

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: P637890

Luminaire Tested: GWS-SA4D-760-U-T2R-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637890
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-11)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4D-760-U-T2R-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS
Light Source: (64) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25193 lumens
Efficiency: N/A
Efficacy: 155.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

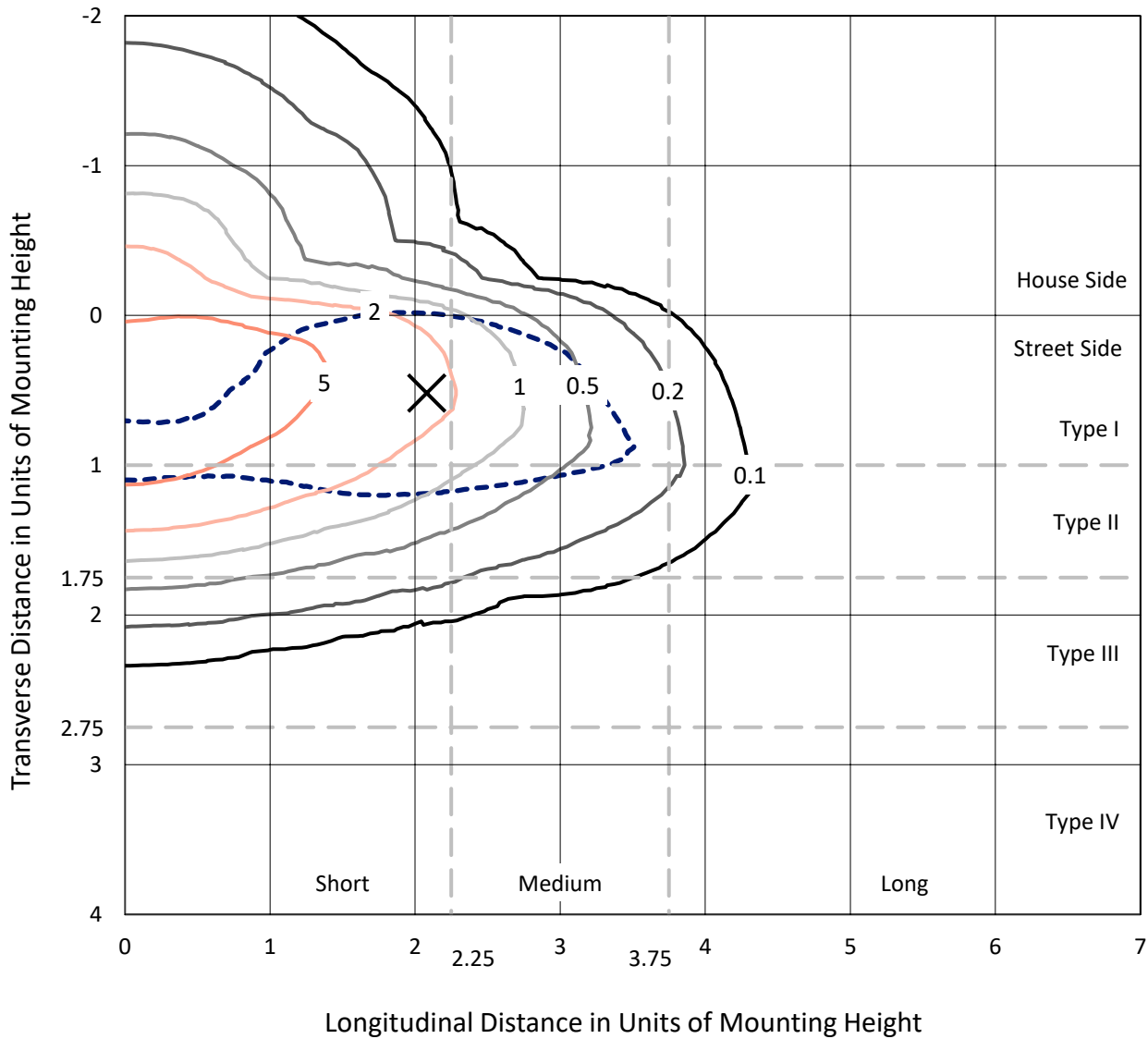
Input Watts (W): 162.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

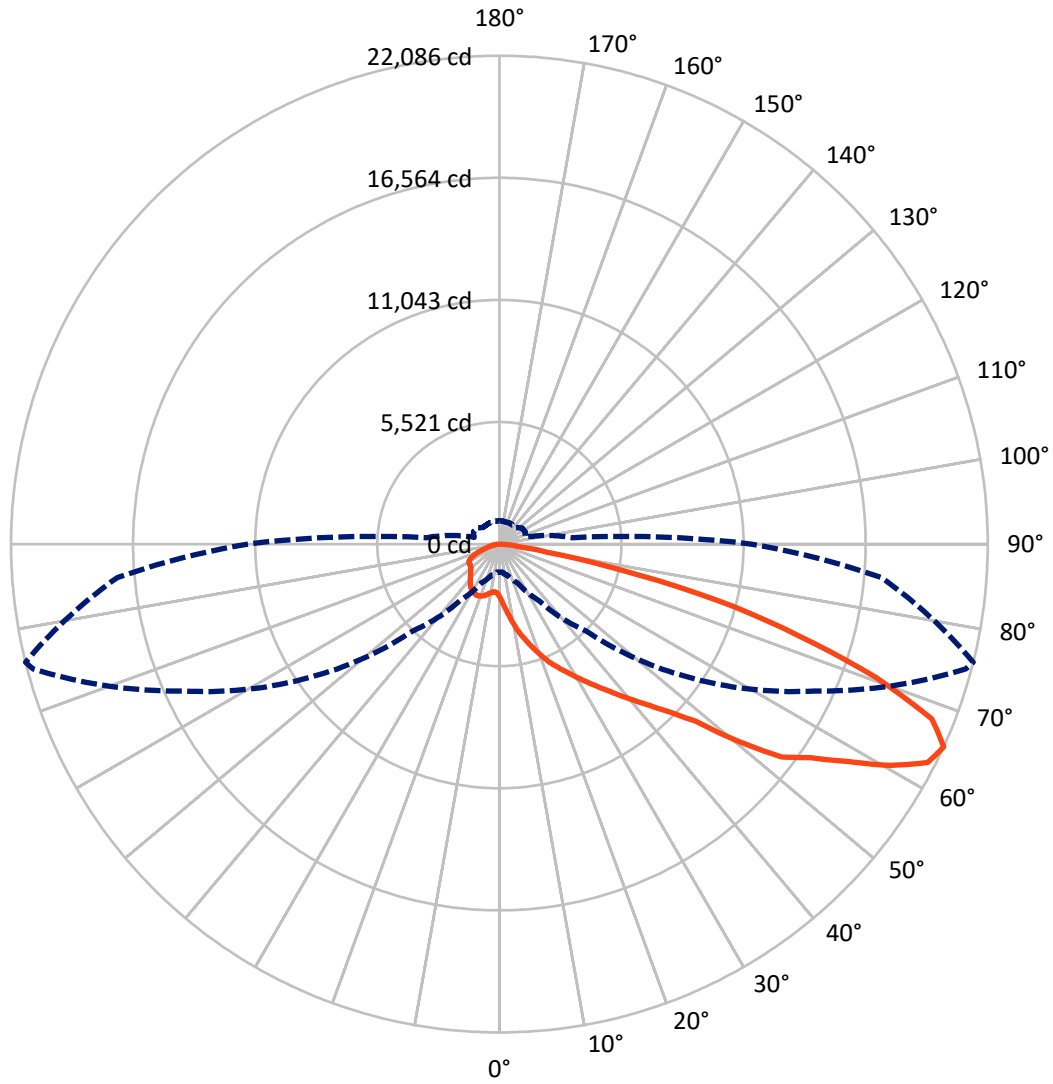
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4211.0	0.0	4211.0
	% Fixture	16.7	0.0	16.7
Street Side	Lumens	20982.0	0.0	20982.0
	% Fixture	83.3	0.0	83.3
Total	Lumens	25193.0	0.0	25193.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	283.4	1.1
10°-20°	1079.6	4.3
20°-30°	2103.9	8.4
30°-40°	3518.7	14.0
40°-50°	5038.1	20.0
50°-60°	5964.4	23.7
60°-70°	4959.4	19.7
70°-80°	2029.5	8.1
80°-90°	216.1	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°	25193.0	100.0
0°-180°	25193.0	100.0

Coefficient of Utilization



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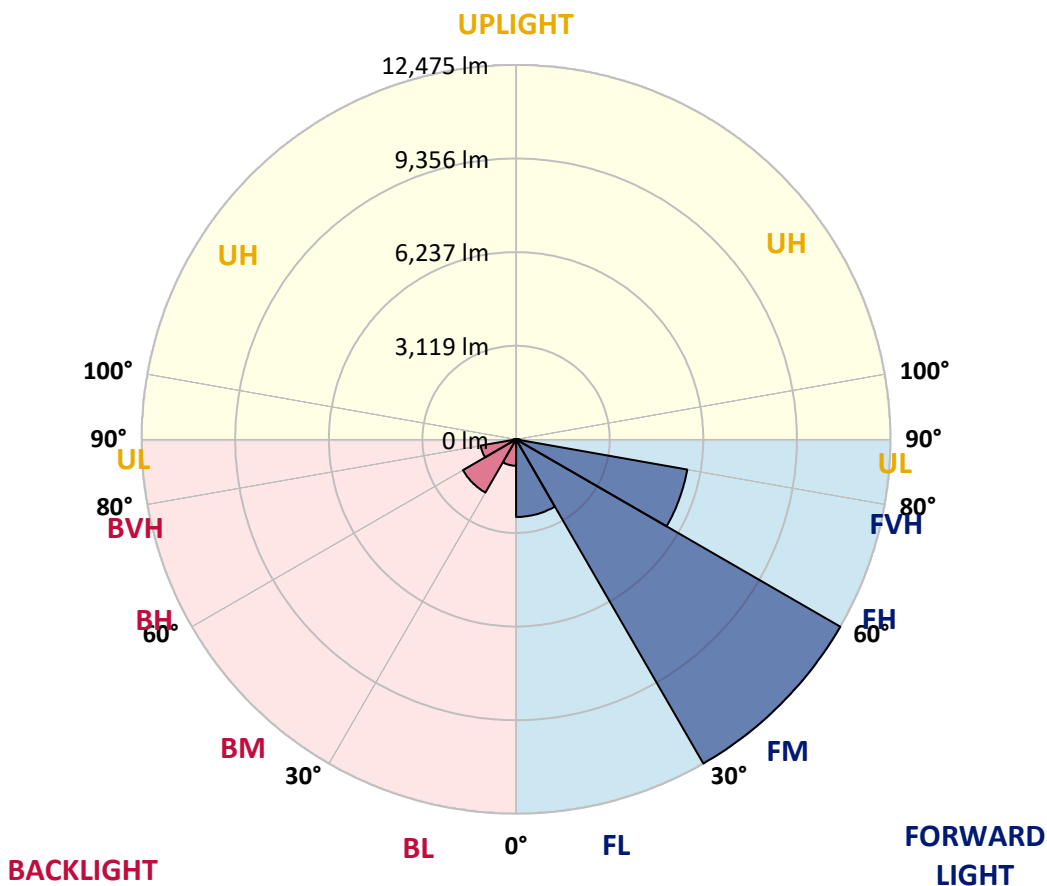
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2586.0	10.3			
FM (30°-60°)	12474.6	49.5			
FH (60°-80°)	5792.5	23.0			G3/7500
FVH (80°-90°)	128.9	0.5			G2/225
BL (0°-30°)	880.9	3.5	B2/1000		
BM (30°-60°)	2046.5	8.1	B2/2500		
BH (60°-80°)	1196.4	4.7	B3/2500		G3/2500
BVH (80°-90°)	87.2	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°	65°	75°	76°	85°
0°	2385.7	2385.7	2385.7	2385.7	2385.7	2385.7	2385.7	2385.7	2385.7	2385.7	2385.7
2.5°	3343.9	3356.3	3315.5	3301.3	3205.7	3076.4	2968.4	2805.4	2654.9	2631.9	2497.3
5°	4247.1	4194.0	4147.9	4117.8	3985.0	3838.0	3609.5	3303.1	2982.5	2943.6	2653.1
7.5°	4783.8	4774.9	4718.2	4700.5	4597.8	4450.8	4215.2	3834.5	3368.6	3304.9	2863.9
10°	5214.1	5208.8	5180.5	5196.4	5102.6	4959.1	4730.6	4337.4	3791.9	3728.2	3099.4
12.5°	5589.6	5598.5	5593.2	5651.6	5603.8	5492.2	5254.9	4822.7	4215.2	4146.2	3386.4
15°	5864.1	5871.2	5897.8	6025.3	6051.9	6028.9	5788.0	5299.2	4633.2	4534.0	3682.1
17.5°	5942.1	5956.2	6020.0	6225.4	6368.9	6464.5	6285.7	5784.4	5044.1	4936.1	3983.2
20°	6046.6	6062.5	6126.3	6340.6	6551.3	6769.2	6737.3	6276.8	5458.6	5370.0	4287.9
22.5°	6530.1	6517.7	6489.3	6592.1	6742.6	7013.6	7093.3	6749.7	5887.2	5802.2	4624.4
25°	7461.7	7438.7	7258.0	7164.1	7114.5	7279.3	7420.9	7180.1	6305.1	6177.6	4937.9
27.5°	8488.9	8476.5	8246.3	8023.1	7718.5	7647.6	7730.9	7555.6	6710.7	6581.4	5210.6
30°	9461.3	9424.1	9183.2	8903.4	8496.0	8191.4	8069.2	7923.9	7155.3	7020.7	5529.4
32.5°	10330.9	10283.1	9999.7	9689.7	9262.9	8903.4	8538.5	8315.4	7658.3	7502.4	5855.3
35°	11044.6	10996.8	10706.4	10376.9	9907.6	9641.9	9142.5	8740.4	8170.1	8012.5	6239.6
37.5°	11597.2	11552.9	11250.1	10926.0	10516.8	10306.1	9872.2	9218.6	8759.9	8595.2	6647.0
40°	11907.2	11875.3	11632.6	11375.8	11032.2	10849.8	10655.0	9822.6	9420.5	9255.8	7126.9
42.5°	12001.0	11979.8	11809.8	11676.9	11444.9	11306.8	11418.3	10532.8	10125.4	9982.0	7667.1
45°	11765.5	11765.5	11715.9	11783.2	11793.8	11792.0	12183.5	11335.1	10991.5	10833.9	8428.7
47.5°	11163.3	11202.3	11274.9	11606.1	11955.0	12247.2	13077.9	12404.8	12105.5	11976.2	9507.3
50°	10061.7	10167.9	10415.9	11062.3	11804.4	12548.3	13924.5	13986.4	14271.6	14043.1	11094.2
52.5°	8448.2	8432.3	9064.5	9985.5	11117.3	12560.7	14390.3	15382.1	16149.0	15991.3	12273.8
55°	6714.3	6687.7	7277.5	8547.4	10063.4	12086.0	14670.1	16021.5	17190.4	17048.7	13334.7
57.5°	5141.5	5107.9	5632.1	6778.0	8575.7	11078.3	14617.0	16783.0	18623.2	18550.6	14776.4
60°	3538.7	3497.9	3988.5	4991.0	6815.2	9537.4	14029.0	17174.4	20300.5	20325.2	16319.0
62.5°	2125.3	2102.3	2458.3	3235.8	4902.4	7628.2	12652.8	16937.1	21635.9	21747.4	17310.8
65°	1282.3	1266.3	1475.3	1930.5	3110.1	5566.6	10531.0	15723.9	21828.9	22085.7	17333.8
67.5°	933.4	935.1	995.4	1176.0	1813.6	3595.4	7902.7	13549.0	20822.9	21088.6	16241.1
70°	811.2	814.7	846.6	887.3	1096.3	2058.0	5138.0	10695.7	17849.2	18054.7	13621.6
72.5°	720.8	720.8	742.1	763.3	857.2	1253.9	2752.3	7475.9	14087.4	14142.3	10396.4
75°	634.1	628.7	639.4	650.0	743.9	876.7	1339.0	5208.8	10405.3	10277.7	6719.6
77.5°	504.8	499.5	501.2	511.9	596.9	627.0	678.3	3253.5	5864.1	5534.7	2968.4
80°	359.5	356.0	375.5	402.0	441.0	384.3	425.1	1574.5	2325.5	2164.3	1151.2
82.5°	214.3	221.4	251.5	272.8	304.6	240.9	274.5	526.0	823.6	802.3	467.6
85°	30.1	31.9	90.3	104.5	131.1	93.9	145.2	237.3	329.4	352.5	164.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	12.4	42.5	93.9	95.6	40.7
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°	2385.7	2385.7	2385.7	2385.7	2385.7	2385.7	2385.7	2385.7	2385.7	2385.7	2385.7
2.5°	2428.2	2344.9	2226.3	2127.1	2043.9	1976.6	1919.9	1877.4	1865.0	1847.3	1847.3
5°	2516.7	2366.2	2153.7	2003.1	1916.3	1865.0	1829.6	1811.8	1803.0	1792.4	1787.0
7.5°	2639.0	2428.2	2141.3	1989.0	1921.7	1889.8	1866.7	1856.1	1849.0	1838.4	1838.4
10°	2807.2	2520.3	2180.2	2038.5	1985.4	1953.5	1927.0	1909.3	1893.3	1877.4	1873.8
12.5°	2989.6	2640.7	2251.1	2105.8	2049.2	2010.2	1973.0	1946.4	1927.0	1907.5	1902.2
15°	3191.5	2764.7	2327.2	2171.4	2100.5	2047.4	2003.1	1962.4	1935.8	1907.5	1903.9
17.5°	3389.9	2890.5	2391.0	2215.7	2125.3	2059.8	1996.0	1942.9	1909.3	1877.4	1868.5
20°	3627.2	3016.2	2435.3	2228.1	2120.0	2033.2	1957.1	1889.8	1852.6	1815.4	1810.1
22.5°	3845.1	3133.1	2456.5	2210.3	2079.3	1976.6	1888.0	1815.4	1774.7	1737.5	1730.4
25°	4055.8	3235.8	2447.7	2167.8	2017.3	1898.6	1806.5	1733.9	1695.0	1656.0	1645.4
27.5°	4259.5	3304.9	2412.3	2102.3	1939.4	1811.8	1723.3	1657.8	1624.1	1590.5	1576.3
30°	4459.7	3368.6	2357.3	2017.3	1840.2	1721.5	1648.9	1602.9	1569.2	1533.8	1523.2
32.5°	4661.6	3414.7	2274.1	1918.1	1739.2	1641.8	1597.5	1563.9	1528.5	1493.0	1482.4
35°	4865.2	3434.2	2173.2	1804.8	1654.2	1590.5	1574.5	1535.6	1487.7	1445.2	1431.1
37.5°	5107.9	3451.9	2047.4	1693.2	1579.8	1565.7	1562.1	1503.7	1447.0	1388.5	1372.6
40°	5400.1	3474.9	1918.1	1592.2	1519.6	1556.8	1542.6	1462.9	1349.6	1292.9	1275.2
42.5°	5757.9	3517.4	1783.5	1500.1	1475.3	1523.2	1507.2	1363.8	1287.6	1255.7	1246.9
45°	6283.9	3673.3	1648.9	1427.5	1441.7	1475.3	1450.5	1305.3	1275.2	1253.9	1243.3
47.5°	7220.8	3912.4	1532.0	1372.6	1415.1	1432.8	1337.2	1289.4	1266.3	1238.0	1225.6
50°	8194.9	4016.9	1438.1	1339.0	1385.0	1393.9	1275.2	1268.1	1252.2	1222.1	1209.7
52.5°	8853.8	4002.7	1381.5	1326.6	1360.2	1326.6	1246.9	1245.1	1234.5	1199.0	1184.9
55°	9597.6	4027.5	1356.7	1330.1	1349.6	1213.2	1211.4	1216.8	1211.4	1172.5	1165.4
57.5°	10601.9	4103.7	1344.3	1342.5	1342.5	1158.3	1177.8	1184.9	1174.2	1156.5	1151.2
60°	11567.1	4109.0	1321.2	1356.7	1337.2	1124.7	1138.8	1145.9	1133.5	1130.0	1128.2
62.5°	11930.2	3853.9	1269.9	1346.0	1315.9	1087.5	1098.1	1101.6	1089.2	1098.1	1096.3
65°	11390.0	3312.0	1184.9	1294.7	1250.4	1053.8	1046.7	1055.6	1034.3	1057.4	1059.1
67.5°	10113.0	2631.9	1055.6	1197.3	1158.3	1016.6	1002.4	1002.4	967.0	1002.4	1000.7
70°	8154.2	1859.7	866.1	1041.4	1057.4	972.3	965.3	924.5	867.8	921.0	915.7
72.5°	6181.2	1335.4	681.9	823.6	910.4	910.4	912.1	843.0	777.5	802.3	781.1
75°	3915.9	940.5	545.5	630.5	713.8	798.8	839.5	712.0	653.5	642.9	632.3
77.5°	1764.0	618.1	425.1	483.5	506.5	630.5	766.9	612.8	533.1	510.1	503.0
80°	738.6	384.3	302.9	341.8	311.7	529.6	676.6	476.4	391.4	359.5	336.5
82.5°	324.1	228.5	193.1	184.2	194.8	393.2	504.8	317.0	244.4	331.2	334.7
85°	136.4	120.4	99.2	90.3	79.7	150.5	237.3	124.0	152.3	86.8	70.8
87.5°	31.9	35.4	26.6	17.7	10.6	1.8	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)