

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: P635715

Luminaire Tested: GWS-SA3E-735-U-AFL-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P635715
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-45)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA3E-735-U-AFL-W
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: (48) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22087.4 lumens
Efficiency: N/A
Efficacy: 138.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

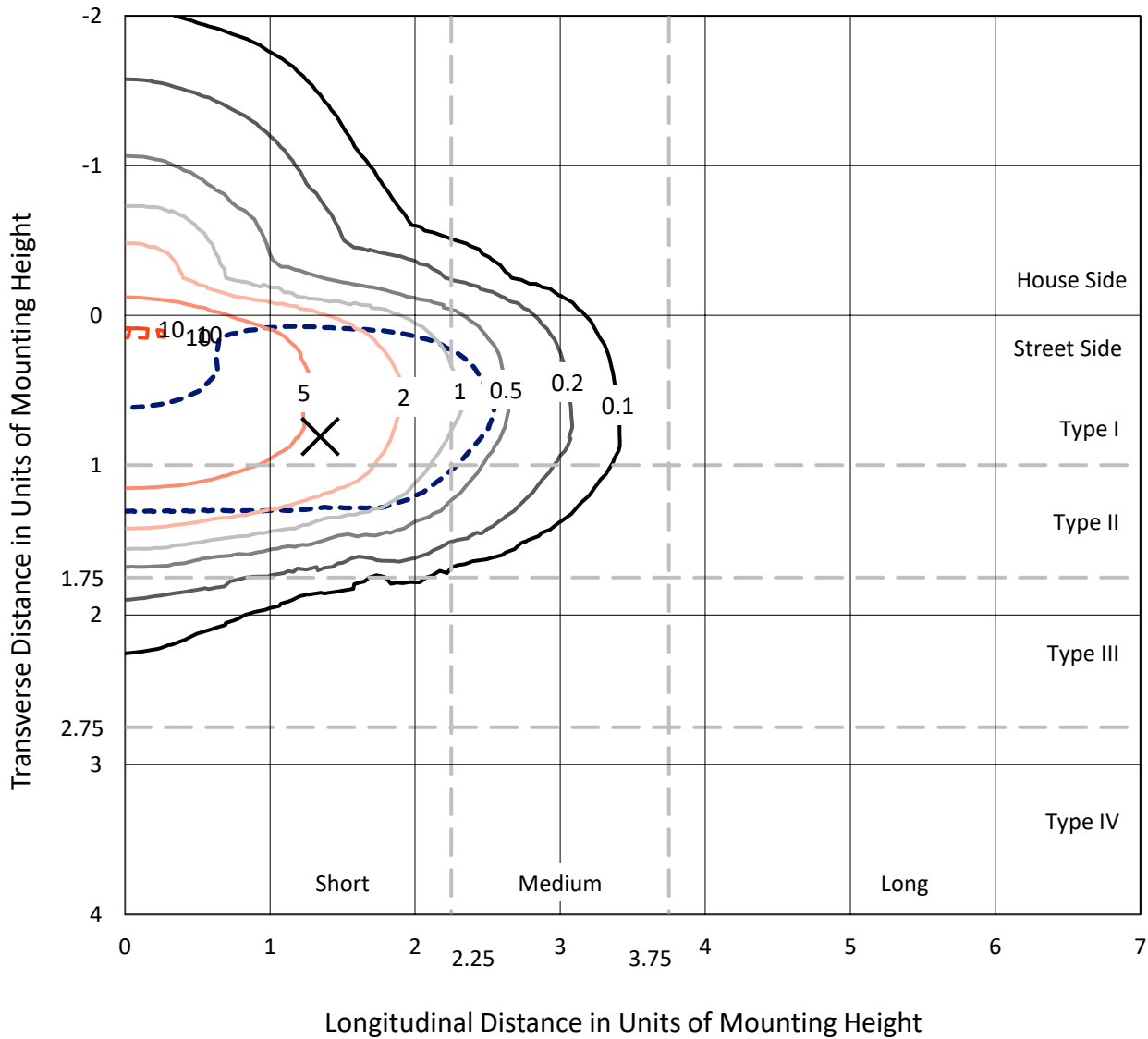
Input Watts (W): 159.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P635715
 CATALOG NUMBER: GWS-SA3E-735-U-AFL-W

Iso-Footcandle Lines of Horizontal Illumination

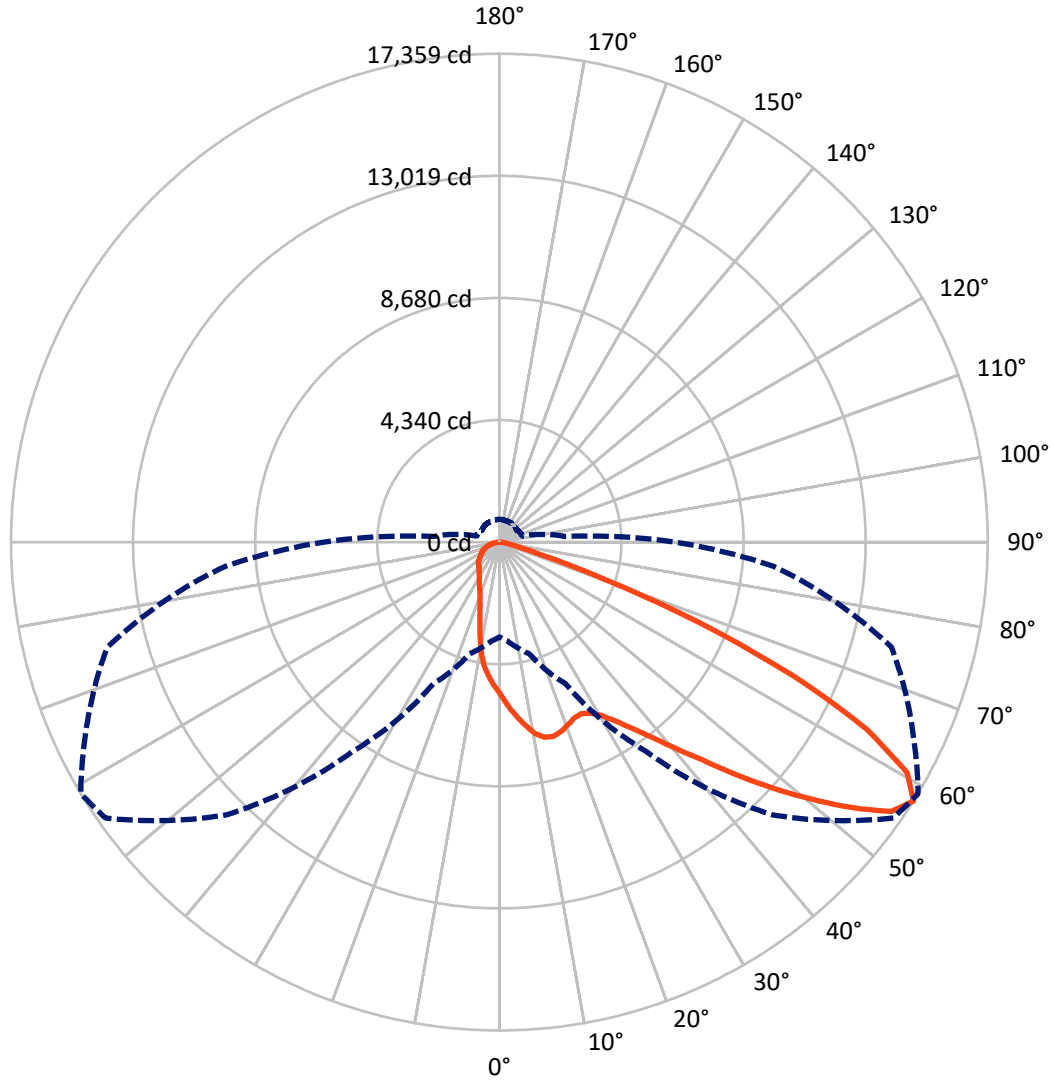
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.6 fc
 Type II - Short - N/A

REPORT NUMBER: P635715
CATALOG NUMBER: GWS-SA3E-735-U-AFL-W

Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

REPORT NUMBER: P635715

CATALOG NUMBER: GWS-SA3E-735-U-AFL-W

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3427.8	0.0	3427.8
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	18659.6	0.0	18659.6
	% Fixture	84.5	0.0	84.5
Total	Lumens	22087.4	0.0	22087.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	503.4	2.3
10°-20°	1275.7	5.8
20°-30°	2068.0	9.4
30°-40°	3326.6	15.1
40°-50°	5165.9	23.4
50°-60°	5564.3	25.2
60°-70°	3229.3	14.6
70°-80°	843.0	3.8
80°-90°	111.1	0.5
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°	22087.4	100.0
0°-180°	22087.4	100.0

Coefficient of Utilization



REPORT NUMBER: P635715

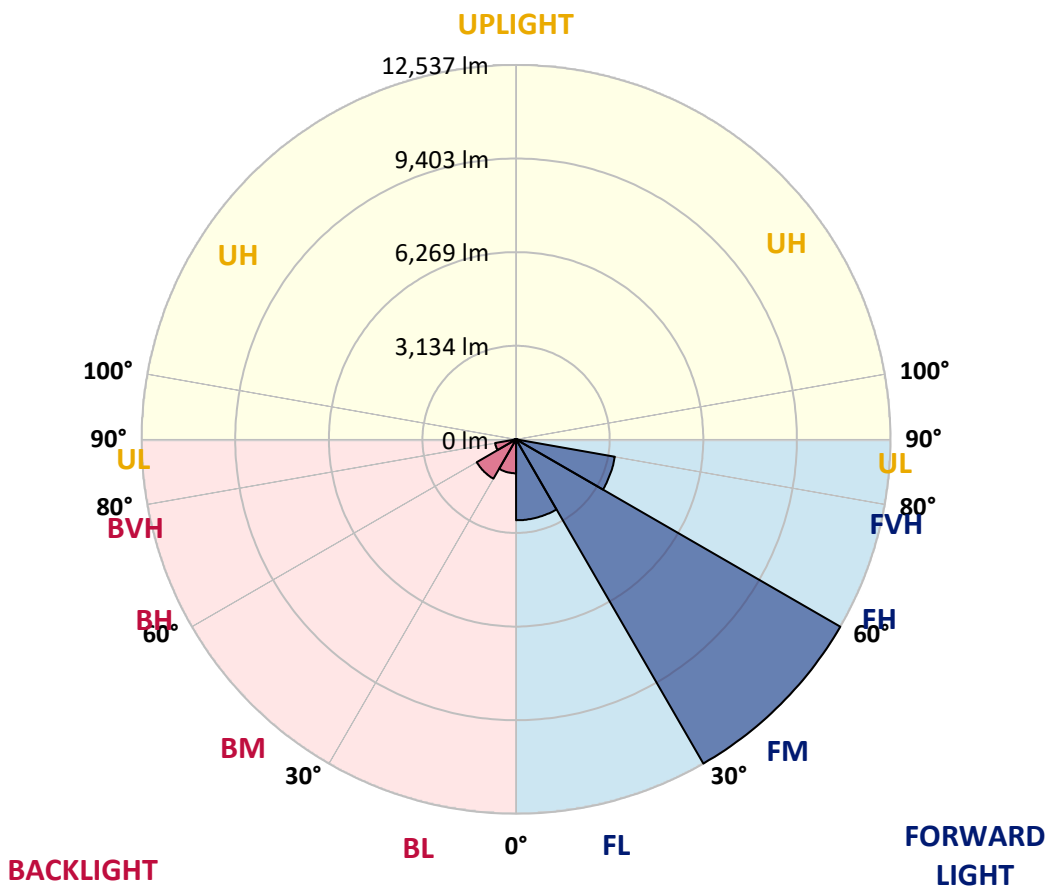
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2709.9	12.3			
FM (30°-60°)	12537.1	56.8			
FH (60°-80°)	3359.4	15.2			G2/5000
FVH (80°-90°)	53.2	0.2			G1/100
BL (0°-30°)	1137.2	5.1	B3/2500		
BM (30°-60°)	1519.8	6.9	B2/2500		
BH (60°-80°)	713.0	3.2	B2/1000		G2/1000
BVH (80°-90°)	57.9	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-G2

Type II Short





REPORT NUMBER: P635715

CATALOG NUMBER: GWS-SA3E-735-U-AFL-W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	5422.0	5422.0	5422.0	5422.0	5422.0	5422.0	5422.0	5422.0	5422.0	5422.0	5422.0
2.5°	6149.7	6098.4	6134.2	6070.4	6044.0	5974.0	5883.8	5823.2	5729.9	5608.6	5502.9
5°	6760.8	6725.0	6732.8	6664.4	6603.8	6487.1	6302.1	6199.5	6040.9	5796.8	5569.7
7.5°	6742.1	6784.1	6807.5	6866.5	6883.6	6872.8	6706.4	6563.3	6389.2	6022.2	5680.1
10°	6044.0	6123.3	6194.8	6397.0	6642.6	6953.6	6992.5	6907.0	6731.3	6309.9	5812.3
12.5°	5283.6	5344.3	5408.0	5650.6	6026.9	6648.8	7070.2	7123.1	7053.1	6594.4	5961.6
15°	4910.4	4938.4	4999.1	5159.2	5459.3	6149.7	6935.0	7166.6	7292.6	6896.1	6129.5
17.5°	4894.9	4907.3	4936.9	5022.4	5230.8	5764.1	6690.8	7079.6	7480.7	7214.8	6325.4
20°	5216.8	5184.1	5165.5	5163.9	5266.5	5635.0	6454.5	6939.6	7569.4	7541.4	6535.3
22.5°	5663.0	5673.9	5633.5	5534.0	5521.5	5726.8	6336.3	6798.1	7595.8	7830.6	6729.7
25°	6295.9	6350.3	6230.6	6040.9	5947.6	5992.7	6409.4	6754.6	7592.7	8071.6	6851.0
27.5°	7034.5	7076.5	6955.2	6706.4	6513.6	6404.7	6627.1	6883.6	7619.1	8280.0	6924.1
30°	7875.7	7889.7	7723.3	7462.1	7180.6	6947.4	6989.4	7149.5	7754.4	8553.6	7009.6
32.5°	8903.5	8962.6	8710.7	8297.1	7903.7	7605.1	7476.1	7578.7	8046.7	8877.1	7141.8
35°	10208.1	10228.3	9908.0	9315.5	8758.9	8345.3	8074.7	8129.1	8491.4	9329.5	7340.8
37.5°	11438.0	11458.2	11117.7	10567.3	9771.1	9205.1	8813.3	8788.4	9060.5	9968.6	7665.8
40°	12218.6	12276.1	12123.7	11778.5	11018.2	10254.7	9722.9	9637.4	9806.9	10750.7	8118.3
42.5°	12638.4	12663.3	12660.2	12705.3	12252.8	11494.0	10749.2	10578.1	10691.6	11595.1	8575.4
45°	12641.5	12703.7	12870.1	13303.9	13324.1	12851.4	12046.0	11778.5	11674.4	12445.6	9052.8
47.5°	12075.5	12142.4	12599.5	13453.2	14082.9	14190.2	13599.4	13062.9	12624.4	13178.0	9444.6
50°	10362.0	10529.9	11400.7	12910.5	14232.2	15263.1	15081.2	14353.5	13468.7	13744.0	9690.3
52.5°	8873.9	8867.7	9404.2	11377.4	13608.7	15735.8	16514.8	15681.4	14303.7	14103.1	9752.5
55°	6498.0	6533.8	7082.7	8701.3	11944.9	15278.7	17303.2	16903.6	15261.6	14294.4	9727.6
57.5°	3369.5	3546.8	4109.7	5552.6	9076.1	13705.1	17093.3	17359.2	16234.9	14429.7	9760.2
60°	1702.6	1668.4	1870.6	2651.1	5258.7	10704.1	15799.6	16647.0	16410.7	14535.4	9780.5
62.5°	1136.6	1127.3	1071.3	1228.4	2148.9	6339.4	13468.7	14656.7	15190.0	14286.6	9522.3
65°	984.3	965.6	863.0	856.8	1043.4	2629.4	9872.2	11522.0	12554.4	13181.1	8905.0
67.5°	886.3	858.3	754.1	702.8	749.5	1155.3	5563.5	7728.0	9270.4	11147.2	7552.3
70°	791.5	777.5	673.3	598.6	594.0	704.4	2049.4	3988.4	5672.4	7605.1	5521.5
72.5°	709.0	684.2	595.5	524.0	488.2	499.1	889.4	1536.3	2935.7	4744.1	3302.7
75°	614.2	595.5	517.8	446.3	402.7	365.4	542.7	710.6	1338.8	2254.6	1559.6
77.5°	474.3	461.8	408.9	354.5	329.6	272.1	329.6	447.8	618.9	950.1	811.7
80°	275.2	283.0	304.8	276.8	242.6	194.4	214.6	258.1	371.6	514.7	460.3
82.5°	138.4	147.7	197.5	160.2	144.6	113.5	127.5	152.4	194.4	284.6	180.4
85°	10.9	10.9	35.8	40.4	49.8	40.4	51.3	62.2	88.6	113.5	60.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	4.7	7.8	14.0	26.4	17.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P635715
 CATALOG NUMBER: GWS-SA3E-735-U-AFL-W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5422.0	5422.0	5422.0	5422.0	5422.0	5422.0	5422.0	5422.0	5422.0	5422.0	5422.0
2.5°	5431.3	5352.0	5257.2	5179.4	5059.7	4996.0	4915.1	4815.6	4775.2	4756.5	4745.6
5°	5442.2	5302.3	5100.1	4913.6	4706.8	4543.5	4361.6	4171.9	4063.0	4036.6	4017.9
7.5°	5482.7	5286.7	4964.9	4657.0	4272.9	3916.8	3570.1	3226.5	3050.8	2983.9	2977.7
10°	5538.6	5280.5	4828.0	4316.5	3668.1	3105.2	2699.3	2430.3	2316.8	2279.5	2267.1
12.5°	5608.6	5275.9	4647.7	3843.8	2969.9	2438.1	2206.4	2162.9	2178.4	2175.3	2175.3
15°	5697.2	5282.1	4430.0	3308.9	2402.4	2116.2	2120.9	2172.2	2220.4	2228.2	2228.2
17.5°	5793.6	5275.9	4114.3	2772.4	2061.8	2040.1	2111.6	2183.1	2226.6	2232.9	2232.9
20°	5897.8	5246.3	3716.3	2267.1	1912.6	1991.9	2069.6	2125.6	2152.0	2158.2	2158.2
22.5°	5960.0	5162.3	3284.0	1918.8	1817.7	1915.7	1967.0	2024.5	2027.6	1977.9	1976.3
25°	5950.7	5005.3	2791.1	1694.9	1716.6	1802.2	1867.5	1827.0	1777.3	1749.3	1744.6
27.5°	5891.6	4768.9	2288.8	1525.4	1596.9	1693.3	1673.1	1638.9	1626.4	1595.4	1592.2
30°	5817.0	4478.2	1837.9	1393.2	1472.5	1561.1	1530.0	1526.9	1514.5	1480.3	1480.3
32.5°	5745.4	4178.1	1497.4	1295.3	1393.2	1399.4	1443.0	1446.1	1439.9	1380.8	1374.6
35°	5725.2	3878.0	1267.3	1217.5	1315.5	1312.4	1374.6	1373.0	1265.7	1183.3	1181.7
37.5°	5785.9	3573.2	1130.4	1153.8	1208.2	1248.6	1298.4	1208.2	1172.4	1122.7	1119.5
40°	5914.9	3291.8	1060.5	1116.4	1139.8	1198.8	1121.1	1127.3	1118.0	1080.7	1076.0
42.5°	6086.0	3052.3	1021.6	1104.0	1100.9	1116.4	1030.9	1055.8	1069.8	1041.8	1037.1
45°	6250.8	2844.0	1001.4	1057.3	1072.9	982.7	965.6	988.9	1010.7	999.8	995.2
47.5°	6372.1	2663.6	990.5	993.6	1037.1	937.6	909.6	920.5	946.9	951.6	950.1
50°	6409.4	2509.6	978.0	940.7	931.4	892.5	870.8	867.6	898.7	920.5	923.6
52.5°	6337.9	2372.8	945.4	894.1	849.0	855.2	847.4	831.9	863.0	892.5	895.6
55°	6232.1	2295.1	894.1	849.0	796.1	821.0	824.1	810.1	830.3	850.5	850.5
57.5°	6239.9	2340.2	844.3	807.0	749.5	782.1	799.2	793.0	793.0	808.6	810.1
60°	6291.2	2405.5	811.7	754.1	702.8	737.0	775.9	769.7	755.7	775.9	775.9
62.5°	6143.5	2318.4	789.9	702.8	653.1	693.5	740.1	737.0	721.5	754.1	757.2
65°	5708.1	2085.2	765.0	639.1	603.3	650.0	690.4	701.3	687.3	730.8	738.6
67.5°	4784.5	1754.0	716.8	578.4	553.6	597.1	636.0	651.5	640.6	691.9	698.2
70°	3567.0	1419.6	640.6	511.6	492.9	531.8	567.5	573.8	575.3	636.0	642.2
72.5°	2274.9	1104.0	539.6	436.9	422.9	452.5	478.9	503.8	514.7	572.2	570.7
75°	1268.8	821.0	433.8	370.1	345.2	368.5	399.6	429.2	460.3	544.2	553.6
77.5°	730.8	576.9	343.6	297.0	267.4	292.3	318.8	360.7	454.0	527.1	517.8
80°	412.1	374.7	259.7	217.7	199.0	217.7	237.9	317.2	357.6	388.7	393.4
82.5°	192.8	209.9	177.3	133.7	133.7	146.2	164.8	245.7	270.6	220.8	192.8
85°	70.0	94.9	87.1	68.4	60.6	59.1	102.6	139.9	87.1	77.7	66.9
87.5°	18.7	26.4	24.9	17.1	9.3	7.8	0.0	0.0	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)