

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: P643657

Luminaire Tested: GWS-SA6F-735-U-T1-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P643657
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-SA6F-735-U-T1-W
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS
Light Source: (96) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 48998.2 lumens
Efficiency: N/A
Efficacy: 131.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Medium
BUG Rating: B5 - U0 - G5

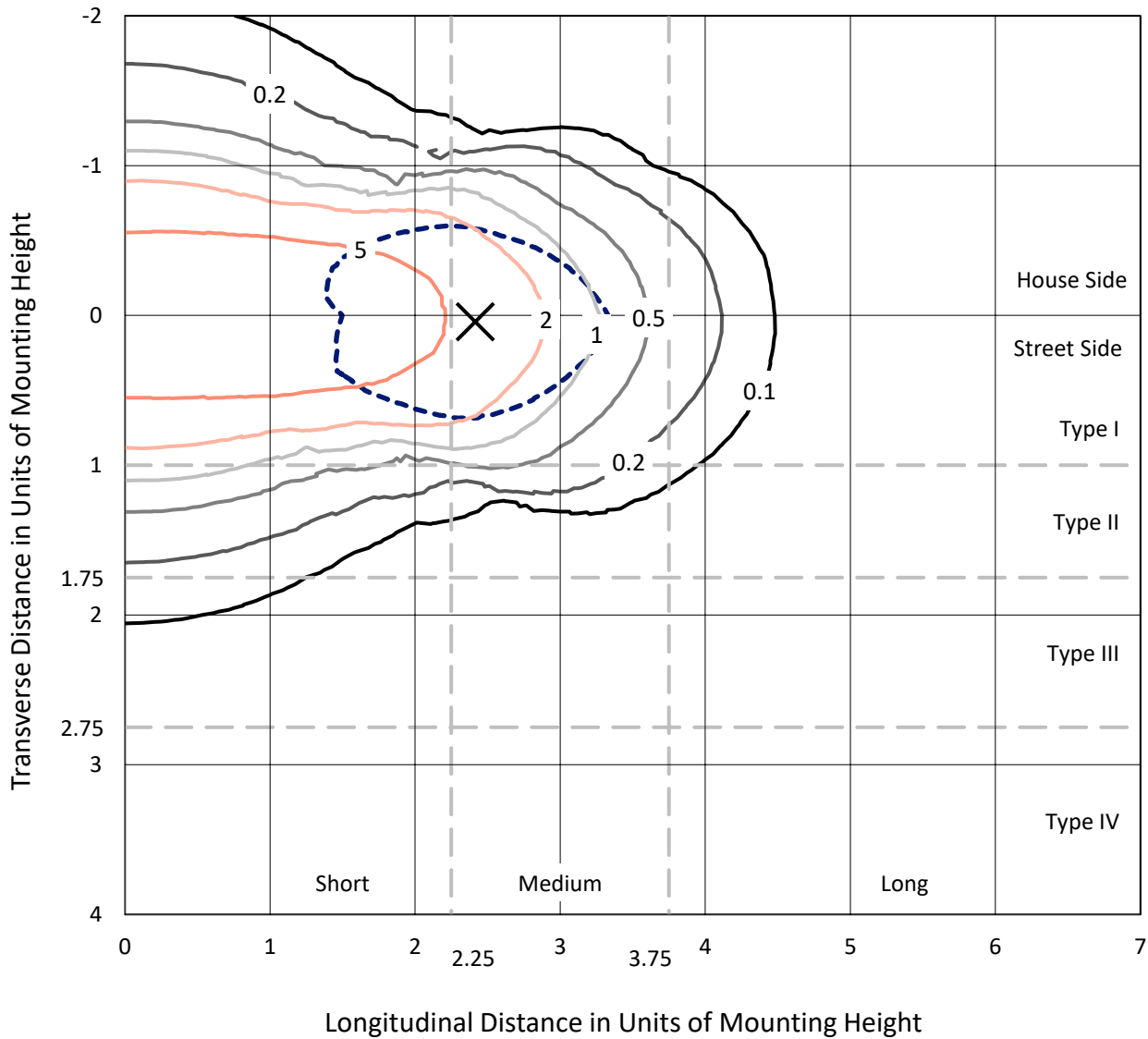
Input Watts (W): 372.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

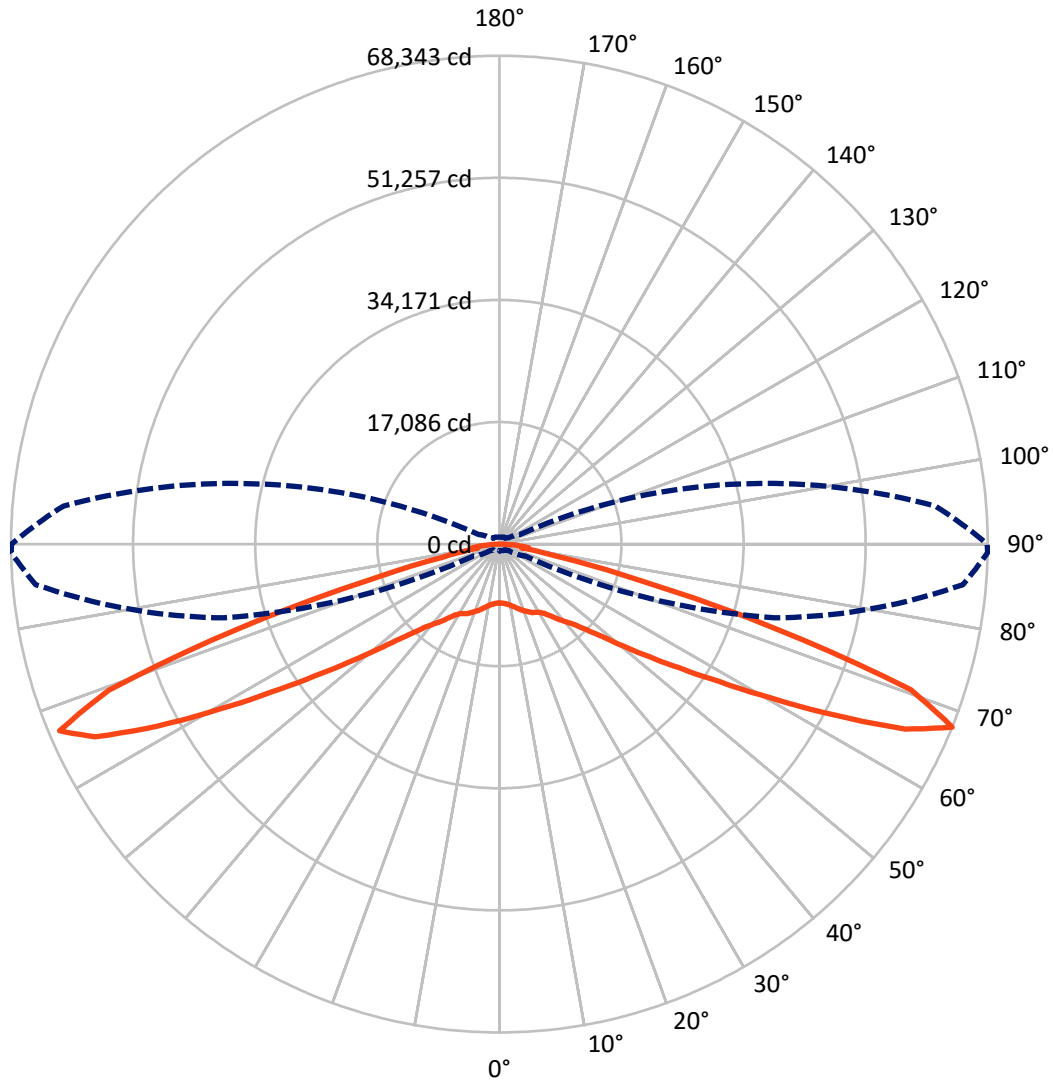
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 10 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	24284.4	0.0	24284.4
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	24713.8	0.0	24713.8
	% Fixture	50.4	0.0	50.4
Total	Lumens	48998.2	0.0	48998.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	824.9	1.7
10°-20°	2686.1	5.5
20°-30°	4540.7	9.3
30°-40°	6231.5	12.7
40°-50°	7946.6	16.2
50°-60°	9970.2	20.3
60°-70°	12024.9	24.5
70°-80°	4350.2	8.9
80°-90°	423.0	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°	48998.2	100.0
0°-180°	48998.2	100.0

Coefficient of Utilization



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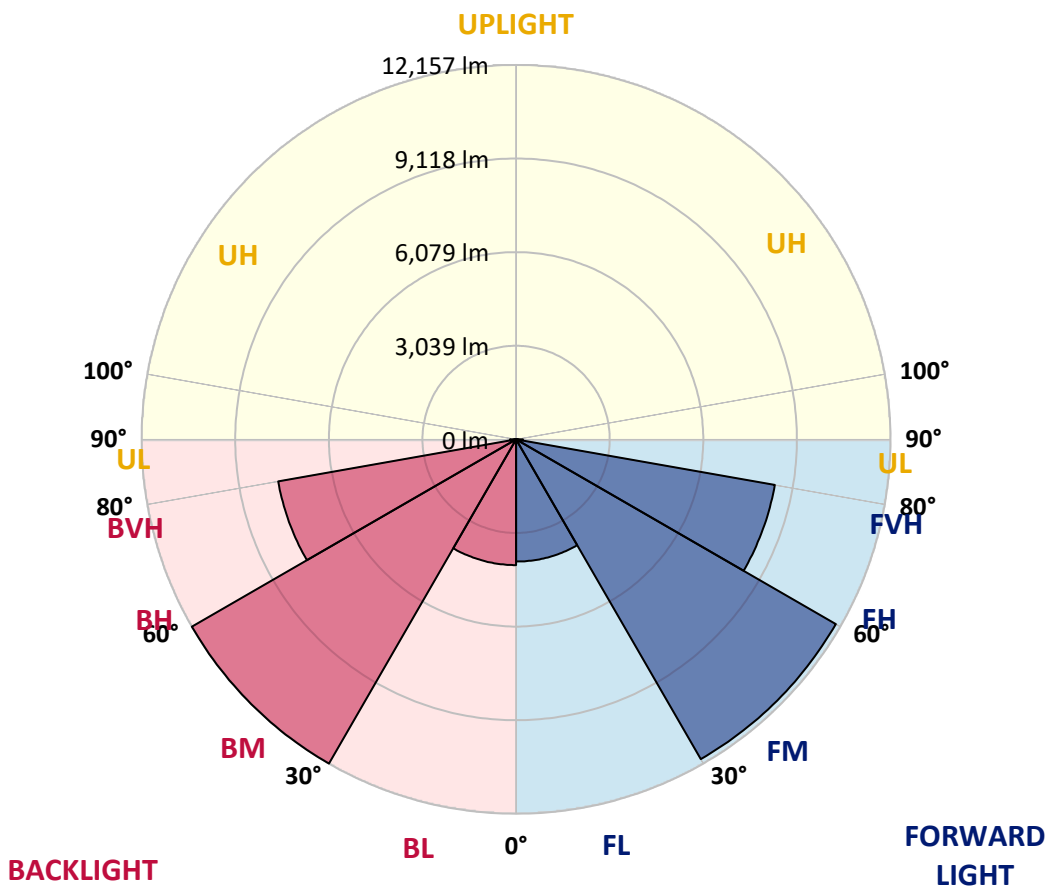
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3968.5	8.1			
FM (30°-60°)	11990.8	24.5			
FH (60°-80°)	8531.3	17.4			G4/12000
FVH (80°-90°)	223.2	0.5			G2/225
BL (0°-30°)	4083.2	8.3	B4/5000		
BM (30°-60°)	12157.5	24.8	B5		
BH (60°-80°)	7843.8	16.0	B5		G5
BVH (80°-90°)	199.8	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type I Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	89°
0°	8224.0	8224.0	8224.0	8224.0	8224.0	8224.0	8224.0	8224.0	8224.0	8224.0	8224.0
2.5°	8248.6	8241.5	8224.0	8276.7	8266.2	8269.7	8290.8	8276.7	8252.1	8209.9	8269.7
5°	8480.8	8477.3	8438.6	8470.3	8435.1	8410.5	8406.9	8371.8	8343.6	8297.9	8361.2
7.5°	8706.1	8702.5	8670.9	8727.2	8699.0	8670.9	8639.2	8568.8	8502.0	8435.1	8505.5
10°	8878.5	8875.0	8867.9	8948.9	8955.9	8966.5	8952.4	8832.7	8716.6	8635.7	8706.1
12.5°	8977.0	8987.6	9005.2	9153.0	9226.9	9297.3	9314.8	9216.3	9022.8	8906.6	8991.1
15°	8910.2	8931.3	9019.3	9286.7	9490.8	9649.2	9716.0	9635.1	9385.2	9191.7	9286.7
17.5°	8589.9	8607.5	8780.0	9188.2	9638.6	10004.6	10113.7	10064.4	9786.4	9550.6	9642.1
20°	8146.5	8185.2	8371.8	8941.8	9614.0	10250.9	10543.0	10525.4	10222.8	9860.3	9969.4
22.5°	7745.4	7791.1	7988.2	8618.1	9448.6	10314.3	10975.8	11021.6	10620.4	10170.0	10257.9
25°	7294.9	7337.2	7590.5	8234.5	9163.5	10265.0	11345.3	11552.9	11070.8	10525.4	10606.3
27.5°	6833.9	6865.6	7115.5	7801.7	8790.5	10173.5	11637.4	12137.1	11514.2	10771.7	10828.0
30°	6429.3	6471.5	6700.2	7368.8	8382.3	9990.5	11876.7	12760.0	12024.5	11049.7	11095.5
32.5°	6038.6	6073.8	6323.7	6943.0	7949.5	9709.0	12091.4	13491.9	12781.1	11567.0	11567.0
35°	5546.0	5609.3	5890.8	6534.8	7541.3	9336.0	12246.2	14343.5	13815.7	12330.7	12334.2
37.5°	5092.0	5127.2	5422.8	6073.8	7111.9	8913.7	12260.3	15226.8	15124.8	13301.9	13308.9
40°	4574.7	4620.5	4937.2	5581.2	6619.3	8470.3	12126.5	16050.3	16497.2	14301.3	14262.6
42.5°	4050.4	4117.3	4419.9	5049.8	6087.9	7928.4	11771.1	16835.0	18239.1	15459.1	15364.0
45°	3543.7	3585.9	3888.5	4483.2	5479.1	7280.9	11201.0	17588.1	20308.3	17218.6	17081.3
47.5°	2973.6	2991.2	3304.4	3874.4	4849.2	6559.5	10384.6	18260.2	22581.6	19548.2	19312.4
50°	2466.8	2491.5	2737.8	3226.9	4078.5	5704.3	9367.6	18654.3	25477.7	22725.8	22317.6
52.5°	1995.3	2019.9	2217.0	2607.6	3371.2	4729.6	8107.8	18562.8	28416.1	26670.7	26075.9
55°	1611.7	1629.3	1763.0	2069.2	2653.3	3761.8	6619.3	17742.9	31678.2	31822.5	30541.6
57.5°	1361.9	1368.9	1460.4	1646.9	2072.7	2899.7	5109.6	15807.4	35098.7	38396.0	36291.7
60°	1217.6	1221.1	1263.3	1379.5	1636.3	2213.5	3744.2	12724.8	38642.4	46620.0	43734.4
62.5°	1126.1	1126.1	1161.3	1228.1	1358.3	1703.2	2751.9	9138.9	41186.6	55568.9	52700.9
65°	1038.1	1038.1	1062.7	1119.0	1189.4	1390.0	2065.7	5894.4	42435.9	63050.3	62413.4
67.5°	925.5	929.0	946.6	1006.4	1069.8	1161.3	1566.0	3987.1	39842.4	65119.5	68342.9
70°	819.9	823.5	848.1	886.8	939.6	1002.9	1224.6	2748.4	29000.3	54235.2	61107.8
72.5°	703.8	717.9	735.5	777.7	809.4	855.1	999.4	1780.6	16873.7	34887.6	40394.8
75°	577.1	594.7	615.8	658.1	679.2	696.8	823.5	1270.4	8118.4	17679.6	20132.3
77.5°	446.9	464.5	489.1	527.9	541.9	563.0	629.9	918.5	3888.5	7836.9	8449.2
80°	299.1	306.2	327.3	373.0	397.6	411.7	464.5	626.4	1689.1	3146.0	3117.9
82.5°	183.0	186.5	193.5	221.7	232.3	246.3	302.6	383.6	805.9	3575.3	4099.7
85°	66.9	63.3	59.8	77.4	91.5	105.6	140.8	193.5	351.9	2456.3	2748.4
87.5°	0.0	0.0	0.0	3.5	7.0	7.0	14.1	28.2	84.5	918.5	629.9
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°	8224.0	8224.0	8224.0	8224.0	8224.0	8224.0	8224.0	8224.0	8224.0	8224.0	8224.0
2.5°	8252.1	8213.4	8262.7	8297.9	8375.3	8403.4	8410.5	8385.8	8385.8	8343.6	8350.6
5°	8347.1	8322.5	8403.4	8463.2	8575.9	8618.1	8646.2	8628.6	8639.2	8611.0	8618.1
7.5°	8491.4	8470.3	8611.0	8727.2	8843.3	8892.6	8917.2	8903.1	8906.6	8871.5	8882.0
10°	8692.0	8699.0	8867.9	9019.3	9174.1	9223.4	9233.9	9191.7	9156.5	9093.2	9096.7
12.5°	8966.5	9001.7	9241.0	9409.9	9568.2	9638.6	9561.2	9406.3	9262.1	9153.0	9138.9
15°	9265.6	9328.9	9673.8	9888.5	10060.9	10025.7	9797.0	9448.6	9163.5	9001.7	8970.0
17.5°	9624.5	9719.5	10152.4	10409.3	10557.1	10331.8	9853.3	9332.4	8934.8	8716.6	8674.4
20°	9962.3	10113.7	10659.1	10993.4	11011.0	10504.3	9828.6	9096.7	8597.0	8329.5	8273.2
22.5°	10272.0	10465.6	11190.5	11616.3	11387.6	10581.7	9677.3	8762.4	8188.8	7875.6	7826.3
25°	10609.8	10884.3	11809.8	12207.5	11764.1	10550.0	9360.6	8347.1	7696.1	7375.9	7340.7
27.5°	10842.1	11187.0	12432.7	12812.8	12073.8	10370.6	8952.4	7893.2	7245.7	6943.0	6893.8
30°	11109.6	11549.4	13118.9	13470.8	12263.8	10106.6	8516.0	7470.9	6826.9	6499.6	6464.4
32.5°	11595.2	12147.7	13970.5	14167.6	12323.6	9779.4	8097.3	7062.7	6390.5	6063.3	6014.0
35°	12376.4	13023.9	15167.0	14945.3	12277.9	9420.4	7699.6	6584.1	5943.6	5637.5	5588.2
37.5°	13361.7	14167.6	16500.7	15645.6	12151.2	9026.3	7228.1	6182.9	5542.5	5232.8	5204.6
40°	14280.2	15272.6	17996.3	16250.8	11894.3	8540.7	6774.1	5764.2	5109.6	4782.4	4719.0
42.5°	15430.9	16750.5	19727.6	16775.2	11472.0	7960.0	6263.9	5246.9	4567.7	4272.1	4194.7
45°	17179.9	18819.7	21740.5	17278.4	10842.1	7245.7	5623.4	4617.0	3973.0	3670.3	3610.5
47.5°	19361.7	21406.2	23922.3	17577.5	9884.9	6492.6	4898.5	3951.9	3307.9	2966.5	2938.4
50°	22426.7	25168.0	26262.5	17524.7	8815.1	5598.8	4082.1	3160.1	2621.7	2375.3	2336.6
52.5°	26160.4	29890.6	28792.6	16891.3	7678.5	4581.8	3181.2	2480.9	2079.7	1903.8	1872.1
55°	30844.2	35545.6	31456.5	15533.0	6242.7	3508.5	2498.5	1956.6	1682.1	1576.5	1562.4
57.5°	36643.6	42868.7	34021.9	13245.6	4694.4	2678.0	1924.9	1615.2	1485.0	1421.7	1418.2
60°	44297.4	50642.2	36249.4	10293.1	3360.7	2048.1	1590.6	1442.8	1340.7	1298.5	1295.0
62.5°	53397.6	57701.4	37635.9	7009.9	2526.7	1632.8	1400.6	1309.1	1249.3	1224.6	1221.1
65°	62751.2	62163.5	36974.4	4592.3	1917.9	1386.5	1256.3	1207.0	1154.2	1129.6	1129.6
67.5°	68276.1	61220.4	31896.4	3188.2	1520.2	1217.6	1133.1	1087.4	999.4	978.3	978.3
70°	60474.4	49607.6	20906.5	2333.1	1231.7	1066.3	985.3	922.0	886.8	865.7	862.2
72.5°	39997.2	32280.0	11116.6	1618.7	1027.6	907.9	834.0	809.4	767.1	746.0	742.5
75°	19907.1	16954.6	5697.3	1168.3	855.1	728.4	696.8	686.2	651.0	622.9	615.8
77.5°	8297.9	7548.3	2656.9	848.1	651.0	587.7	559.5	559.5	520.8	489.1	475.1
80°	3128.4	2787.1	1256.3	580.6	482.1	436.4	418.8	404.7	373.0	334.3	313.2
82.5°	4184.1	2734.3	615.8	362.5	316.7	281.5	256.9	246.3	228.7	211.1	197.1
85°	2709.6	1942.5	278.0	186.5	158.4	119.6	105.6	98.5	88.0	77.4	70.4
87.5°	552.5	651.0	84.5	35.2	21.1	10.6	10.6	3.5	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)