

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: P192246

Luminaire Tested: **GLEON-AF-08-LED-E1-T3-7050-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192246
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-08-LED-E1-T3-7050-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 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: 38551 lumens
Efficiency: N/A
Efficacy: 115.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B3 - U0 - G5

Input Watts (W): 334
Input Voltage (V): NR
Input Current (Ain): 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

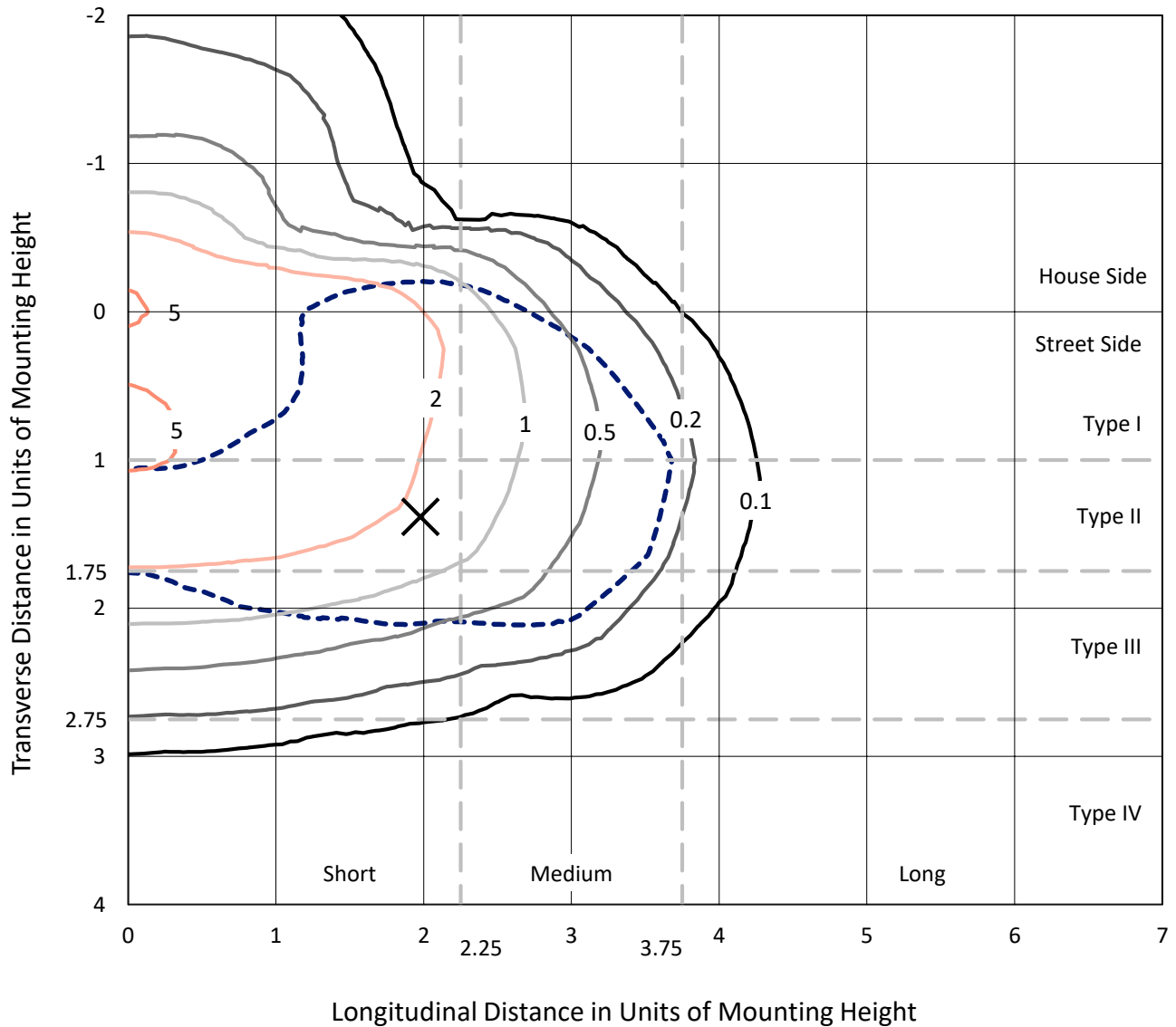


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

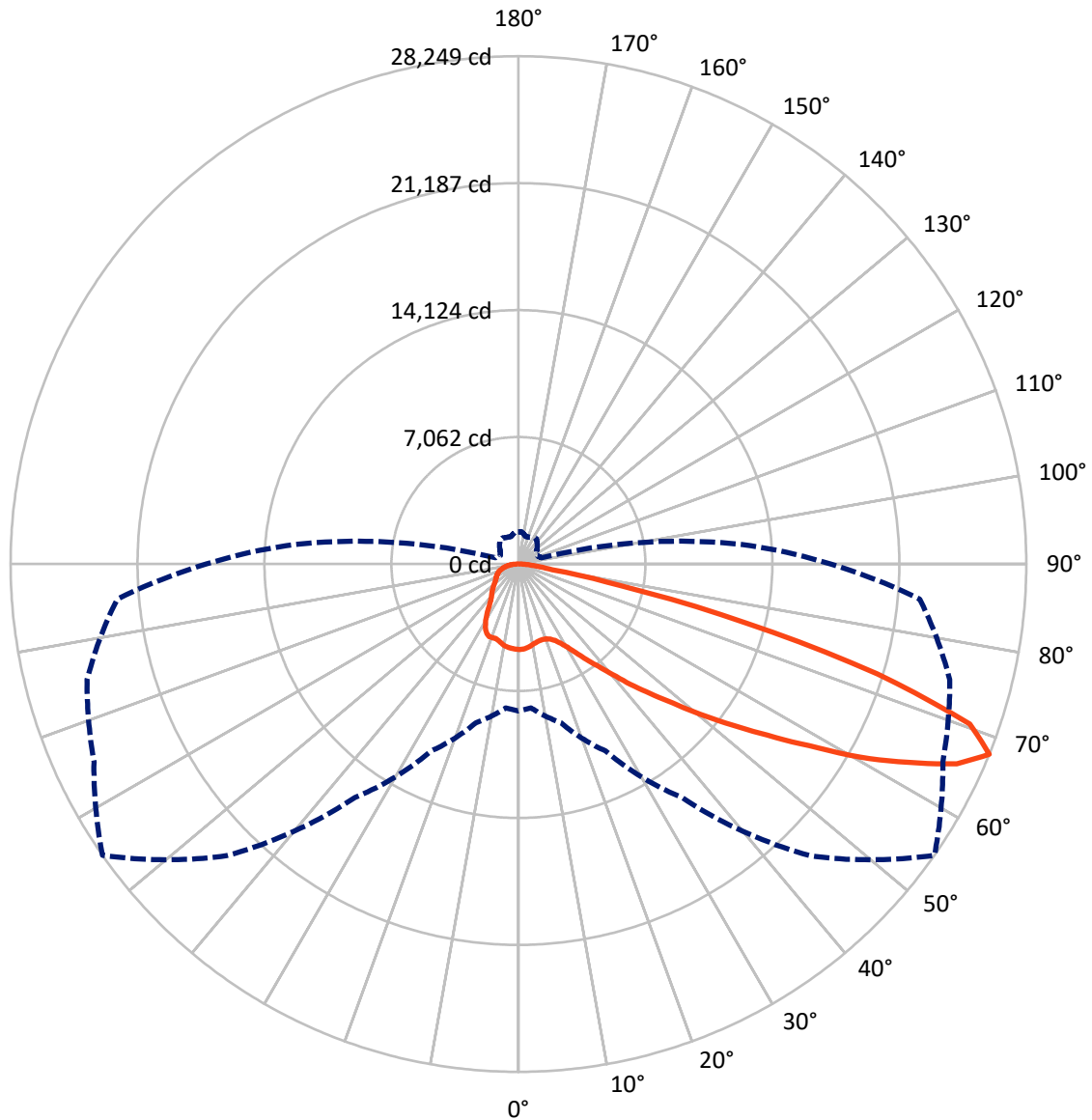


Based on 30 foot mounting height. Maximum calculated value = 5.4 fc
 Type III - Short - Full Cutoff

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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	8327.8	0.0	8327.8
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	30223.2	0.0	30223.2
	% Fixture	78.4	0.0	78.4
Total	Lumens	38551.0	0.0	38551.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	443.7	1.2
10°-20°	1256.7	3.3
20°-30°	2105.1	5.5
30°-40°	3461.6	9.0
40°-50°	5827.0	15.1
50°-60°	9171.3	23.8
60°-70°	10944.9	28.4
70°-80°	4700.0	12.2
80°-90°	640.8	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°	38551.0	100.0
0°-180°	38551.0	100.0



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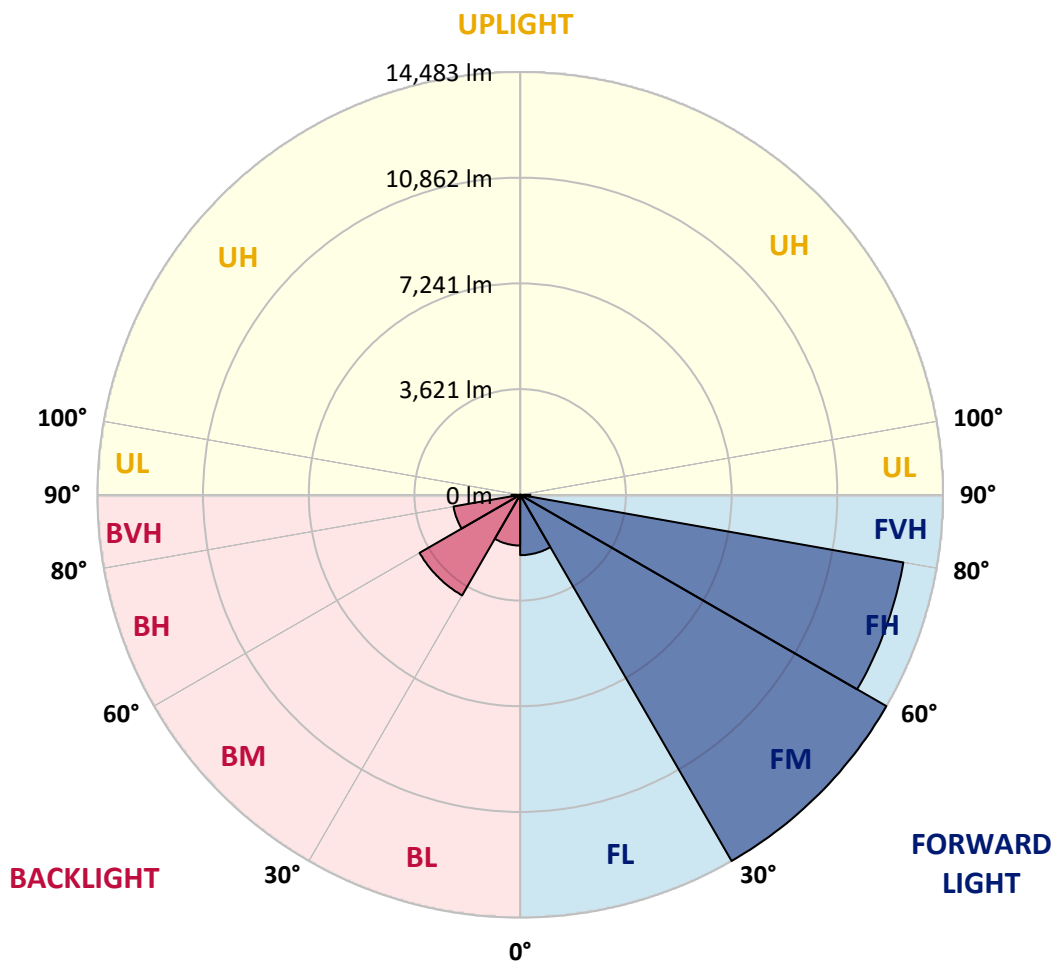
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2066.4	5.4			
FM (30°-60°)	14482.6	37.6			
FH (60°-80°)	13327.3	34.6			G5
FVH (80°-90°)	346.9	0.9			G3/500
BL (0°-30°)	1739.0	4.5	B3/2500		
BM (30°-60°)	3977.3	10.3	B3/5000		
BH (60°-80°)	2317.6	6.0	B3/2500		G3/2500
BVH (80°-90°)	293.9	0.8			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4753.8	4753.8	4753.8	4753.8	4753.8	4753.8	4753.8	4753.8	4753.8	4753.8	4753.8
2.5°	4712.8	4714.7	4718.4	4733.3	4746.3	4742.6	4744.4	4737.0	4735.1	4724.0	4735.1
5°	4653.2	4658.8	4660.7	4684.9	4699.8	4703.5	4697.9	4688.6	4677.4	4666.2	4671.8
7.5°	4517.3	4532.2	4534.0	4567.6	4591.8	4623.4	4625.3	4627.1	4621.6	4614.1	4625.3
10°	4431.6	4435.4	4433.5	4457.7	4476.3	4511.7	4532.2	4567.6	4582.5	4586.2	4593.6
12.5°	4426.0	4422.3	4416.7	4416.7	4411.1	4426.0	4463.3	4513.6	4548.9	4560.1	4569.4
15°	4485.6	4483.8	4465.1	4437.2	4401.8	4390.7	4422.3	4478.2	4524.7	4548.9	4558.2
17.5°	4619.7	4608.5	4578.7	4515.4	4439.1	4409.3	4413.0	4459.6	4513.6	4545.2	4554.5
20°	4865.5	4865.5	4802.2	4683.0	4547.1	4476.3	4442.8	4470.7	4522.9	4565.7	4578.7
22.5°	5290.0	5293.7	5187.6	4992.1	4763.1	4612.2	4528.5	4522.9	4584.3	4632.7	4647.6
25°	5891.5	5876.6	5727.6	5448.3	5100.1	4850.6	4705.3	4671.8	4724.0	4778.0	4796.6
27.5°	6591.6	6537.6	6360.7	6023.7	5573.1	5208.1	4984.7	4930.7	4980.9	5042.4	5061.0
30°	7284.3	7228.4	7018.0	6649.3	6148.4	5686.6	5366.4	5278.9	5349.6	5437.1	5448.3
32.5°	7976.9	7976.9	7742.3	7312.2	6766.6	6258.3	5874.7	5770.4	5887.7	5993.9	6018.1
35°	8805.5	8809.3	8582.1	8064.4	7477.9	6939.8	6517.1	6440.8	6617.7	6692.1	6749.9
37.5°	9824.1	9844.5	9552.2	8926.6	8284.2	7718.1	7215.4	7111.1	7288.0	7490.9	7677.1
40°	10924.5	10950.6	10628.5	9857.6	9215.2	8623.1	8079.3	7891.3	8185.5	8572.8	8813.0
42.5°	11974.7	12108.8	11797.8	11004.6	10313.8	9701.2	9150.0	8876.3	9245.0	9829.6	10038.2
45°	13492.3	13589.1	13047.2	12328.5	11678.6	10993.4	10263.5	9974.9	10490.7	11228.0	11270.9
47.5°	14503.3	14430.7	14155.1	13708.3	13296.7	12656.2	11557.6	11241.1	11926.3	12794.0	12553.8
50°	15041.5	15063.8	15026.6	15052.6	15067.5	14665.3	13144.1	12710.2	13527.6	14576.0	14022.9
52.5°	15544.2	15395.3	15518.1	16128.9	16866.3	16717.3	14870.2	14417.7	15244.4	16553.4	15575.9
55°	15533.0	15305.9	15706.2	16784.3	18383.8	18555.1	16808.5	16287.2	17059.9	18674.3	17221.9
57.5°	14983.7	14994.9	15611.2	17022.7	19441.4	20283.1	19057.9	18275.8	18985.2	20823.1	18724.6
60°	14227.8	14330.2	15218.4	16983.6	20288.7	21700.1	21817.4	20419.0	20871.5	22776.3	19968.4
62.5°	13008.1	13116.1	14341.3	16577.6	20160.2	23065.0	24312.5	22850.8	22843.4	23960.6	20333.4
65°	11084.7	11053.0	12339.7	15060.1	19082.1	24074.2	26790.9	24953.0	24329.3	23979.2	19599.7
67.5°	8174.3	8032.8	9137.0	11470.1	15860.8	22943.9	28248.8	26047.9	24835.7	22402.1	17357.8
70°	4241.7	4100.2	4994.0	6697.7	10431.1	17907.1	26634.5	25481.9	23716.7	18778.6	13598.4
72.5°	1813.6	1789.4	2152.5	2938.3	5046.1	10328.7	20884.5	22055.7	20350.1	13991.3	9349.2
75°	1219.6	1212.2	1348.1	1601.3	2269.8	4191.4	13069.6	15655.9	14888.8	8675.2	5258.4
77.5°	957.1	947.8	1027.8	1150.7	1471.0	1653.5	5800.2	8405.2	7779.6	3776.2	2301.5
80°	748.5	741.1	791.4	858.4	1057.6	1042.7	1908.6	3344.2	2588.2	1446.8	1119.1
82.5°	590.3	590.3	631.2	633.1	750.4	711.3	996.2	1472.9	1292.2	843.5	685.2
85°	540.0	540.0	582.8	473.0	489.7	448.7	618.2	873.3	819.3	346.3	297.9
87.5°	271.9	264.4	489.7	419.0	266.3	238.3	301.6	422.7	454.3	191.8	149.0
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4753.8	4753.8	4753.8	4753.8	4753.8	4753.8	4753.8	4753.8	4753.8	4753.8
2.5°	4731.4	4729.6	4733.3	4735.1	4750.0	4770.5	4779.8	4792.9	4800.3	4796.6
5°	4675.6	4679.3	4694.2	4705.3	4731.4	4764.9	4783.6	4798.4	4811.5	4805.9
7.5°	4629.0	4638.3	4660.7	4670.0	4684.9	4694.2	4692.3	4697.9	4709.1	4696.0
10°	4602.9	4614.1	4630.9	4617.8	4582.5	4532.2	4485.6	4461.4	4468.9	4459.6
12.5°	4576.9	4591.8	4578.7	4517.3	4418.6	4353.4	4318.0	4321.8	4338.5	4342.3
15°	4562.0	4567.6	4511.7	4396.2	4295.7	4286.4	4305.0	4301.3	4303.1	4303.1
17.5°	4562.0	4547.1	4442.8	4327.4	4284.5	4267.8	4210.0	4137.4	4105.8	4094.6
20°	4586.2	4547.1	4420.5	4344.1	4251.0	4107.6	3954.9	3820.9	3761.3	3744.5
22.5°	4658.8	4591.8	4483.8	4351.6	4087.2	3847.0	3604.9	3444.8	3336.8	3318.1
25°	4805.9	4731.4	4608.5	4252.9	3826.5	3483.9	3208.3	3029.5	2921.5	2906.6
27.5°	5062.9	5014.4	4675.6	4035.0	3480.1	3113.3	2858.2	2720.4	2640.4	2634.8
30°	5450.2	5426.0	4642.0	3712.9	3053.7	2753.9	2631.0	2551.0	2491.4	2489.5
32.5°	6068.4	5872.8	4532.2	3320.0	2664.6	2498.8	2448.6	2400.2	2353.6	2353.6
35°	6863.4	6234.1	4323.6	2899.2	2428.1	2357.3	2294.0	2217.7	2156.2	2152.5
37.5°	7798.2	6457.5	3949.4	2560.3	2316.4	2262.4	2169.3	2055.7	1947.7	1929.1
40°	8742.2	6524.5	3422.4	2351.7	2245.6	2167.4	2053.8	1919.8	1815.5	1809.9
42.5°	9608.1	6396.1	2863.8	2208.4	2174.8	2070.6	1951.4	1832.2	1750.3	1748.4
45°	10334.3	6062.8	2394.6	2072.4	2100.4	1983.1	1876.9	1780.1	1716.8	1703.8
47.5°	11017.6	5591.7	2065.0	1929.1	2025.9	1934.6	1845.3	1754.0	1692.6	1683.3
50°	11810.8	5083.3	1834.1	1789.4	1960.7	1917.9	1871.3	1776.4	1674.0	1662.8
52.5°	12771.7	4643.9	1653.5	1666.5	1910.4	1940.2	1938.4	1839.7	1660.9	1646.0
55°	13844.2	4156.0	1517.6	1566.0	1890.0	1981.2	1955.1	1899.3	1672.1	1649.8
57.5°	14900.0	3586.3	1422.6	1489.6	1860.2	1977.5	1875.1	1795.0	1698.2	1666.5
60°	15691.3	2821.0	1350.0	1422.6	1795.0	1916.0	1787.5	1681.4	1692.6	1668.4
62.5°	15743.5	2180.4	1262.5	1364.9	1696.3	1854.6	1729.8	1631.1	1716.8	1694.4
65°	14818.0	1647.9	1178.7	1296.0	1590.2	1815.5	1674.0	1603.2	1767.1	1742.9
67.5°	12475.6	1325.8	1107.9	1225.2	1484.0	1733.5	1623.7	1577.1	1811.8	1768.9
70°	9006.6	1130.3	1039.0	1139.6	1389.1	1640.4	1579.0	1530.6	1690.7	1623.7
72.5°	5545.1	979.4	960.8	1026.0	1316.5	1543.6	1512.0	1443.1	1523.1	1469.1
75°	2768.8	849.1	873.3	914.3	1214.0	1433.8	1400.2	1331.4	1342.5	1331.4
77.5°	1325.8	726.2	770.9	802.5	1081.8	1309.0	1273.6	1202.9	1189.8	1191.7
80°	839.8	607.0	649.8	672.2	966.4	1163.8	1128.4	1057.6	1206.6	1119.1
82.5°	525.1	493.4	504.6	545.6	841.6	1012.9	966.4	903.1	1087.4	860.3
85°	290.5	344.5	359.4	394.8	648.0	847.2	800.7	720.6	646.1	635.0
87.5°	173.2	204.8	210.4	236.5	435.7	612.6	541.9	513.9	426.4	424.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)