

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P192247

Luminaire Tested: **GLEON-AF-09-LED-E1-T3-7050-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192247
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24140)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-09-LED-E1-T3-7050-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 5000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 43003 lumens
Efficiency: N/A
Efficacy: 115.0 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B4 - U0 - G5

Input Watts (W): 374
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

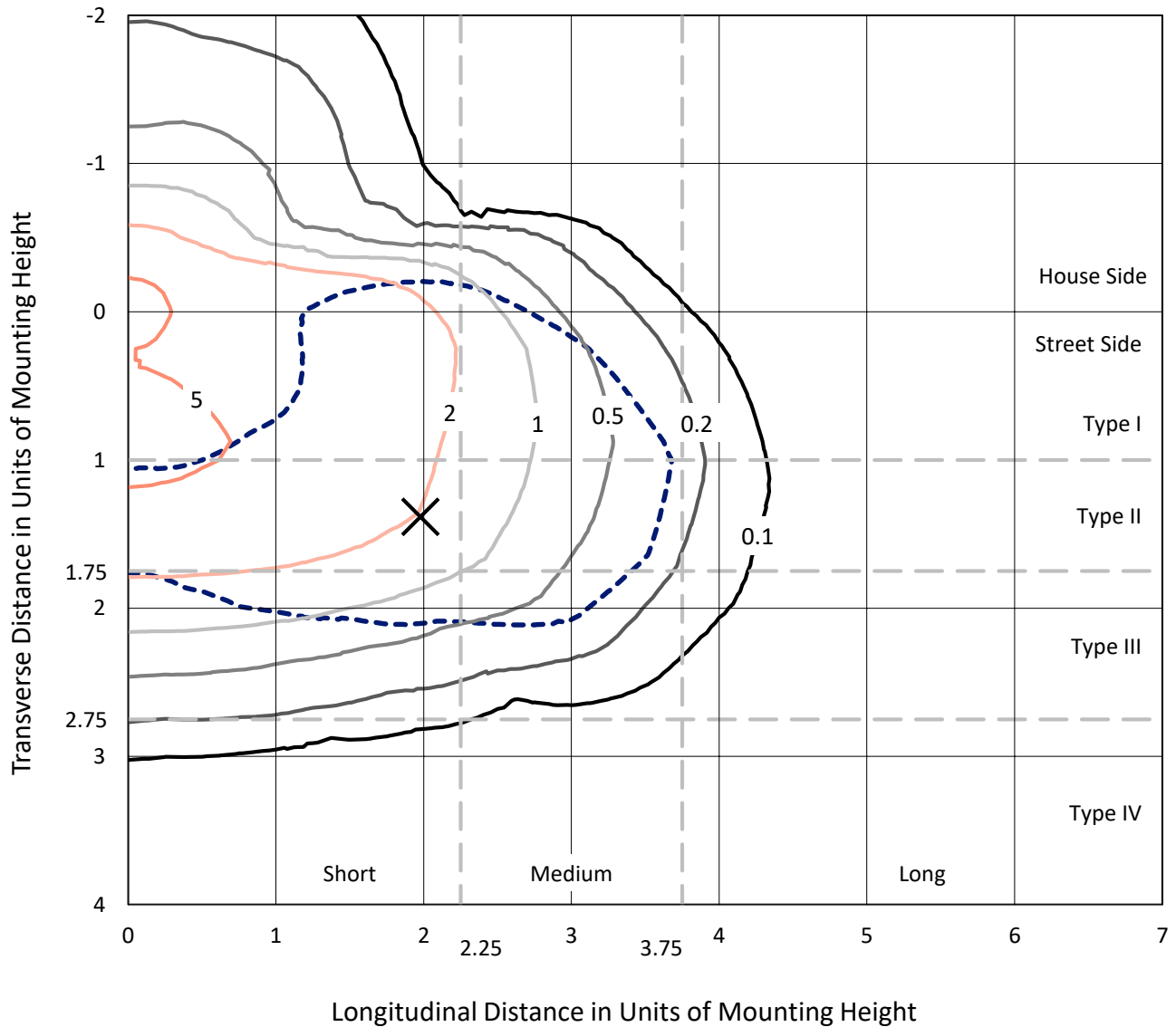


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Iso-Footcandle Lines of Horizontal Illumination

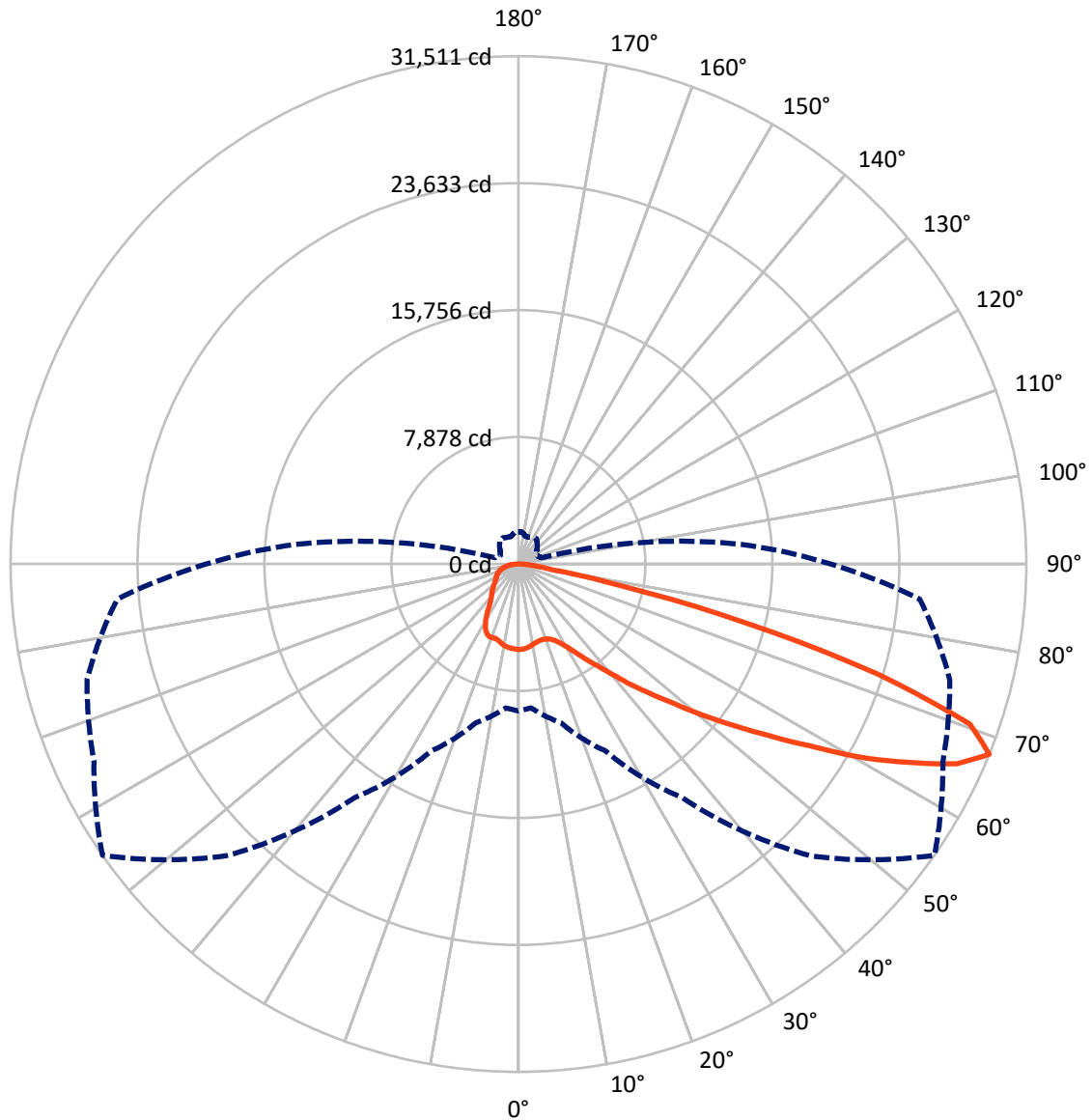
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.1 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9289.6	0.0	9289.6
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	33713.4	0.0	33713.4
	% Fixture	78.4	0.0	78.4
Total	Lumens	43003.0	0.0	43003.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	495.0	1.2
10°-20°	1401.8	3.3
20°-30°	2348.2	5.5
30°-40°	3861.4	9.0
40°-50°	6499.9	15.1
50°-60°	10230.4	23.8
60°-70°	12208.9	28.4
70°-80°	5242.7	12.2
80°-90°	714.8	1.7
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°	43003.0	100.0
0°-180°	43003.0	100.0



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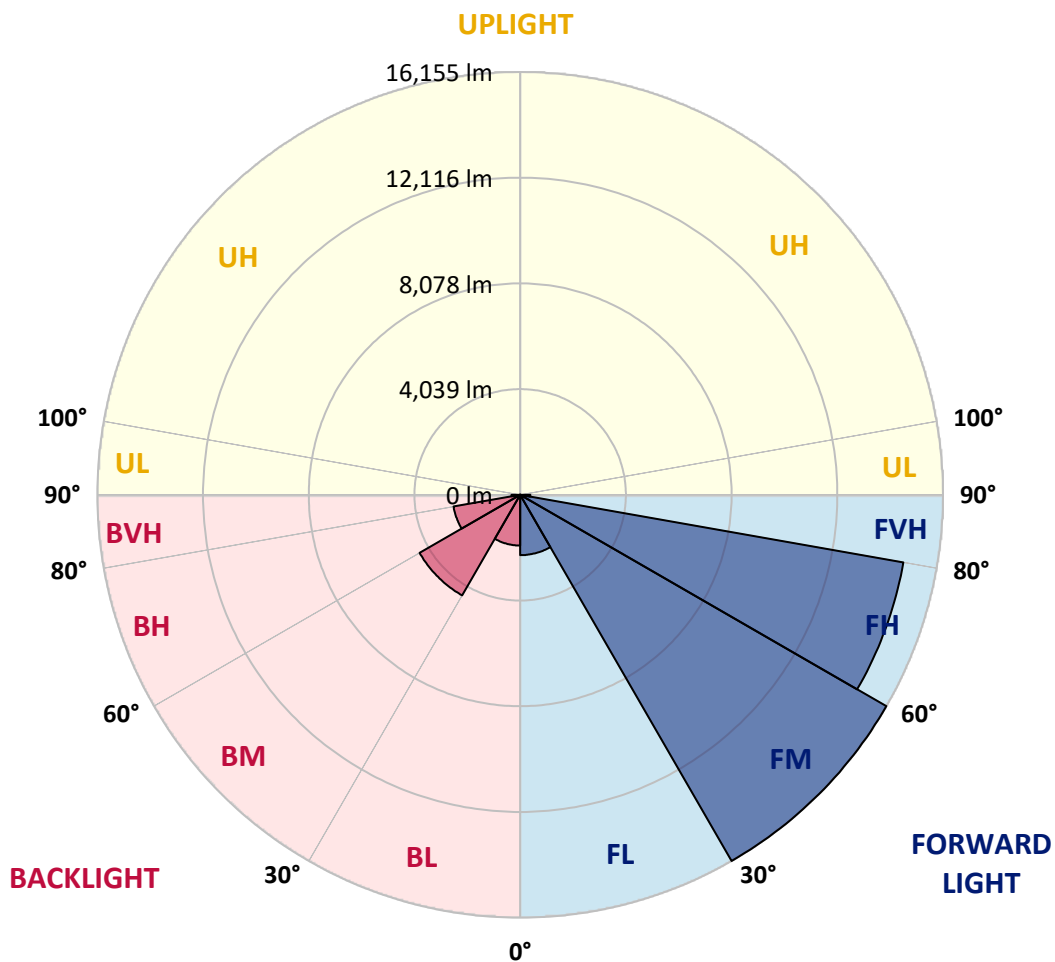
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2305.1	5.4			
FM	(30°-60°)	16155.1	37.6			
FH	(60°-80°)	14866.3	34.6			G5
FVH	(80°-90°)	386.9	0.9			G3/500
BL	(0°-30°)	1939.8	4.5	B3/2500		
BM	(30°-60°)	4436.6	10.3	B3/5000		
BH	(60°-80°)	2585.3	6.0	B4/5000		G4/5000
BVH	(80°-90°)	327.9	0.8			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5302.7	5302.7	5302.7	5302.7	5302.7	5302.7	5302.7	5302.7	5302.7	5302.7	5302.7
2.5°	5257.0	5259.1	5263.3	5279.9	5294.4	5290.3	5292.4	5284.0	5282.0	5269.5	5282.0
5°	5190.6	5196.8	5198.9	5225.9	5242.5	5246.7	5240.4	5230.0	5217.6	5205.1	5211.3
7.5°	5039.0	5055.6	5057.6	5095.0	5122.0	5157.3	5159.4	5161.5	5155.3	5147.0	5159.4
10°	4943.4	4947.6	4945.5	4972.5	4993.3	5032.7	5055.6	5095.0	5111.6	5115.8	5124.1
12.5°	4937.2	4933.0	4926.8	4926.8	4920.6	4937.2	4978.7	5034.8	5074.3	5086.7	5097.1
15°	5003.6	5001.6	4980.8	4949.6	4910.2	4897.7	4933.0	4995.3	5047.3	5074.3	5084.6
17.5°	5153.2	5140.7	5107.5	5036.9	4951.7	4918.5	4922.6	4974.6	5034.8	5070.1	5080.5
20°	5427.4	5427.4	5356.7	5223.8	5072.2	4993.3	4955.9	4987.0	5045.2	5093.0	5107.5
22.5°	5900.9	5905.1	5786.7	5568.6	5313.1	5144.9	5051.4	5045.2	5113.7	5167.7	5184.3
25°	6571.8	6555.2	6389.0	6077.5	5689.1	5410.7	5248.7	5211.3	5269.5	5329.7	5350.5
27.5°	7352.8	7292.6	7095.2	6719.3	6216.6	5809.5	5560.3	5500.1	5556.1	5624.7	5645.5
30°	8125.5	8063.2	7828.4	7417.2	6858.5	6343.3	5986.1	5888.5	5967.4	6065.0	6077.5
32.5°	8898.1	8898.1	8636.4	8156.6	7548.0	6981.0	6553.1	6436.8	6567.7	6686.1	6713.1
35°	9822.4	9826.6	9573.2	8995.8	8341.5	7741.2	7269.7	7184.6	7381.9	7465.0	7529.4
37.5°	10958.6	10981.4	10655.3	9957.4	9240.8	8609.4	8048.6	7932.3	8129.6	8356.0	8563.7
40°	12186.1	12215.2	11855.9	10996.0	10279.4	9618.9	9012.4	8802.6	9130.8	9562.8	9830.7
42.5°	13357.6	13507.1	13160.3	12275.4	11504.8	10821.5	10206.7	9901.4	10312.6	10964.8	11197.4
45°	15050.4	15158.4	14554.0	13752.2	13027.3	12263.0	11448.8	11126.8	11702.2	12524.7	12572.5
47.5°	16178.2	16097.2	15789.8	15291.3	14832.3	14117.8	12892.3	12539.2	13303.6	14271.5	14003.6
50°	16778.5	16803.4	16761.9	16791.0	16807.6	16358.9	14662.0	14178.0	15089.9	16259.2	15642.4
52.5°	17339.3	17173.1	17310.2	17991.5	18814.0	18647.9	16587.4	16082.7	17004.9	18465.1	17374.6
55°	17326.9	17073.5	17520.0	18722.6	20506.8	20697.9	18749.6	18168.1	19030.0	20830.9	19210.7
57.5°	16714.1	16726.6	17414.1	18988.5	21686.6	22625.4	21258.7	20386.4	21177.7	23227.8	20886.9
60°	15870.8	15985.1	16975.8	18944.9	22631.7	24206.1	24336.9	22777.1	23281.8	25406.6	22274.4
62.5°	14510.4	14630.8	15997.5	18492.1	22488.4	25728.6	27120.2	25489.7	25481.4	26727.6	22681.5
65°	12364.8	12329.4	13764.7	16799.3	21285.7	26854.3	29884.8	27834.7	27138.9	26748.4	21863.2
67.5°	9118.3	8960.4	10192.1	12794.7	17692.4	25593.6	31511.1	29056.0	27703.9	24989.1	19362.4
70°	4731.5	4573.7	5570.7	7471.2	11635.7	19975.1	29710.3	28424.6	26455.5	20947.2	15168.8
72.5°	2023.1	1996.1	2401.1	3277.6	5628.8	11521.5	23296.3	24602.8	22700.2	15607.0	10428.9
75°	1360.5	1352.2	1503.8	1786.3	2531.9	4675.5	14578.9	17463.9	16608.2	9677.0	5865.6
77.5°	1067.6	1057.2	1146.5	1283.6	1640.9	1844.4	6470.0	9375.9	8678.0	4212.3	2567.2
80°	835.0	826.7	882.8	957.5	1179.8	1163.2	2129.0	3730.4	2887.1	1613.9	1248.3
82.5°	658.4	658.4	704.1	706.2	837.1	793.4	1111.2	1643.0	1441.5	940.9	764.4
85°	602.3	602.3	650.1	527.6	546.3	500.6	689.6	974.1	913.9	386.3	332.3
87.5°	303.3	294.9	546.3	467.3	297.0	265.9	336.5	471.5	506.8	213.9	166.2
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5302.7	5302.7	5302.7	5302.7	5302.7	5302.7	5302.7	5302.7	5302.7	5302.7
2.5°	5277.8	5275.7	5279.9	5282.0	5298.6	5321.4	5331.8	5346.4	5354.7	5350.5
5°	5215.5	5219.7	5236.3	5248.7	5277.8	5315.2	5336.0	5352.6	5367.1	5360.9
7.5°	5163.6	5174.0	5198.9	5209.3	5225.9	5236.3	5234.2	5240.4	5252.9	5238.4
10°	5134.5	5147.0	5165.7	5151.1	5111.6	5055.6	5003.6	4976.6	4984.9	4974.6
12.5°	5105.4	5122.0	5107.5	5039.0	4928.9	4856.2	4816.7	4820.9	4839.6	4843.7
15°	5088.8	5095.0	5032.7	4903.9	4791.8	4781.4	4802.2	4798.0	4800.1	4800.1
17.5°	5088.8	5072.2	4955.9	4827.1	4779.3	4760.6	4696.2	4615.2	4579.9	4567.5
20°	5115.8	5072.2	4930.9	4845.8	4741.9	4582.0	4411.7	4262.1	4195.7	4177.0
22.5°	5196.8	5122.0	5001.6	4854.1	4559.2	4291.2	4021.2	3842.6	3722.1	3701.3
25°	5360.9	5277.8	5140.7	4744.0	4268.4	3886.2	3578.8	3379.4	3258.9	3242.3
27.5°	5647.5	5593.5	5215.5	4501.0	3882.0	3472.8	3188.3	3034.6	2945.3	2939.0
30°	6079.6	6052.6	5178.1	4141.7	3406.4	3072.0	2934.9	2845.6	2779.1	2777.0
32.5°	6769.1	6551.1	5055.6	3703.4	2972.3	2787.4	2731.3	2677.3	2625.4	2625.4
35°	7656.1	6954.0	4822.9	3234.0	2708.5	2629.6	2558.9	2473.8	2405.2	2401.1
37.5°	8698.7	7203.3	4405.4	2856.0	2583.9	2523.6	2419.8	2293.1	2172.6	2151.8
40°	9751.8	7278.0	3817.6	2623.3	2504.9	2417.7	2291.0	2141.5	2025.1	2018.9
42.5°	10717.6	7134.7	3194.5	2463.4	2426.0	2309.7	2176.8	2043.8	1952.4	1950.4
45°	11527.7	6762.9	2671.1	2311.8	2342.9	2212.1	2093.7	1985.7	1915.1	1900.5
47.5°	12290.0	6237.4	2303.5	2151.8	2259.8	2158.1	2058.4	1956.6	1888.0	1877.7
50°	13174.8	5670.4	2045.9	1996.1	2187.1	2139.4	2087.4	1981.5	1867.3	1854.8
52.5°	14246.6	5180.2	1844.4	1859.0	2131.1	2164.3	2162.2	2052.1	1852.7	1836.1
55°	15443.0	4636.0	1692.8	1746.8	2108.2	2210.0	2180.9	2118.6	1865.2	1840.3
57.5°	16620.7	4000.4	1586.9	1661.6	2075.0	2205.8	2091.6	2002.3	1894.3	1859.0
60°	17503.4	3146.7	1505.9	1586.9	2002.3	2137.3	1994.0	1875.6	1888.0	1861.0
62.5°	17561.6	2432.2	1408.2	1522.5	1892.2	2068.8	1929.6	1819.5	1915.1	1890.1
65°	16529.3	1838.2	1314.8	1445.6	1773.8	2025.1	1867.3	1788.4	1971.1	1944.1
67.5°	13916.3	1478.9	1235.9	1366.7	1655.4	1933.7	1811.2	1759.3	2021.0	1973.2
70°	10046.7	1260.8	1159.0	1271.2	1549.5	1829.9	1761.3	1707.3	1886.0	1811.2
72.5°	6185.5	1092.5	1071.8	1144.5	1468.5	1721.9	1686.6	1609.7	1699.0	1638.8
75°	3088.6	947.1	974.1	1019.8	1354.2	1599.3	1562.0	1485.1	1497.6	1485.1
77.5°	1478.9	810.1	859.9	895.2	1206.8	1460.2	1420.7	1341.8	1327.2	1329.3
80°	936.8	677.1	724.9	749.8	1078.0	1298.2	1258.7	1179.8	1345.9	1248.3
82.5°	585.7	550.4	562.9	608.6	938.8	1129.9	1078.0	1007.4	1213.0	959.6
85°	324.0	384.3	400.9	440.3	722.8	945.1	893.1	803.8	720.7	708.3
87.5°	193.2	228.5	234.7	263.8	486.0	683.4	604.4	573.3	475.6	473.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)