

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: P638245

Luminaire Tested: GWS-SA4E-740-U-AFL-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638245
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-SA4E-740-U-AFL-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: (64) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31163.1 lumens
Efficiency: N/A
Efficacy: 153.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

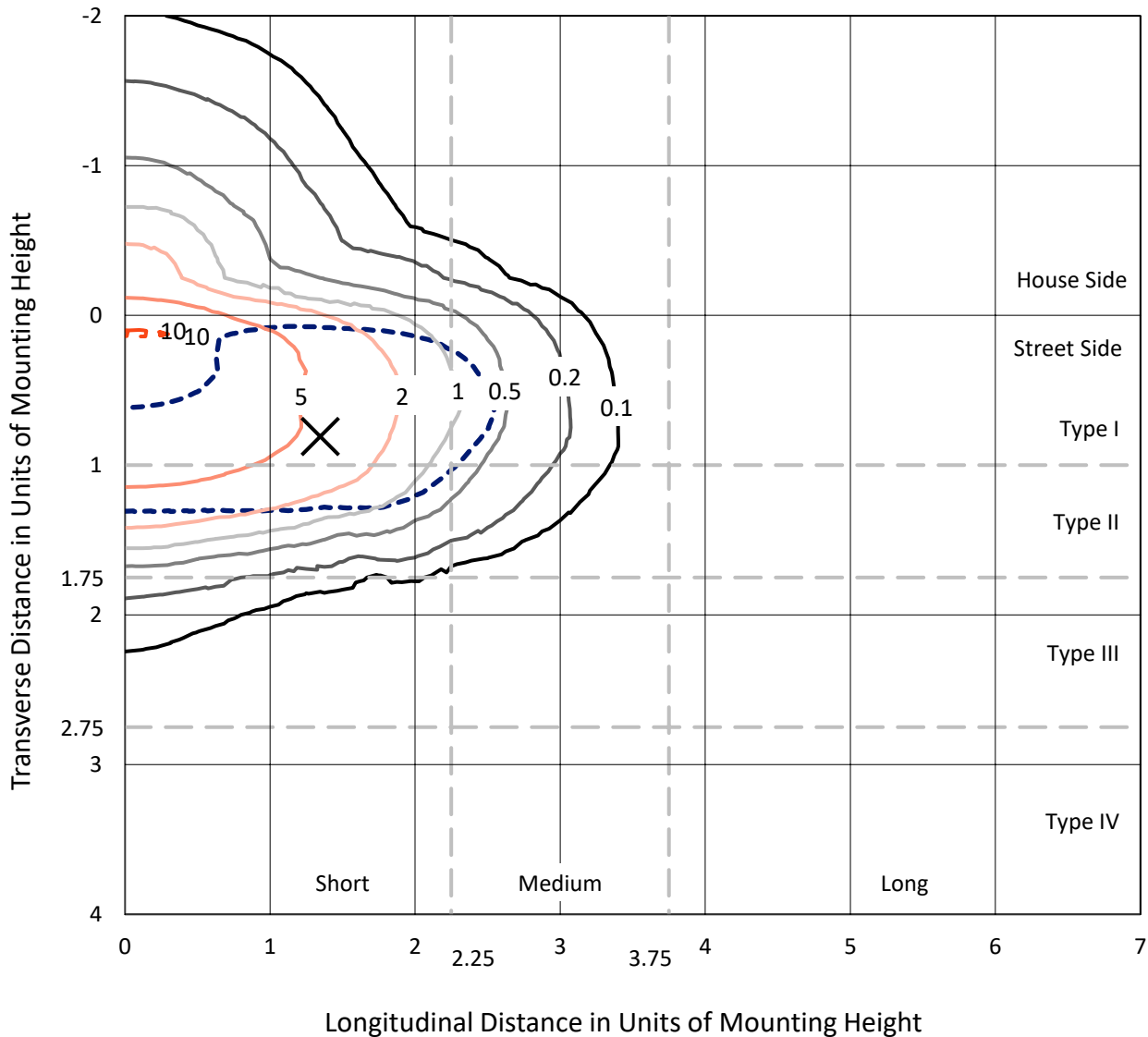
Input Watts (W): 202.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

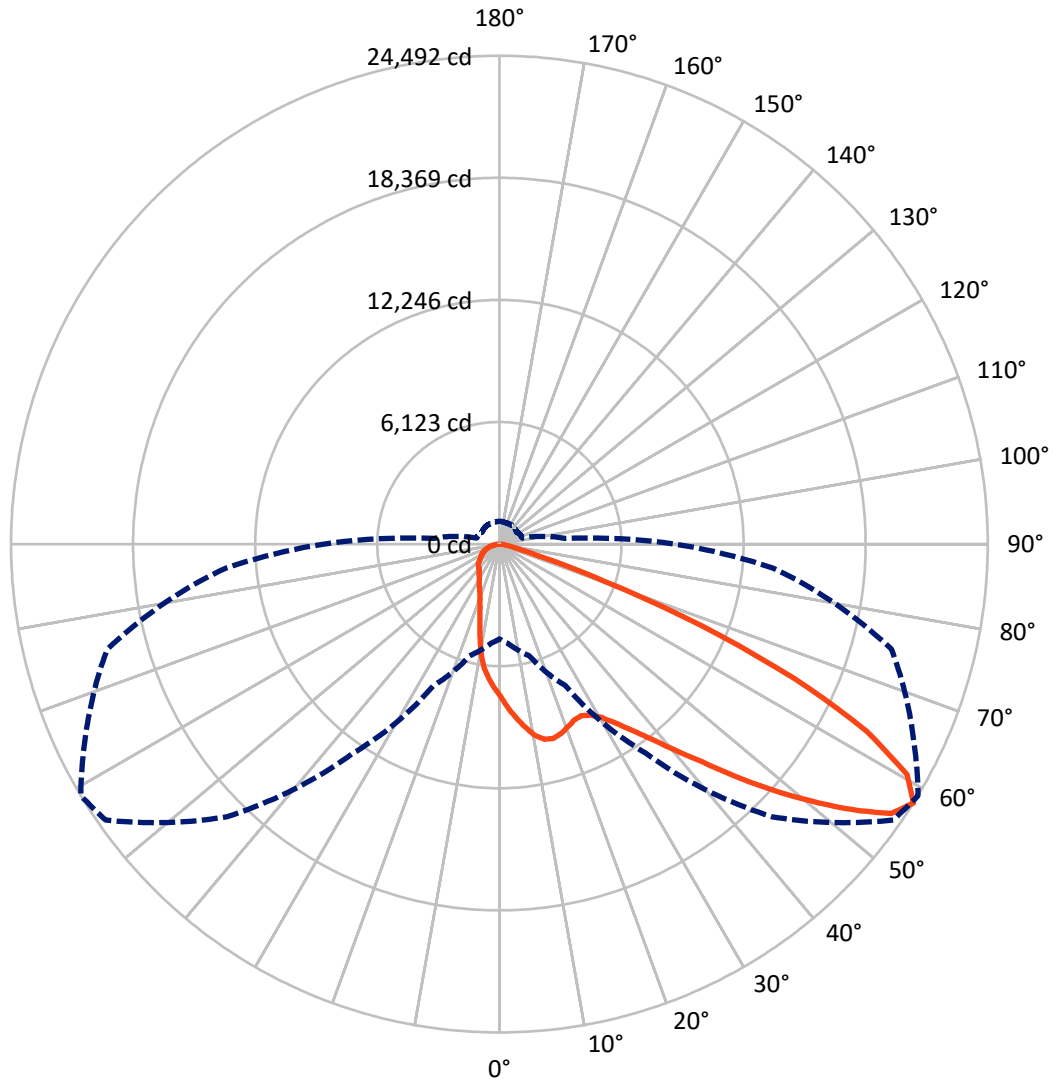
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 10.4 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	4836.4	0.0	4836.4
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	26326.7	0.0	26326.7
	% Fixture	84.5	0.0	84.5
Total	Lumens	31163.1	0.0	31163.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	710.3	2.3
10°-20°	1799.9	5.8
20°-30°	2917.7	9.4
30°-40°	4693.5	15.1
40°-50°	7288.5	23.4
50°-60°	7850.7	25.2
60°-70°	4556.3	14.6
70°-80°	1189.4	3.8
80°-90°	156.7	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°	31163.1	100.0
0°-180°	31163.1	100.0

Coefficient of Utilization



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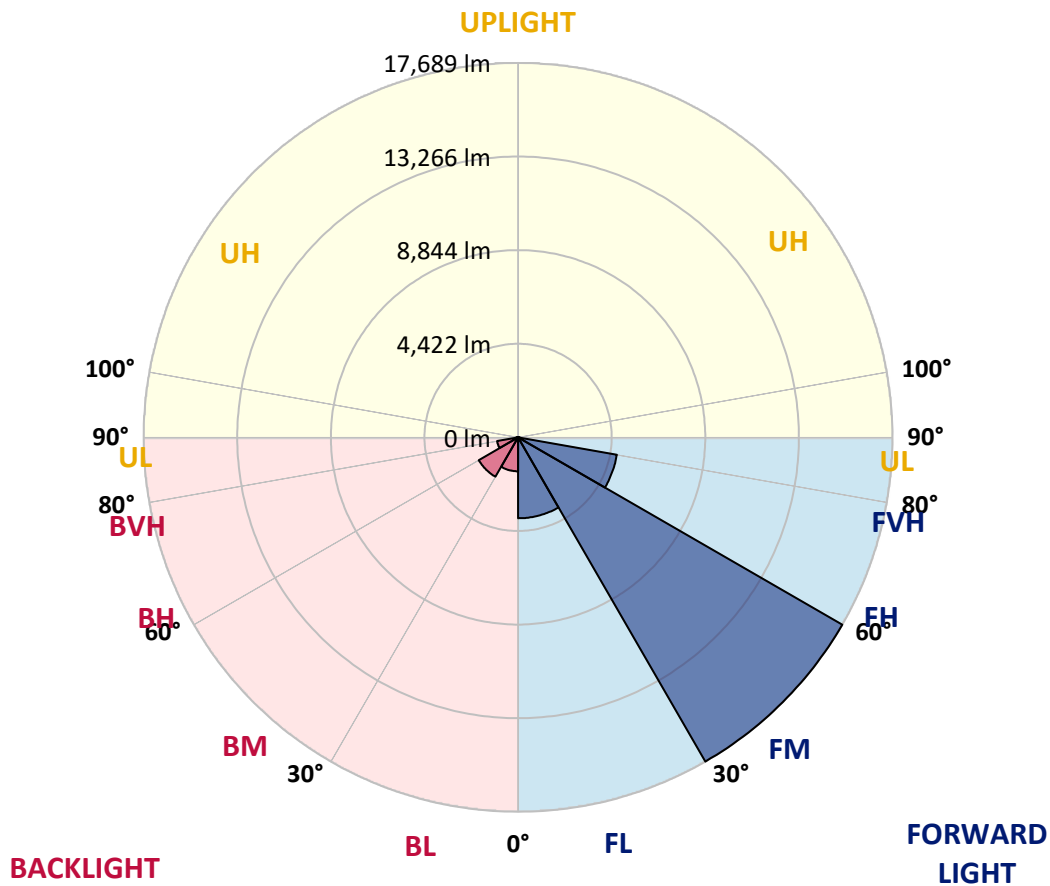
CATALOG NUMBER: GWS-SA4E-740-U-AFL-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3823.4	12.3			
FM (30°-60°)	17688.5	56.8			
FH (60°-80°)	4739.8	15.2			G2/5000
FVH (80°-90°)	75.0	0.2			G1/100
BL (0°-30°)	1604.5	5.1	B3/2500		
BM (30°-60°)	2144.2	6.9	B2/2500		
BH (60°-80°)	1005.9	3.2	B3/2500		G3/2500
BVH (80°-90°)	81.7	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-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	7649.9	7649.9	7649.9	7649.9	7649.9	7649.9	7649.9	7649.9	7649.9	7649.9	7649.9
2.5°	8676.6	8604.2	8654.7	8564.7	8527.5	8428.7	8301.5	8215.9	8084.3	7913.2	7764.0
5°	9538.8	9488.4	9499.3	9402.8	9317.2	9152.7	8891.6	8746.8	8523.1	8178.6	7858.3
7.5°	9512.5	9571.7	9604.6	9688.0	9712.1	9696.8	9462.0	9260.2	9014.5	8496.7	8014.1
10°	8527.5	8639.3	8740.3	9025.5	9372.1	9810.8	9865.7	9745.0	9497.1	8902.6	8200.6
12.5°	7454.7	7540.2	7630.2	7972.4	8503.3	9380.9	9975.4	10050.0	9951.3	9304.1	8411.2
15°	6928.1	6967.6	7053.2	7279.2	7702.6	8676.6	9784.5	10111.4	10289.1	9729.7	8648.1
17.5°	6906.2	6923.8	6965.4	7086.1	7380.1	8132.6	9440.1	9988.6	10554.6	10179.4	8924.5
20°	7360.3	7314.3	7287.9	7285.7	7430.5	7950.5	9106.6	9791.1	10679.6	10640.1	9220.7
22.5°	7990.0	8005.3	7948.3	7807.9	7790.3	8079.9	8939.9	9591.5	10716.9	11048.2	9494.9
25°	8882.9	8959.6	8790.7	8523.1	8391.4	8455.1	9043.0	9530.0	10712.5	11388.2	9666.1
27.5°	9924.9	9984.2	9813.0	9462.0	9190.0	9036.4	9350.1	9712.1	10749.8	11682.2	9769.2
30°	11111.8	11131.5	10896.8	10528.2	10131.2	9802.1	9861.3	10087.3	10940.7	12068.3	9889.8
32.5°	12561.9	12645.3	12289.9	11706.3	11151.3	10730.1	10548.0	10692.8	11353.1	12524.6	10076.3
35°	14402.6	14431.1	13979.1	13143.3	12357.9	11774.3	11392.6	11469.4	11980.6	13163.0	10357.1
37.5°	16137.9	16166.4	15686.0	14909.3	13786.1	12987.5	12434.7	12399.6	12783.5	14064.7	10815.6
40°	17239.2	17320.4	17105.4	16618.3	15545.5	14468.4	13718.1	13597.4	13836.5	15168.2	11454.0
42.5°	17831.5	17866.6	17862.2	17925.9	17287.5	16216.9	15166.0	14924.7	15084.8	16359.5	12099.0
45°	17835.9	17923.7	18158.4	18770.5	18799.0	18132.1	16995.7	16618.3	16471.3	17559.5	12772.5
47.5°	17037.4	17131.7	17776.7	18981.1	19869.6	20021.0	19187.3	18430.4	17811.8	18592.8	13325.4
50°	14619.7	14856.7	16085.2	18215.4	20080.2	21534.7	21278.0	20251.3	19003.0	19391.3	13672.0
52.5°	12520.2	12511.5	13268.3	16052.3	19200.5	22201.7	23300.8	22124.9	20181.1	19898.1	13759.8
55°	9168.1	9218.5	9992.9	12276.7	16853.1	21556.7	24413.0	23849.2	21532.5	20168.0	13724.7
57.5°	4754.0	5004.1	5798.3	7834.2	12805.4	19336.5	24116.9	24492.0	22905.9	20358.8	13770.7
60°	2402.3	2354.0	2639.2	3740.5	7419.6	15102.4	22291.6	23487.2	23153.8	20508.0	13799.2
62.5°	1603.7	1590.5	1511.6	1733.1	3031.9	8944.3	19003.0	20679.1	21431.6	20157.0	13435.1
65°	1388.7	1362.4	1217.6	1208.8	1472.1	3709.8	13928.7	16256.3	17713.1	18597.2	12564.1
67.5°	1250.5	1211.0	1064.0	991.6	1057.4	1630.0	7849.6	10903.4	13079.7	15727.6	10655.5
70°	1116.7	1096.9	949.9	844.6	838.0	993.8	2891.5	5627.2	8003.1	10730.1	7790.3
72.5°	1000.4	965.3	840.2	739.3	688.9	704.2	1254.9	2167.5	4142.0	6693.4	4659.7
75°	866.6	840.2	730.5	629.6	568.2	515.6	765.6	1002.6	1888.9	3181.1	2200.4
77.5°	669.1	651.6	577.0	500.2	465.1	383.9	465.1	631.8	873.1	1340.4	1145.2
80°	388.3	399.3	430.0	390.5	342.2	274.2	302.7	364.2	524.3	726.2	649.4
82.5°	195.3	208.4	278.6	226.0	204.0	160.2	179.9	215.0	274.2	401.5	254.5
85°	15.4	15.4	50.5	57.0	70.2	57.0	72.4	87.8	125.0	160.2	85.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	6.6	11.0	19.7	37.3	24.1
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°	7649.9	7649.9	7649.9	7649.9	7649.9	7649.9	7649.9	7649.9	7649.9	7649.9	7649.9
2.5°	7663.1	7551.2	7417.4	7307.7	7138.8	7048.8	6934.7	6794.3	6737.3	6711.0	6695.6
5°	7678.4	7481.0	7195.8	6932.5	6640.8	6410.4	6153.7	5886.1	5732.5	5695.2	5668.9
7.5°	7735.5	7459.1	7004.9	6570.5	6028.7	5526.3	5037.1	4552.2	4304.3	4210.0	4201.2
10°	7814.5	7450.3	6811.9	6090.1	5175.3	4381.1	3808.5	3429.0	3268.8	3216.2	3198.6
12.5°	7913.2	7443.7	6557.4	5423.2	4190.2	3439.9	3113.1	3051.6	3073.6	3069.2	3069.2
15°	8038.2	7452.5	6250.2	4668.5	3389.5	2985.8	2992.4	3064.8	3132.8	3143.8	3143.8
17.5°	8174.2	7443.7	5804.9	3911.6	2909.0	2878.3	2979.2	3080.2	3141.6	3150.4	3150.4
20°	8321.2	7402.0	5243.3	3198.6	2698.4	2810.3	2920.0	2999.0	3036.3	3045.0	3045.0
22.5°	8409.0	7283.5	4633.4	2707.2	2564.6	2702.8	2775.2	2856.4	2860.8	2790.6	2788.4
25°	8395.8	7062.0	3937.9	2391.3	2422.0	2542.7	2634.8	2577.8	2507.6	2468.1	2461.5
27.5°	8312.5	6728.5	3229.3	2152.2	2253.1	2389.1	2360.6	2312.3	2294.8	2250.9	2246.5
30°	8207.2	6318.3	2593.1	1965.7	2077.6	2202.6	2158.7	2154.4	2136.8	2088.5	2088.5
32.5°	8106.2	5894.8	2112.7	1827.5	1965.7	1974.5	2035.9	2040.3	2031.5	1948.1	1939.4
35°	8077.7	5471.4	1788.0	1717.8	1856.0	1851.6	1939.4	1937.2	1785.8	1669.5	1667.3
37.5°	8163.3	5041.4	1594.9	1627.8	1704.6	1761.7	1831.9	1704.6	1654.2	1584.0	1579.6
40°	8345.4	4644.4	1496.2	1575.2	1608.1	1691.5	1581.8	1590.5	1577.4	1524.7	1518.1
42.5°	8586.7	4306.5	1441.4	1557.6	1553.2	1575.2	1454.5	1489.6	1509.4	1469.9	1463.3
45°	8819.2	4012.5	1412.8	1491.8	1513.7	1386.5	1362.4	1395.3	1426.0	1410.6	1404.1
47.5°	8990.4	3758.0	1397.5	1401.9	1463.3	1322.9	1283.4	1298.8	1336.0	1342.6	1340.4
50°	9043.0	3540.9	1379.9	1327.3	1314.1	1259.3	1228.6	1224.2	1268.0	1298.8	1303.1
52.5°	8942.1	3347.8	1333.9	1261.5	1197.8	1206.6	1195.6	1173.7	1217.6	1259.3	1263.7
55°	8792.9	3238.1	1261.5	1197.8	1123.2	1158.3	1162.7	1143.0	1171.5	1200.0	1200.0
57.5°	8803.9	3301.7	1191.3	1138.6	1057.4	1103.5	1127.6	1118.9	1118.9	1140.8	1143.0
60°	8876.3	3393.9	1145.2	1064.0	991.6	1039.9	1094.7	1086.0	1066.2	1094.7	1094.7
62.5°	8667.9	3271.0	1114.5	991.6	921.4	978.5	1044.3	1039.9	1017.9	1064.0	1068.4
65°	8053.6	2941.9	1079.4	901.7	851.2	917.0	974.1	989.4	969.7	1031.1	1042.1
67.5°	6750.4	2474.7	1011.4	816.1	781.0	842.4	897.3	919.2	903.9	976.3	985.0
70°	5032.7	2003.0	903.9	721.8	695.4	750.3	800.8	809.5	811.7	897.3	906.1
72.5°	3209.6	1557.6	761.3	616.5	596.7	638.4	675.7	710.8	726.2	807.3	805.1
75°	1790.2	1158.3	612.1	522.1	487.0	519.9	563.8	605.5	649.4	767.8	781.0
77.5°	1031.1	813.9	484.8	419.0	377.3	412.4	449.7	509.0	640.6	743.7	730.5
80°	581.4	528.7	366.4	307.1	280.8	307.1	335.7	447.5	504.6	548.5	555.0
82.5°	272.0	296.2	250.1	188.7	188.7	206.2	232.5	346.6	381.7	311.5	272.0
85°	98.7	133.8	122.9	96.5	85.6	83.4	144.8	197.4	122.9	109.7	94.3
87.5°	26.3	37.3	35.1	24.1	13.2	11.0	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)