6	10680.5	8488.4	5326.4	3559.6	2762.6	2268.2	1951.8	1803.1	1773.7
47.5°	9511.8	10516.3	11752.3	8635.3	4856.2	3189.6	2406.5	1941.4	1625.1	1457.4	1443.5
50°	11017.6	12364.3	12902.0	8609.4	4330.6	2750.5	2005.4	1552.5	1288.0	1166.9	1147.9
52.5°	12851.9	14684.4	14145.0	8298.2	3772.2	2250.9	1562.8	1218.8	1021.7	935.3	919.7
55°	15152.9	17462.5	15453.7	7630.9	3066.9	1723.6	1227.4	961.2	826.4	774.5	767.6
57.5°	18001.9	21060.2	16714.0	6507.2	2306.2	1315.6	945.7	793.5	729.6	698.4	696.7
60°	21762.1	24879.1	17808.3	5056.7	1651.0	1006.2	781.4	708.8	658.7	637.9	636.2
62.5°	26232.7	28347.0	18489.4	3443.8	1241.3	802.2	688.1	643.1	613.7	601.6	599.9
65°	30827.8	30539.1	18164.4	2256.1	942.2	681.1	617.2	593.0	567.0	554.9	554.9
67.5°	33542.1	30075.8	15669.8	1566.3	746.8	598.2	556.7	534.2	491.0	480.6	480.6
70°	29709.3	24370.8	10270.8	1146.2	605.1	523.8	484.1	452.9	435.7	425.3	423.6
72.5°	19649.5	15858.2	5461.3	795.2	504.8	446.0	409.7	397.6	376.9	366.5	364.8
75°	9779.8	8329.3	2798.9	574.0	420.1	357.9	342.3	337.1	319.8	306.0	302.5
77.5°	4076.5	3708.3	1305.2	416.6	319.8	288.7	274.9	274.9	255.9	240.3	233.4
80°	1536.9	1369.2	617.2	285.3	236.8	214.4	205.7	198.8	183.3	164.2	153.9
82.5°	2055.5	1343.3	302.5	178.1	155.6	138.3	126.2	121.0	112.4	103.7	96.8
85°	1331.2	954.3	136.6	91.6	77.8	58.8	51.9	48.4	43.2	38.0	34.6
87.5°	271.4	319.8	41.5	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)