

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: P637695

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

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637695
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-SA4D-735-U-AFL-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND
AUTOMOTIVE FRONTLINE OPTICS
Light Source: (64) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24595.7 lumens
Efficiency: N/A
Efficacy: 151.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

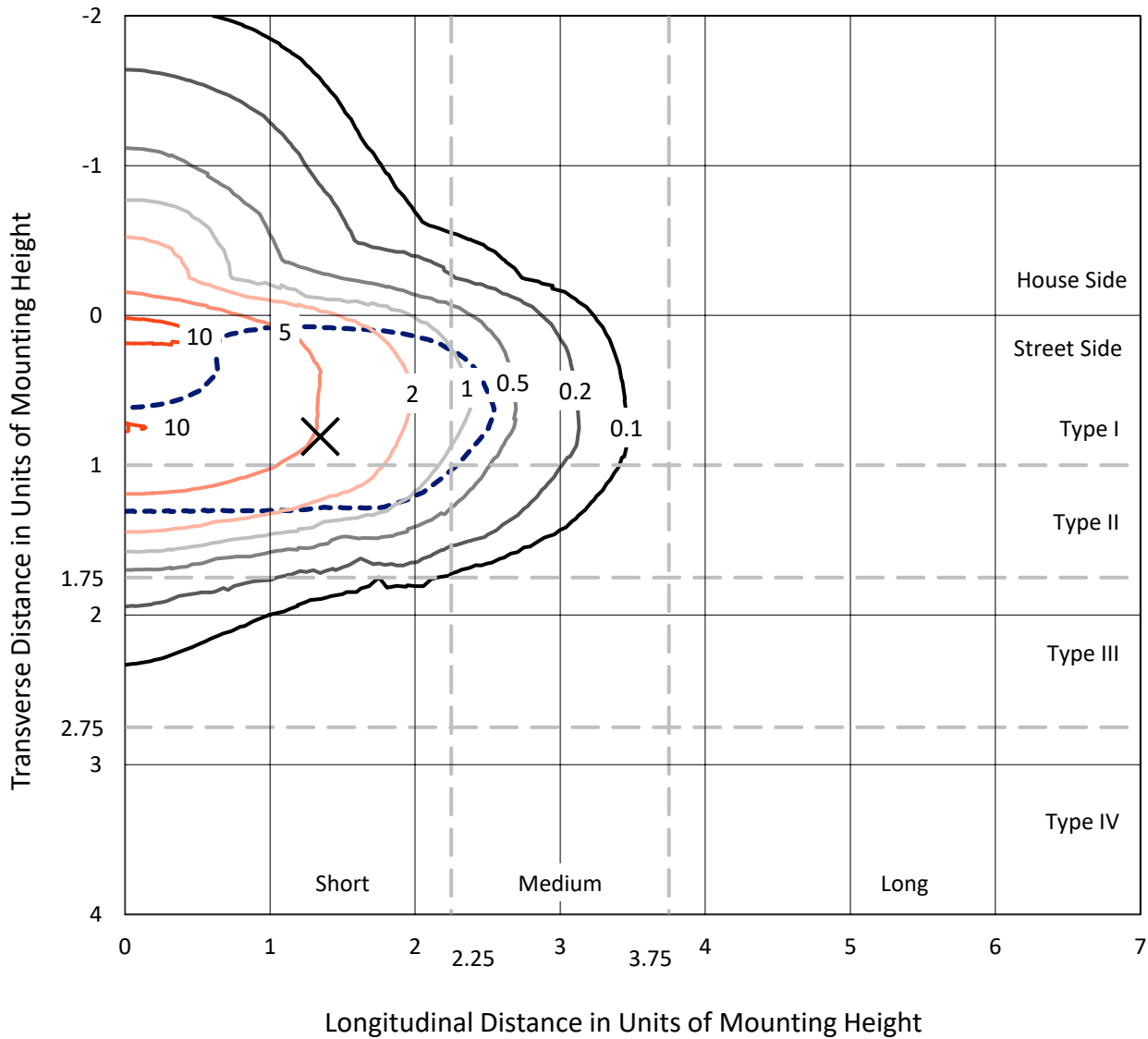
Input Watts (W): 162.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

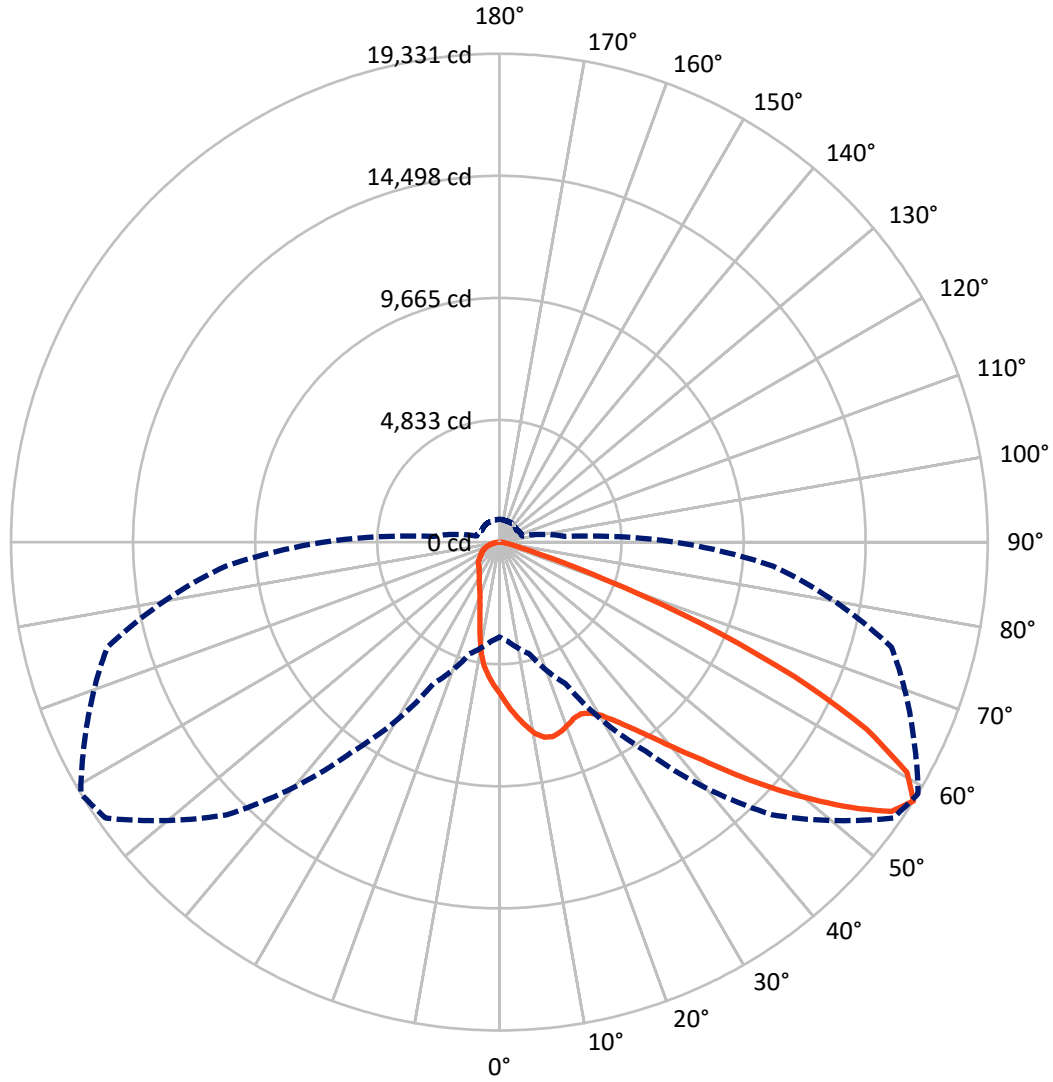
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3817.1	0.0	3817.1
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	20778.6	0.0	20778.6
	% Fixture	84.5	0.0	84.5
Total	Lumens	24595.7	0.0	24595.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	560.6	2.3
10°-20°	1420.6	5.8
20°-30°	2302.8	9.4
30°-40°	3704.4	15.1
40°-50°	5752.5	23.4
50°-60°	6196.2	25.2
60°-70°	3596.1	14.6
70°-80°	938.8	3.8
80°-90°	123.7	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°	24595.7	100.0
0°-180°	24595.7	100.0

Coefficient of Utilization



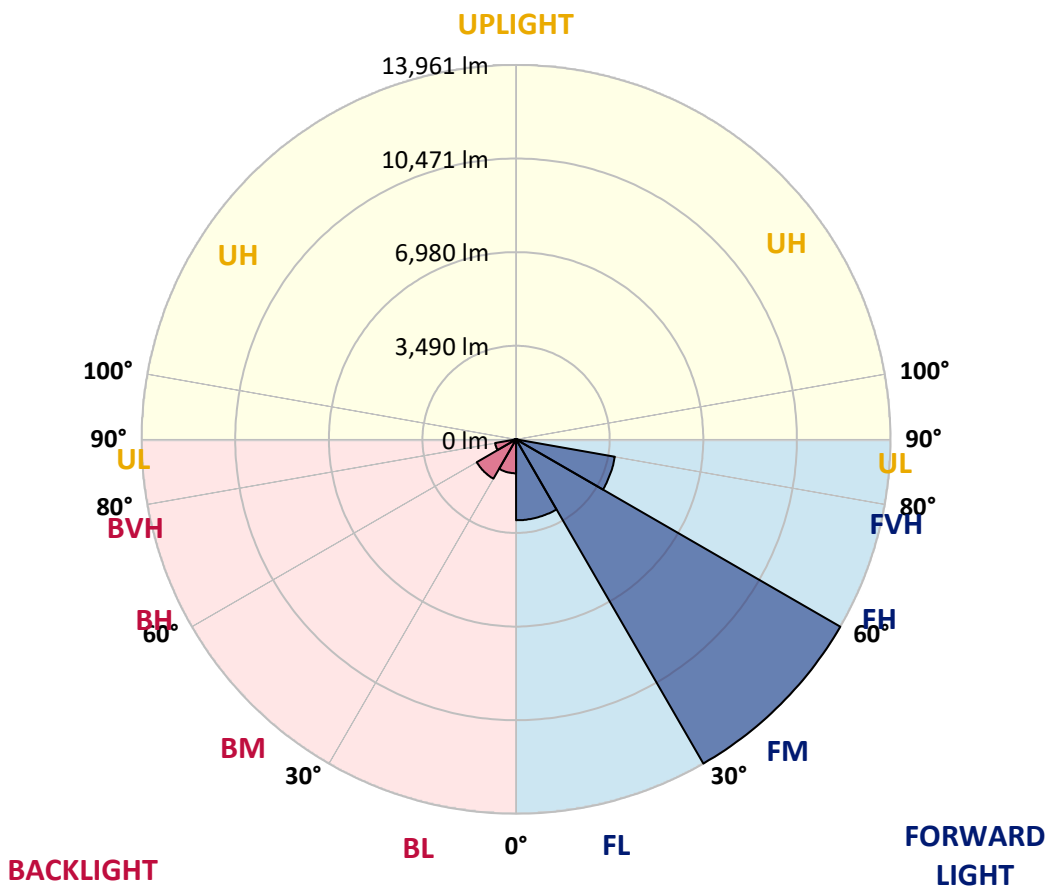
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3017.7	12.3			
FM (30°-60°)	13960.8	56.8			
FH (60°-80°)	3740.9	15.2			G2/5000
FVH (80°-90°)	59.2	0.2			G1/100
BL (0°-30°)	1266.4	5.1	B3/2500		
BM (30°-60°)	1692.4	6.9	B2/2500		
BH (60°-80°)	793.9	3.2	B2/1000		G2/1000
BVH (80°-90°)	64.5	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	6037.8	6037.8	6037.8	6037.8	6037.8	6037.8	6037.8	6037.8	6037.8	6037.8	6037.8
2.5°	6848.1	6791.0	6830.8	6759.8	6730.4	6652.4	6552.0	6484.5	6380.6	6245.5	6127.8
5°	7528.6	7488.8	7497.4	7421.2	7353.7	7223.8	7017.8	6903.5	6726.9	6455.0	6202.2
7.5°	7507.8	7554.5	7580.5	7646.3	7665.4	7653.2	7468.0	7308.7	7114.7	6706.1	6325.2
10°	6730.4	6818.7	6898.3	7123.4	7397.0	7743.3	7786.6	7691.3	7495.7	7026.4	6472.4
12.5°	5883.6	5951.2	6022.2	6292.3	6711.3	7403.9	7873.1	7932.0	7854.1	7343.3	6638.6
15°	5468.1	5499.3	5566.8	5745.1	6079.3	6848.1	7722.5	7980.5	8120.8	7679.2	6825.6
17.5°	5450.8	5464.6	5497.5	5592.8	5824.8	6418.7	7450.7	7883.5	8330.3	8034.2	7043.8
20°	5809.2	5772.8	5752.1	5750.3	5864.6	6275.0	7187.5	7727.7	8429.0	8397.8	7277.5
22.5°	6306.1	6318.3	6273.2	6162.4	6148.6	6377.1	7055.9	7570.1	8458.4	8719.9	7493.9
25°	7010.9	7071.5	6938.1	6726.9	6623.0	6673.2	7137.3	7521.7	8454.9	8988.2	7629.0
27.5°	7833.3	7880.1	7745.0	7468.0	7253.3	7132.1	7379.7	7665.4	8484.4	9220.3	7710.4
30°	8770.1	8785.6	8600.4	8309.5	7996.1	7736.4	7783.1	7961.5	8635.0	9525.0	7805.6
32.5°	9914.6	9980.4	9699.9	9239.3	8801.2	8468.8	8325.1	8439.3	8960.5	9885.2	7952.8
35°	11367.3	11389.8	11033.1	10373.4	9753.6	9293.0	8991.7	9052.3	9455.7	10389.0	8174.4
37.5°	12736.9	12759.4	12380.2	11767.3	10880.8	10250.5	9814.2	9786.5	10089.5	11100.7	8536.3
40°	13606.2	13670.2	13500.5	13116.1	12269.4	11419.3	10827.1	10731.9	10920.6	11971.6	9040.2
42.5°	14073.7	14101.4	14097.9	14148.1	13644.2	12799.3	11969.9	11779.4	11905.8	12911.8	9549.2
45°	14077.1	14146.4	14331.7	14814.7	14837.3	14310.9	13414.0	13116.1	13000.1	13859.0	10080.8
47.5°	13446.9	13521.3	14030.4	14981.0	15682.2	15801.7	15143.7	14546.4	14058.1	14674.5	10517.2
50°	11538.7	11725.7	12695.4	14376.7	15848.5	16996.4	16793.9	15983.5	14998.3	15304.8	10790.7
52.5°	9881.7	9874.8	10472.1	12669.4	15154.1	17522.8	18390.3	17462.2	15928.1	15704.7	10860.0
55°	7236.0	7275.8	7887.0	9689.5	13301.4	17013.8	19268.2	18823.2	16994.7	15917.7	10832.3
57.5°	3752.2	3949.6	4576.4	6183.2	10106.8	15261.5	19034.4	19330.5	18078.6	16068.4	10868.6
60°	1896.0	1857.9	2083.0	2952.2	5855.9	11919.7	17593.8	18537.5	18274.3	16186.1	10891.2
62.5°	1265.7	1255.3	1193.0	1367.9	2392.9	7059.3	14998.3	16321.2	16915.1	15909.1	10603.7
65°	1096.0	1075.3	961.0	954.1	1161.8	2928.0	10993.3	12830.4	13980.2	14678.0	9916.3
67.5°	987.0	955.8	839.8	782.6	834.6	1286.5	6195.3	8605.6	10323.2	12413.1	8409.9
70°	881.3	865.8	749.7	666.6	661.4	784.4	2282.1	4441.3	6316.5	8468.8	6148.6
72.5°	789.6	761.9	663.2	583.5	543.7	555.8	990.4	1710.7	3269.1	5282.8	3677.7
75°	683.9	663.2	576.6	496.9	448.5	406.9	604.3	791.3	1490.8	2510.7	1736.7
77.5°	528.1	514.3	455.4	394.8	367.1	303.0	367.1	498.7	689.1	1057.9	903.8
80°	306.5	315.1	339.4	308.2	270.1	216.4	238.9	287.4	413.8	573.1	512.5
82.5°	154.1	164.5	219.9	178.3	161.0	126.4	142.0	169.7	216.4	316.9	200.9
85°	12.1	12.1	39.8	45.0	55.4	45.0	57.1	69.3	98.7	126.4	67.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	5.2	8.7	15.6	29.4	19.0
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°	6037.8	6037.8	6037.8	6037.8	6037.8	6037.8	6037.8	6037.8	6037.8	6037.8	6037.8
2.5°	6048.1	5959.8	5854.2	5767.6	5634.3	5563.3	5473.3	5362.5	5317.4	5296.7	5284.5
5°	6060.3	5904.4	5679.3	5471.6	5241.3	5059.5	4856.9	4645.6	4524.4	4495.0	4474.2
7.5°	6105.3	5887.1	5528.7	5185.9	4758.2	4361.7	3975.5	3592.9	3397.2	3322.8	3315.8
10°	6167.6	5880.2	5376.3	4806.7	4084.6	3457.8	3005.9	2706.3	2579.9	2538.4	2524.5
12.5°	6245.5	5875.0	5175.5	4280.3	3307.2	2715.0	2457.0	2408.5	2425.8	2422.4	2422.4
15°	6344.2	5881.9	4933.1	3684.6	2675.2	2356.6	2361.8	2418.9	2472.6	2481.2	2481.2
17.5°	6451.6	5875.0	4581.6	3087.3	2296.0	2271.7	2351.4	2431.0	2479.5	2486.4	2486.4
20°	6567.6	5842.1	4138.3	2524.5	2129.7	2218.1	2304.6	2367.0	2396.4	2403.3	2403.3
22.5°	6636.9	5748.6	3656.9	2136.7	2024.1	2133.2	2190.4	2254.4	2257.9	2202.5	2200.7
25°	6626.5	5573.7	3108.0	1887.3	1911.6	2006.8	2079.5	2034.5	1979.1	1947.9	1942.7
27.5°	6560.7	5310.5	2548.8	1698.6	1778.3	1885.6	1863.1	1825.0	1811.2	1776.5	1773.1
30°	6477.6	4986.7	2046.6	1551.4	1639.7	1738.4	1703.8	1700.3	1686.5	1648.4	1648.4
32.5°	6397.9	4652.5	1667.4	1442.3	1551.4	1558.4	1606.8	1610.3	1603.4	1537.6	1530.6
35°	6375.4	4318.4	1411.2	1355.8	1464.9	1461.4	1530.6	1528.9	1409.4	1317.7	1315.9
37.5°	6442.9	3979.0	1258.8	1284.8	1345.4	1390.4	1445.8	1345.4	1305.6	1250.1	1246.7
40°	6586.6	3665.6	1180.9	1243.2	1269.2	1335.0	1248.4	1255.3	1245.0	1203.4	1198.2
42.5°	6777.1	3398.9	1137.6	1229.4	1225.9	1243.2	1148.0	1175.7	1191.3	1160.1	1154.9
45°	6960.6	3166.9	1115.1	1177.4	1194.7	1094.3	1075.3	1101.2	1125.5	1113.4	1108.2
47.5°	7095.7	2966.1	1103.0	1106.4	1154.9	1044.1	1012.9	1025.1	1054.5	1059.7	1057.9
50°	7137.3	2794.6	1089.1	1047.6	1037.2	993.9	969.6	966.2	1000.8	1025.1	1028.5
52.5°	7057.6	2642.3	1052.8	995.6	945.4	952.3	943.7	926.4	961.0	993.9	997.3
55°	6939.9	2555.7	995.6	945.4	886.5	914.2	917.7	902.1	924.6	947.1	947.1
57.5°	6948.5	2605.9	940.2	898.7	834.6	870.9	890.0	883.1	883.1	900.4	902.1
60°	7005.7	2678.6	903.8	839.8	782.6	820.7	864.0	857.1	841.5	864.0	864.0
62.5°	6841.2	2581.7	879.6	782.6	727.2	772.3	824.2	820.7	803.4	839.8	843.2
65°	6356.3	2321.9	851.9	711.6	671.8	723.8	768.8	780.9	765.3	813.8	822.5
67.5°	5327.8	1953.1	798.2	644.1	616.4	664.9	708.2	725.5	713.4	770.5	777.4
70°	3972.1	1580.9	713.4	569.7	548.9	592.2	632.0	638.9	640.7	708.2	715.1
72.5°	2533.2	1229.4	600.8	486.6	471.0	503.9	533.3	561.0	573.1	637.2	635.5
75°	1412.9	914.2	483.1	412.1	384.4	410.4	445.0	477.9	512.5	606.0	616.4
77.5°	813.8	642.4	382.7	330.7	297.8	325.5	355.0	401.7	505.6	587.0	576.6
80°	458.8	417.3	289.2	242.4	221.6	242.4	264.9	353.2	398.2	432.9	438.1
82.5°	214.7	233.8	197.4	148.9	148.9	162.8	183.5	273.6	301.3	245.9	214.7
85°	77.9	105.6	97.0	76.2	67.5	65.8	114.3	155.8	97.0	86.6	74.5
87.5°	20.8	29.4	27.7	19.0	10.4	8.7	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)