

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: P638747

Luminaire Tested: GWS-SA4F-740-U-SL2-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638747
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-SA4F-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: 33435.5 lumens
Efficiency: N/A
Efficacy: 148.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

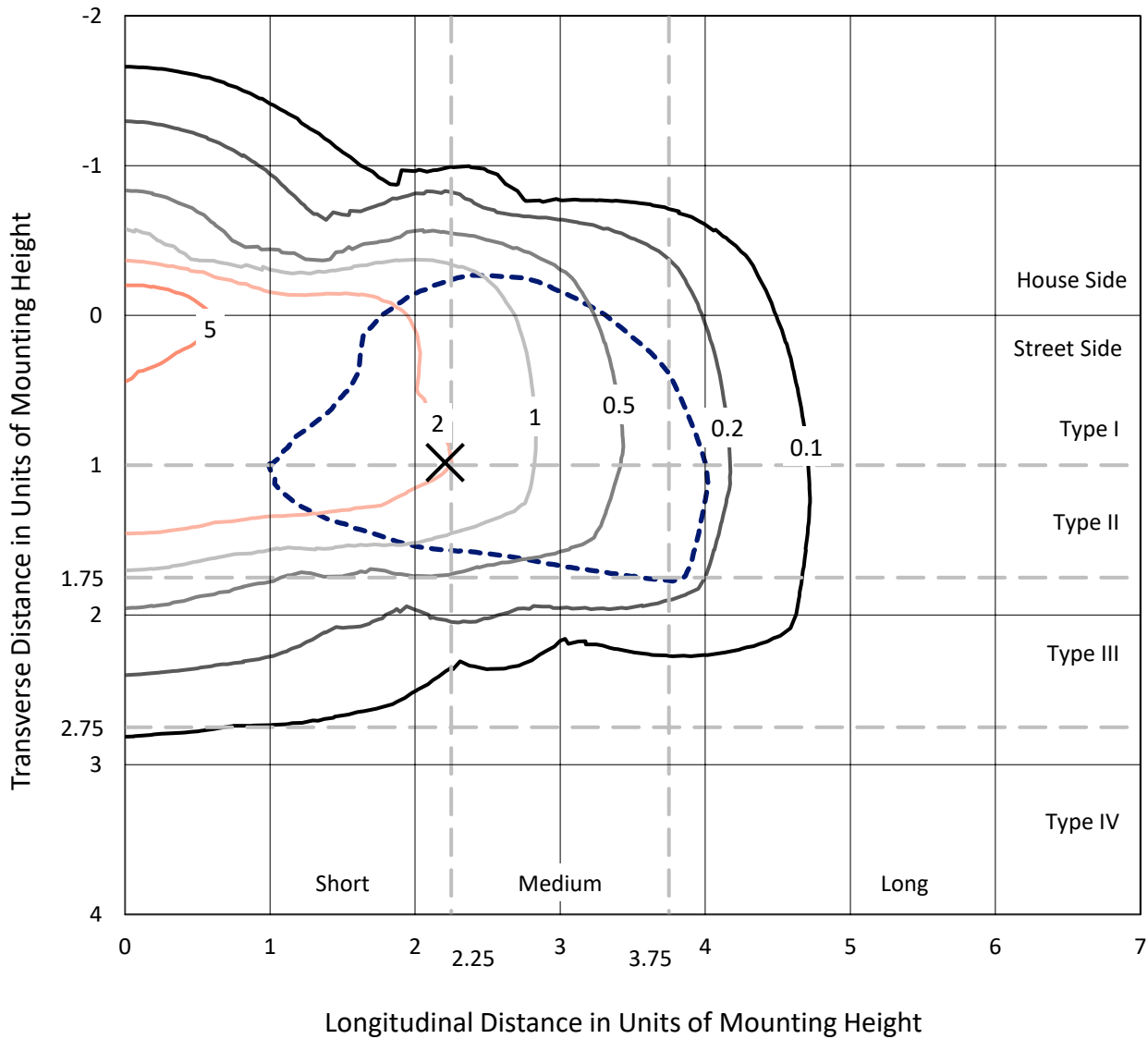
Input Watts (W): 225.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

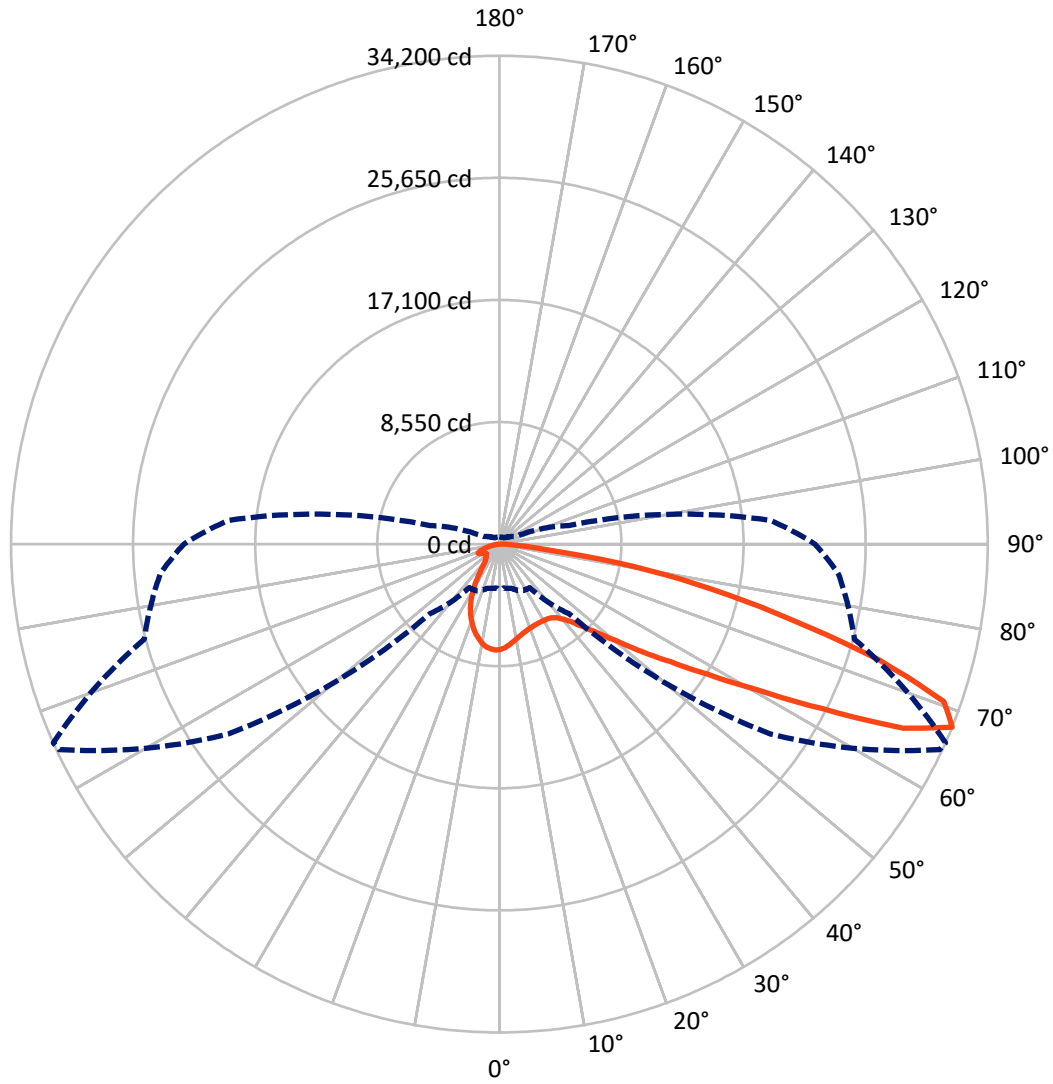
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.2 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	6784.8	0.0	6784.8
	% Fixture	20.3	0.0	20.3
Street Side	Lumens	26650.7	0.0	26650.7
	% Fixture	79.7	0.0	79.7
Total	Lumens	33435.5	0.0	33435.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	648.4	1.9
10°-20°	1593.6	4.8
20°-30°	2190.4	6.6
30°-40°	2994.6	9.0
40°-50°	4537.6	13.6
50°-60°	7053.9	21.1
60°-70°	8588.0	25.7
70°-80°	5231.4	15.6
80°-90°	597.6	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°	33435.5	100.0
0°-180°	33435.5	100.0

Coefficient of Utilization



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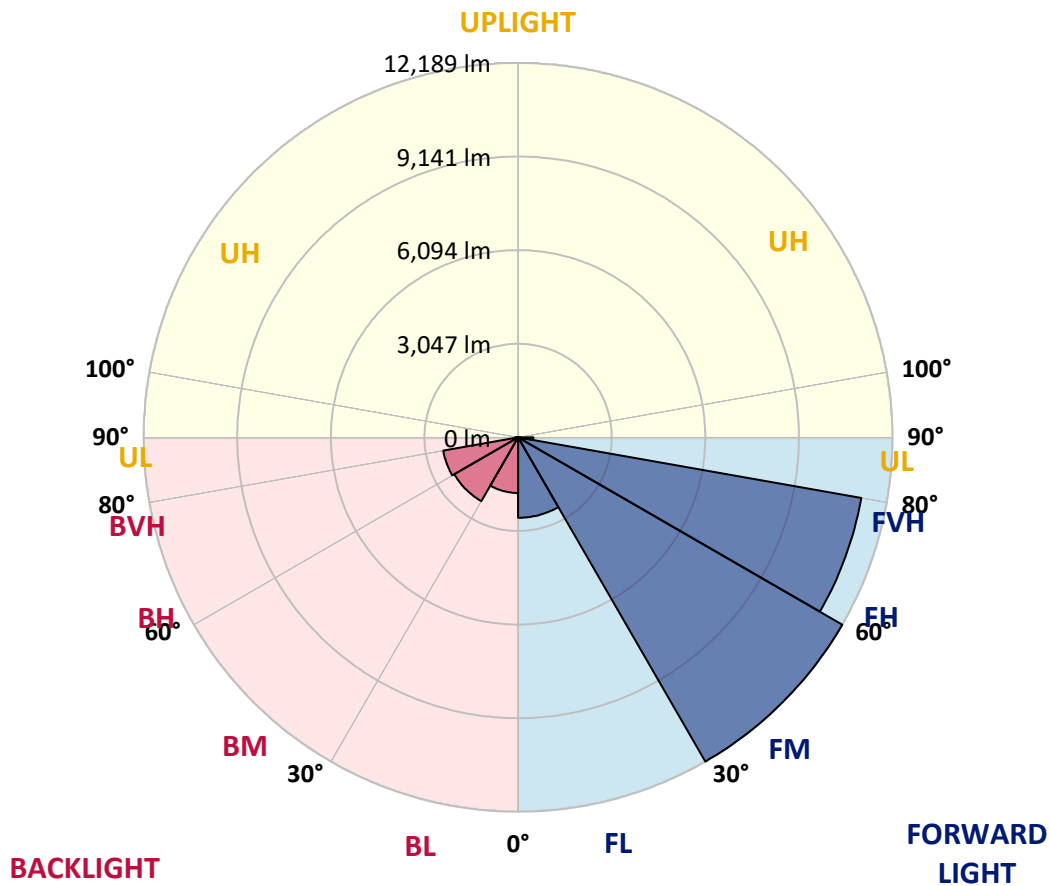
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2619.8	7.8			
FM (30°-60°)	12188.5	36.5			
FH (60°-80°)	11345.5	33.9			G4/12000
FVH (80°-90°)	496.8	1.5			G3/500
BL (0°-30°)	1812.5	5.4	B3/2500		
BM (30°-60°)	2397.7	7.2	B2/2500		
BH (60°-80°)	2473.9	7.4	B3/2500		G3/2500
BVH (80°-90°)	100.7	0.3			G2/225
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°	7388.3	7388.3	7388.3	7388.3	7388.3	7388.3	7388.3	7388.3	7388.3	7388.3	7388.3
2.5°	6920.0	6944.4	6929.7	7022.4	7027.3	7144.4	7210.2	7266.3	7271.2	7344.4	7393.2
5°	6446.8	6461.4	6461.4	6549.2	6607.8	6763.9	6915.1	7076.1	7088.3	7263.9	7398.1
7.5°	6063.8	6078.5	6068.7	6185.8	6261.4	6434.6	6627.3	6873.6	6898.0	7181.0	7415.1
10°	5763.8	5758.9	5783.3	5890.6	5988.2	6195.5	6410.2	6690.7	6727.3	7085.8	7434.6
12.5°	5558.9	5563.8	5578.4	5690.6	5795.5	6000.4	6222.4	6527.3	6566.3	6976.1	7424.9
15°	5461.3	5451.6	5463.8	5566.2	5666.2	5846.7	6076.0	6390.7	6429.7	6878.5	7427.3
17.5°	5439.4	5432.1	5429.6	5502.8	5578.4	5746.7	5966.3	6285.8	6327.3	6815.1	7442.0
20°	5507.7	5497.9	5471.1	5502.8	5534.5	5676.0	5888.2	6210.2	6256.5	6773.6	7471.2
22.5°	5695.5	5678.4	5637.0	5597.9	5556.5	5641.8	5839.4	6154.1	6200.4	6746.8	7500.5
25°	5980.9	5966.3	5922.3	5834.5	5683.3	5668.7	5829.7	6129.7	6176.0	6727.3	7512.7
27.5°	6373.6	6351.6	6307.7	6180.9	5934.5	5768.7	5866.2	6127.2	6171.1	6705.3	7500.5
30°	6839.5	6824.8	6800.5	6646.8	6317.5	5980.9	5949.2	6146.8	6180.9	6693.1	7476.1
32.5°	7312.7	7298.0	7317.6	7244.4	6839.5	6332.1	6129.7	6200.4	6224.8	6690.7	7454.2
35°	7729.8	7746.9	7888.3	7900.5	7502.9	6807.8	6415.1	6324.8	6329.7	6739.5	7463.9
37.5°	8166.4	8232.3	8417.6	8576.2	8244.5	7437.1	6839.5	6559.0	6554.1	6863.9	7524.9
40°	8744.5	8773.8	9010.4	9307.9	9100.6	8300.6	7442.0	6941.9	6907.8	7117.5	7688.3
42.5°	9307.9	9378.7	9756.7	10098.2	10029.9	9273.8	8200.5	7515.1	7454.2	7566.4	8024.9
45°	10025.1	10093.4	10517.8	10956.8	11081.2	10373.9	9171.3	8329.8	8268.8	8242.0	8642.0
47.5°	10742.2	10812.9	11193.4	11827.6	12264.2	11749.6	10434.8	9405.5	9305.5	9200.6	9573.8
50°	11225.1	11308.1	11671.5	12432.5	13457.0	13466.7	11932.5	10815.4	10688.5	10522.7	10886.1
52.5°	11208.1	11261.7	11608.1	12486.2	14315.6	15440.1	13937.5	12610.6	12508.1	12147.1	12464.2
55°	10327.5	10408.0	10756.8	11854.4	14408.3	17310.9	16884.0	14727.8	14544.9	13898.5	14247.3
57.5°	8559.1	8627.4	8978.6	10332.4	13586.3	18269.5	20625.8	17425.5	17174.3	15805.9	16208.4
60°	6461.4	6378.5	6544.3	7729.8	11620.3	18293.9	23928.4	21084.3	20664.8	17845.1	18181.7
62.5°	4849.1	4766.2	4802.8	5136.9	7878.6	16815.8	25811.5	26089.5	25396.8	20147.7	20081.8
65°	3832.0	3785.6	3890.5	4119.8	4593.0	12805.7	25826.1	31502.1	31065.5	22816.2	22030.7
67.5°	3122.2	3092.9	3200.2	3624.6	3724.6	6880.9	23157.6	34029.1	34199.8	25738.3	23838.2
70°	2514.8	2470.9	2639.2	3197.8	3463.6	4163.7	16588.9	32741.2	33016.8	27479.9	23328.4
72.5°	1736.7	1739.1	1824.5	2590.4	3344.1	3595.4	9383.6	27262.8	27860.4	25901.7	20508.7
75°	1170.8	1180.6	1205.0	1709.9	3080.7	3488.0	5000.3	20640.4	21062.4	21408.7	16952.3
77.5°	707.4	712.2	768.3	1034.2	2124.5	3256.3	3388.0	14962.0	15293.7	14113.1	10508.0
80°	409.8	426.9	478.1	692.7	1434.2	2446.5	2622.1	9173.8	9549.4	6273.6	3339.2
82.5°	180.5	192.7	261.0	402.5	836.6	2080.6	2046.5	3624.6	3571.0	1748.9	1158.6
85°	31.7	39.0	56.1	126.8	307.3	1097.6	1587.9	1600.1	1505.0	663.5	480.5
87.5°	0.0	0.0	0.0	0.0	0.0	7.3	239.0	429.3	426.9	187.8	165.9
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°	7388.3	7388.3	7388.3	7388.3	7388.3	7388.3	7388.3	7388.3	7388.3	7388.3	7388.3
2.5°	7424.9	7359.0	7417.6	7424.9	7412.7	7402.9	7329.8	7266.3	7259.0	7190.7	7190.7
5°	7451.7	7390.7	7420.0	7363.9	7276.1	7185.8	7029.7	6922.4	6873.6	6785.8	6785.8
7.5°	7488.3	7424.9	7390.7	7251.7	7046.8	6849.2	6598.0	6388.2	6302.9	6178.5	6173.6
10°	7522.5	7442.0	7324.9	7054.1	6727.3	6412.6	6046.7	5749.2	5546.7	5397.9	5397.9
12.5°	7520.0	7415.1	7183.4	6783.4	6332.1	5876.0	5388.2	4939.4	4671.0	4439.3	4424.7
15°	7515.1	7371.2	7002.9	6468.7	5871.1	5239.4	4575.9	3990.5	3592.9	3366.1	3346.6
17.5°	7510.3	7315.1	6800.5	6110.2	5310.1	4449.1	3573.4	2939.2	2607.5	2468.5	2473.3
20°	7510.3	7251.7	6583.4	5697.9	4663.7	3502.7	2622.1	2161.1	2078.2	2085.5	2092.8
22.5°	7488.3	7173.6	6341.9	5249.1	3944.2	2575.8	1934.3	1778.2	1822.1	1890.4	1900.1
25°	7437.1	7044.4	6061.4	4751.5	3088.0	1875.7	1578.2	1548.9	1629.4	1714.7	1739.1
27.5°	7356.6	6895.6	5746.7	4168.6	2273.3	1507.4	1387.9	1385.5	1448.9	1512.3	1534.2
30°	7271.2	6729.7	5415.0	3519.7	1646.5	1312.3	1265.9	1265.9	1297.6	1336.7	1331.8
32.5°	7171.2	6561.4	5058.9	2844.1	1341.6	1202.5	1187.9	1180.6	1185.4	1200.1	1200.1
35°	7085.8	6412.6	4693.0	2129.4	1202.5	1141.5	1126.9	1109.8	1102.5	1092.8	1097.6
37.5°	7054.1	6295.5	4314.9	1605.0	1134.2	1097.6	1073.2	1048.9	1031.8	1026.9	1024.5
40°	7105.4	6246.8	3936.8	1322.0	1085.4	1051.3	1024.5	992.7	978.1	978.1	978.1
42.5°	7305.4	6283.3	3551.5	1195.2	1051.3	1012.3	973.2	944.0	939.1	944.0	946.4
45°	7671.2	6424.8	3151.4	1131.8	1022.0	973.2	926.9	904.9	904.9	909.8	909.8
47.5°	8324.9	6795.6	2756.3	1092.8	992.7	941.5	892.7	870.8	868.4	873.2	873.2
50°	9456.7	7463.9	2400.2	1065.9	970.8	917.1	868.4	839.1	831.8	829.3	829.3
52.5°	10883.7	8622.5	2173.3	1046.4	944.0	890.3	841.5	802.5	787.9	780.5	780.5
55°	12608.2	10166.5	2173.3	1031.8	909.8	858.6	802.5	763.5	741.5	731.8	731.8
57.5°	14561.9	11964.2	2549.0	1019.6	883.0	822.0	761.0	722.0	697.6	683.0	683.0
60°	16549.9	13864.3	3478.3	1002.5	858.6	775.7	714.7	678.1	646.4	629.3	626.9
62.5°	18611.0	15957.2	4702.8	1012.3	841.5	731.8	665.9	624.4	597.6	580.5	578.1
65°	20498.9	17950.0	5773.6	1087.9	844.0	692.7	609.8	573.2	551.3	529.3	526.9
67.5°	22101.5	19050.0	5022.3	1241.5	895.2	646.4	553.7	517.1	497.6	483.0	480.5
70°	20979.4	17371.9	2849.0	1336.7	965.9	597.6	490.3	465.9	446.4	436.6	434.2
72.5°	17940.2	14708.3	1905.0	1180.6	880.5	534.2	431.7	412.2	397.6	385.4	383.0
75°	14532.7	11664.2	1456.2	968.4	685.4	434.2	370.8	356.1	341.5	329.3	326.9
77.5°	8598.1	6739.5	1073.2	765.9	483.0	339.0	307.3	295.1	280.5	270.7	268.3
80°	2744.1	2341.6	680.5	526.9	319.5	261.0	236.6	226.8	212.2	200.0	197.6
82.5°	1046.4	904.9	361.0	268.3	212.2	178.1	158.5	148.8	139.0	126.8	124.4
85°	463.4	434.2	200.0	143.9	114.6	87.8	78.1	73.2	61.0	51.2	48.8
87.5°	163.4	163.4	85.4	41.5	24.4	12.2	7.3	2.4	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)