

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: P639290

Luminaire Tested: GWS-SA5B-750-U-AFL-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639290
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-SA5B-750-U-AFL-W
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND
AUTOMOTIVE FRONTLINE OPTICS
Light Source: (80) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18495.4 lumens
Efficiency: N/A
Efficacy: 159.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

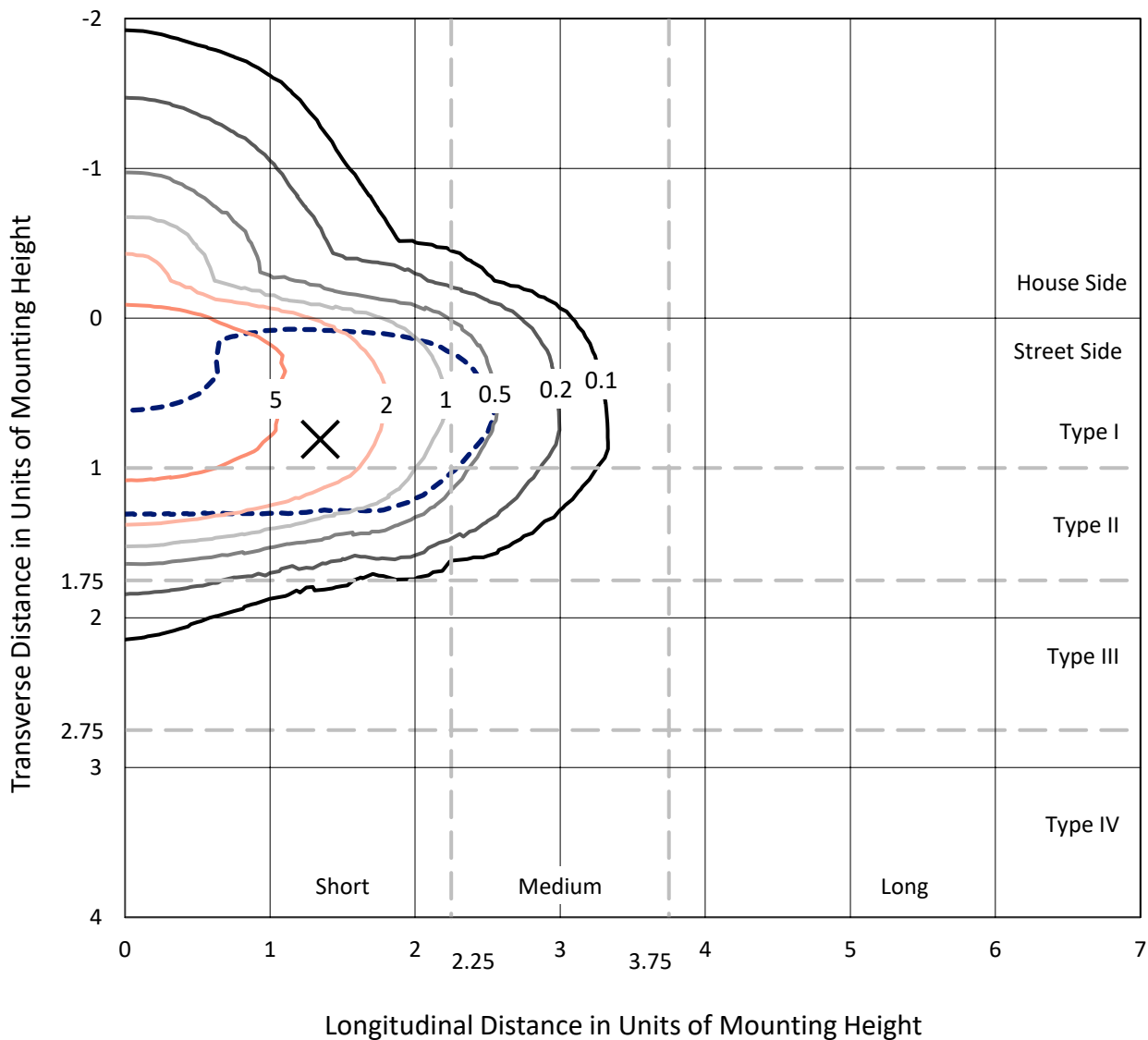
Input Watts (W): 115.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

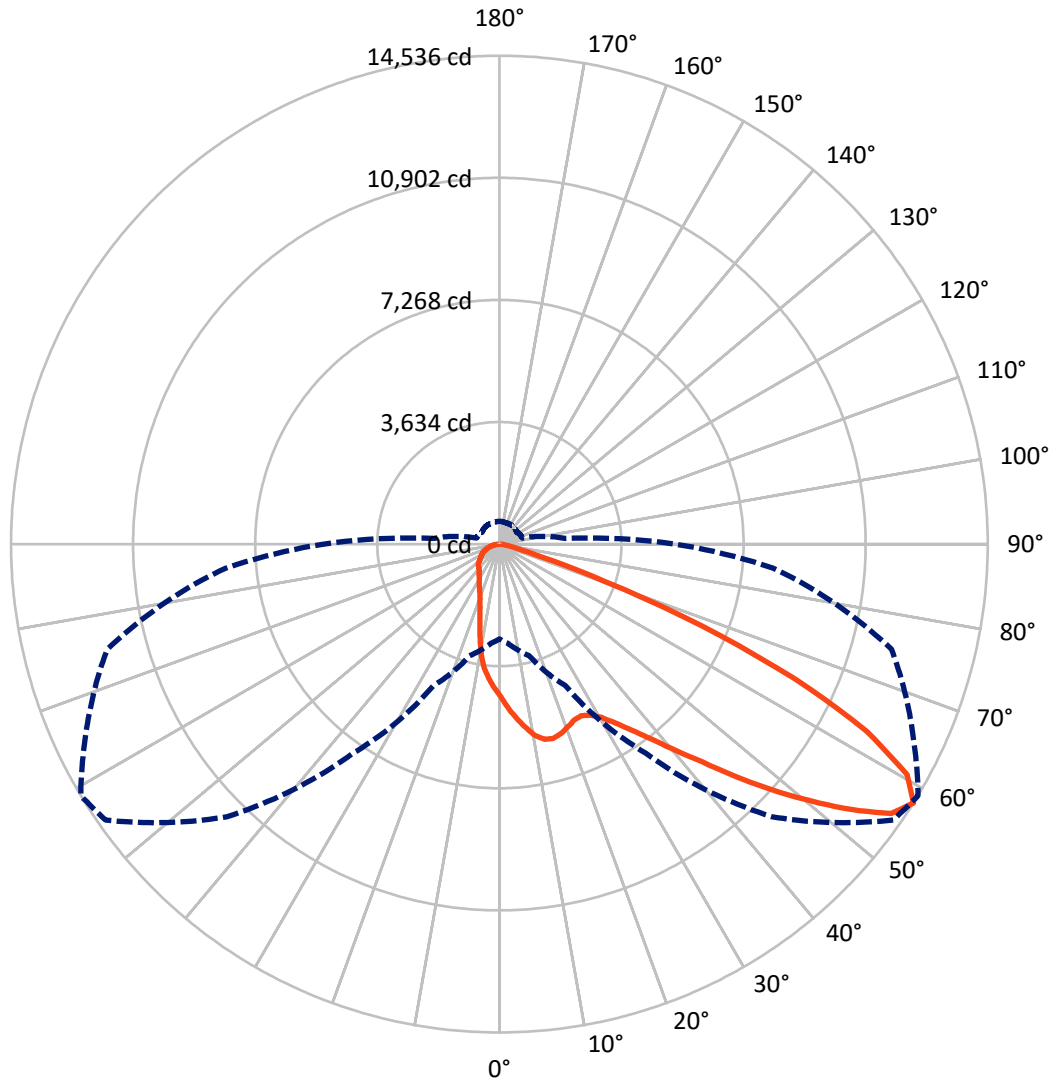
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.9 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	2870.4	0.0	2870.4
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	15625.0	0.0	15625.0
	% Fixture	84.5	0.0	84.5
Total	Lumens	18495.4	0.0	18495.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	421.6	2.3
10°-20°	1068.3	5.8
20°-30°	1731.7	9.4
30°-40°	2785.6	15.1
40°-50°	4325.8	23.4
50°-60°	4659.4	25.2
60°-70°	2704.2	14.6
70°-80°	706.0	3.8
80°-90°	93.0	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°	18495.4	100.0
0°-180°	18495.4	100.0

Coefficient of Utilization



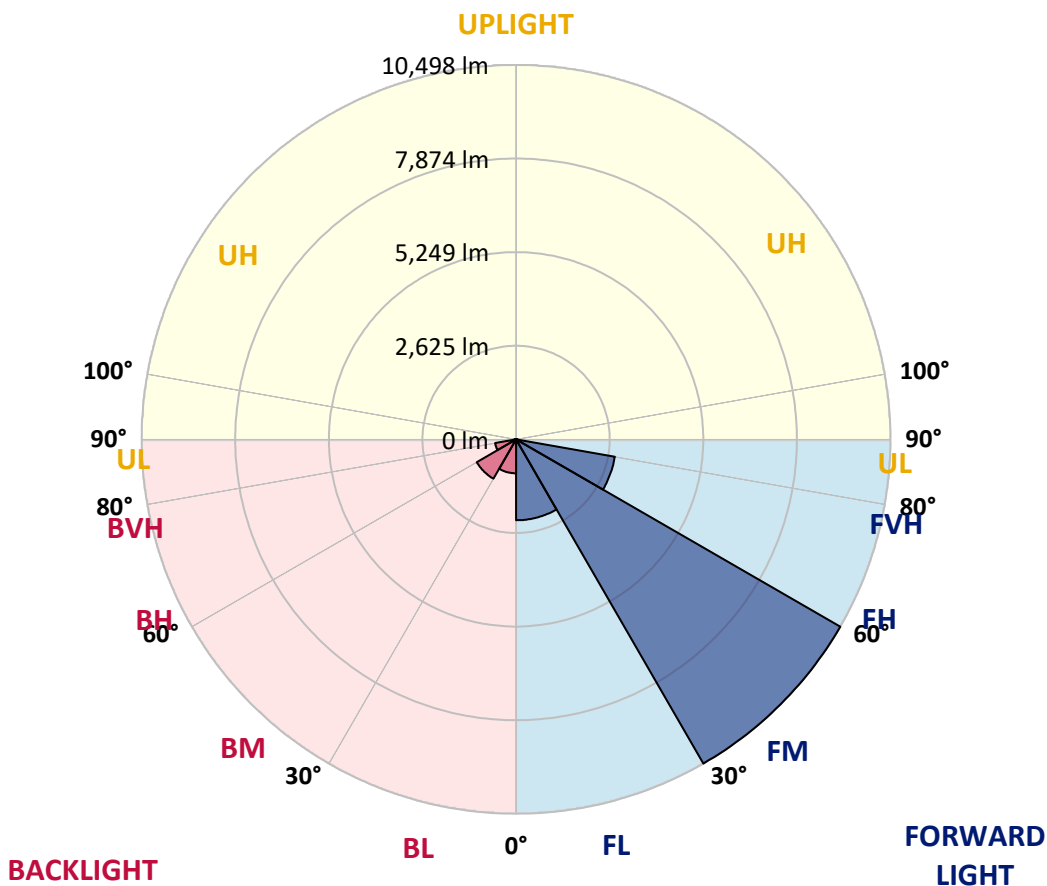
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2269.2	12.3			
FM (30°-60°)	10498.2	56.8			
FH (60°-80°)	2813.1	15.2			G2/5000
FVH (80°-90°)	44.5	0.2			G1/100
BL (0°-30°)	952.3	5.1	B2/1000		
BM (30°-60°)	1272.6	6.9	B2/2500		
BH (60°-80°)	597.0	3.2	B2/1000		G2/1000
BVH (80°-90°)	48.5	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	4540.3	4540.3	4540.3	4540.3	4540.3	4540.3	4540.3	4540.3	4540.3	4540.3	4540.3
2.5°	5149.6	5106.6	5136.6	5083.2	5061.1	5002.5	4927.0	4876.2	4798.1	4696.5	4608.0
5°	5661.3	5631.4	5637.9	5580.6	5529.8	5432.2	5277.2	5191.3	5058.5	4854.0	4663.9
7.5°	5645.7	5680.8	5700.4	5749.9	5764.2	5755.1	5615.7	5496.0	5350.1	5042.8	4756.4
10°	5061.1	5127.5	5187.4	5356.6	5562.4	5822.8	5855.3	5783.7	5636.6	5283.7	4867.1
12.5°	4424.4	4475.1	4528.5	4731.7	5046.7	5567.6	5920.4	5964.7	5906.1	5522.0	4992.1
15°	4111.9	4135.3	4186.1	4320.2	4571.5	5149.6	5807.1	6001.2	6106.6	5774.6	5132.7
17.5°	4098.9	4109.3	4134.0	4205.6	4380.1	4826.7	5602.7	5928.2	6264.2	6041.5	5296.7
20°	4368.4	4341.0	4325.4	4324.1	4410.0	4718.6	5404.8	5811.1	6338.4	6314.9	5472.5
22.5°	4742.1	4751.2	4717.3	4634.0	4623.6	4795.5	5305.9	5692.6	6360.5	6557.1	5635.3
25°	5272.0	5317.6	5217.3	5058.5	4980.3	5018.1	5367.1	5656.1	6357.9	6758.9	5736.8
27.5°	5890.5	5925.6	5824.1	5615.7	5454.3	5363.1	5549.3	5764.2	6380.0	6933.4	5798.0
30°	6594.9	6606.6	6467.3	6248.5	6012.9	5817.6	5852.7	5986.8	6493.3	7162.6	5869.6
32.5°	7455.5	7505.0	7294.1	6947.7	6618.3	6368.3	6260.3	6346.2	6738.1	7433.4	5980.3
35°	8548.0	8564.9	8296.7	7800.6	7334.5	6988.1	6761.5	6807.1	7110.5	7812.3	6147.0
37.5°	9577.9	9594.8	9309.7	8848.7	8182.1	7708.1	7380.0	7359.2	7587.0	8347.4	6419.1
40°	10231.5	10279.7	10152.1	9863.0	9226.3	8587.0	8141.7	8070.1	8212.0	9002.4	6798.0
42.5°	10583.1	10603.9	10601.3	10639.1	10260.2	9624.8	9001.1	8857.9	8952.9	9709.4	7180.8
45°	10585.7	10637.8	10777.1	11140.3	11157.3	10761.4	10087.0	9863.0	9775.8	10421.6	7580.5
47.5°	10111.7	10167.7	10550.5	11265.3	11792.7	11882.5	11387.7	10938.5	10571.3	11034.9	7908.7
50°	8676.9	8817.5	9546.6	10810.9	11917.7	12780.9	12628.6	12019.2	11278.4	11508.8	8114.4
52.5°	7430.8	7425.6	7874.8	9527.1	11395.5	13176.8	13829.1	13131.2	11977.6	11809.6	8166.5
55°	5441.3	5471.2	5930.8	7286.3	10002.4	12794.0	14489.2	14154.6	12779.6	11969.8	8145.6
57.5°	2821.5	2970.0	3441.3	4649.6	7600.1	11476.3	14313.4	14536.1	13594.7	12083.0	8173.0
60°	1425.7	1397.1	1566.4	2220.0	4403.5	8963.3	13230.1	13939.8	13741.8	12171.6	8189.9
62.5°	951.8	944.0	897.1	1028.6	1799.4	5308.5	11278.4	12273.1	12719.7	11963.2	7973.8
65°	824.2	808.6	722.6	717.4	873.7	2201.8	8266.7	9648.2	10512.8	11037.5	7456.8
67.5°	742.2	718.7	631.5	588.5	627.6	967.4	4658.7	6471.2	7762.8	9334.4	6324.1
70°	662.7	651.0	563.8	501.3	497.4	589.8	1716.1	3339.8	4749.9	6368.3	4623.6
72.5°	593.7	572.9	498.7	438.8	408.8	418.0	744.8	1286.4	2458.3	3972.6	2765.6
75°	514.3	498.7	433.6	373.7	337.2	306.0	454.4	595.0	1121.1	1888.0	1306.0
77.5°	397.1	386.7	342.4	296.9	276.0	227.9	276.0	375.0	518.2	795.6	679.7
80°	230.5	237.0	255.2	231.8	203.1	162.8	179.7	216.1	311.2	431.0	385.4
82.5°	115.9	123.7	165.4	134.1	121.1	95.0	106.8	127.6	162.8	238.3	151.0
85°	9.1	9.1	29.9	33.9	41.7	33.9	43.0	52.1	74.2	95.0	50.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	3.9	6.5	11.7	22.1	14.3
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°	4540.3	4540.3	4540.3	4540.3	4540.3	4540.3	4540.3	4540.3	4540.3	4540.3	4540.3
2.5°	4548.1	4481.7	4402.2	4337.1	4236.9	4183.5	4115.8	4032.5	3998.6	3983.0	3973.9
5°	4557.2	4440.0	4270.7	4114.5	3941.3	3804.6	3652.3	3493.4	3402.3	3380.1	3364.5
7.5°	4591.0	4427.0	4157.4	3899.6	3578.0	3279.9	2989.5	2701.8	2554.6	2498.6	2493.4
10°	4637.9	4421.8	4042.9	3614.5	3071.5	2600.2	2260.4	2035.1	1940.1	1908.8	1898.4
12.5°	4696.5	4417.9	3891.8	3218.7	2486.9	2041.6	1847.6	1811.2	1824.2	1821.6	1821.6
15°	4770.7	4423.1	3709.5	2770.8	2011.7	1772.1	1776.0	1819.0	1859.3	1865.8	1865.8
17.5°	4851.4	4417.9	3445.2	2321.6	1726.5	1708.3	1768.2	1828.1	1864.5	1869.7	1869.7
20°	4938.7	4393.1	3111.9	1898.4	1601.5	1667.9	1733.0	1779.9	1802.0	1807.2	1807.2
22.5°	4990.8	4322.8	2749.9	1606.7	1522.1	1604.1	1647.1	1695.3	1697.9	1656.2	1654.9
25°	4982.9	4191.3	2337.2	1419.2	1437.5	1509.1	1563.8	1529.9	1488.2	1464.8	1460.9
27.5°	4933.5	3993.4	1916.6	1277.3	1337.2	1417.9	1401.0	1372.4	1361.9	1335.9	1333.3
30°	4871.0	3749.9	1539.0	1166.6	1233.0	1307.3	1281.2	1278.6	1268.2	1239.6	1239.6
32.5°	4811.1	3498.6	1253.9	1084.6	1166.6	1171.8	1208.3	1210.9	1205.7	1156.2	1151.0
35°	4794.2	3247.3	1061.2	1019.5	1101.5	1098.9	1151.0	1149.7	1059.9	990.9	989.6
37.5°	4844.9	2992.1	946.6	966.1	1011.7	1045.5	1087.2	1011.7	981.7	940.1	937.5
40°	4953.0	2756.4	888.0	934.9	954.4	1003.9	938.8	944.0	936.2	904.9	901.0
42.5°	5096.2	2555.9	855.4	924.5	921.9	934.9	863.3	884.1	895.8	872.4	868.5
45°	5234.2	2381.5	838.5	885.4	898.4	822.9	808.6	828.1	846.3	837.2	833.3
47.5°	5335.8	2230.4	829.4	832.0	868.5	785.1	761.7	770.8	792.9	796.9	795.6
50°	5367.1	2101.5	819.0	787.7	779.9	747.4	729.1	726.5	752.6	770.8	773.4
52.5°	5307.2	1986.9	791.6	748.7	710.9	716.1	709.6	696.6	722.6	747.4	750.0
55°	5218.6	1921.8	748.7	710.9	666.6	687.5	690.1	678.4	695.3	712.2	712.2
57.5°	5225.1	1959.6	707.0	675.8	627.6	654.9	669.3	664.0	664.0	677.1	678.4
60°	5268.1	2014.3	679.7	631.5	588.5	617.2	649.7	644.5	632.8	649.7	649.7
62.5°	5144.4	1941.4	661.4	588.5	546.9	580.7	619.8	617.2	604.2	631.5	634.1
65°	4779.8	1746.1	640.6	535.1	505.2	544.3	578.1	587.2	575.5	612.0	618.5
67.5°	4006.4	1468.7	600.2	484.4	463.5	500.0	532.5	545.6	536.4	579.4	584.6
70°	2986.9	1188.8	536.4	428.4	412.8	445.3	475.2	480.5	481.8	532.5	537.7
72.5°	1904.9	924.5	451.8	365.9	354.2	378.9	401.0	421.9	431.0	479.2	477.9
75°	1062.5	687.5	363.3	309.9	289.1	308.6	334.6	359.4	385.4	455.7	463.5
77.5°	612.0	483.1	287.8	248.7	224.0	244.8	266.9	302.1	380.2	441.4	433.6
80°	345.0	313.8	217.4	182.3	166.7	182.3	199.2	265.6	299.5	325.5	329.4
82.5°	161.5	175.8	148.4	112.0	112.0	122.4	138.0	205.7	226.6	184.9	161.5
85°	58.6	79.4	72.9	57.3	50.8	49.5	85.9	117.2	72.9	65.1	56.0
87.5°	15.6	22.1	20.8	14.3	7.8	6.5	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)