

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: P194018

Luminaire Tested: **GLEON-AF-10-LED-E1-T3R-8030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194018
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P40129)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-10-LED-E1-T3R-8030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32386 lumens
Efficiency: N/A
Efficacy: 100.3 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B3 - U0 - G4

Input Watts (W): 323
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

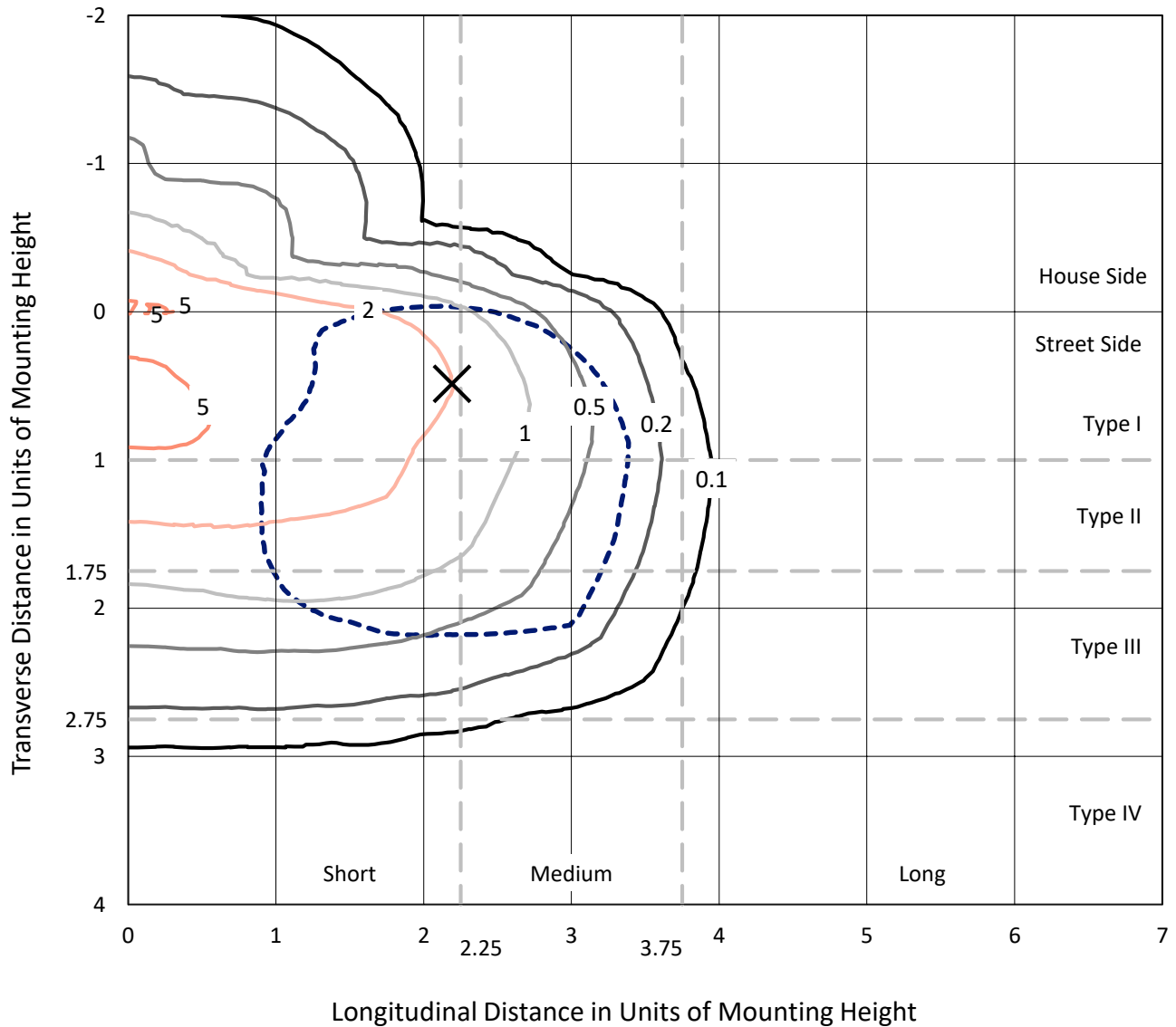


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Iso-Footcandle Lines of Horizontal Illumination

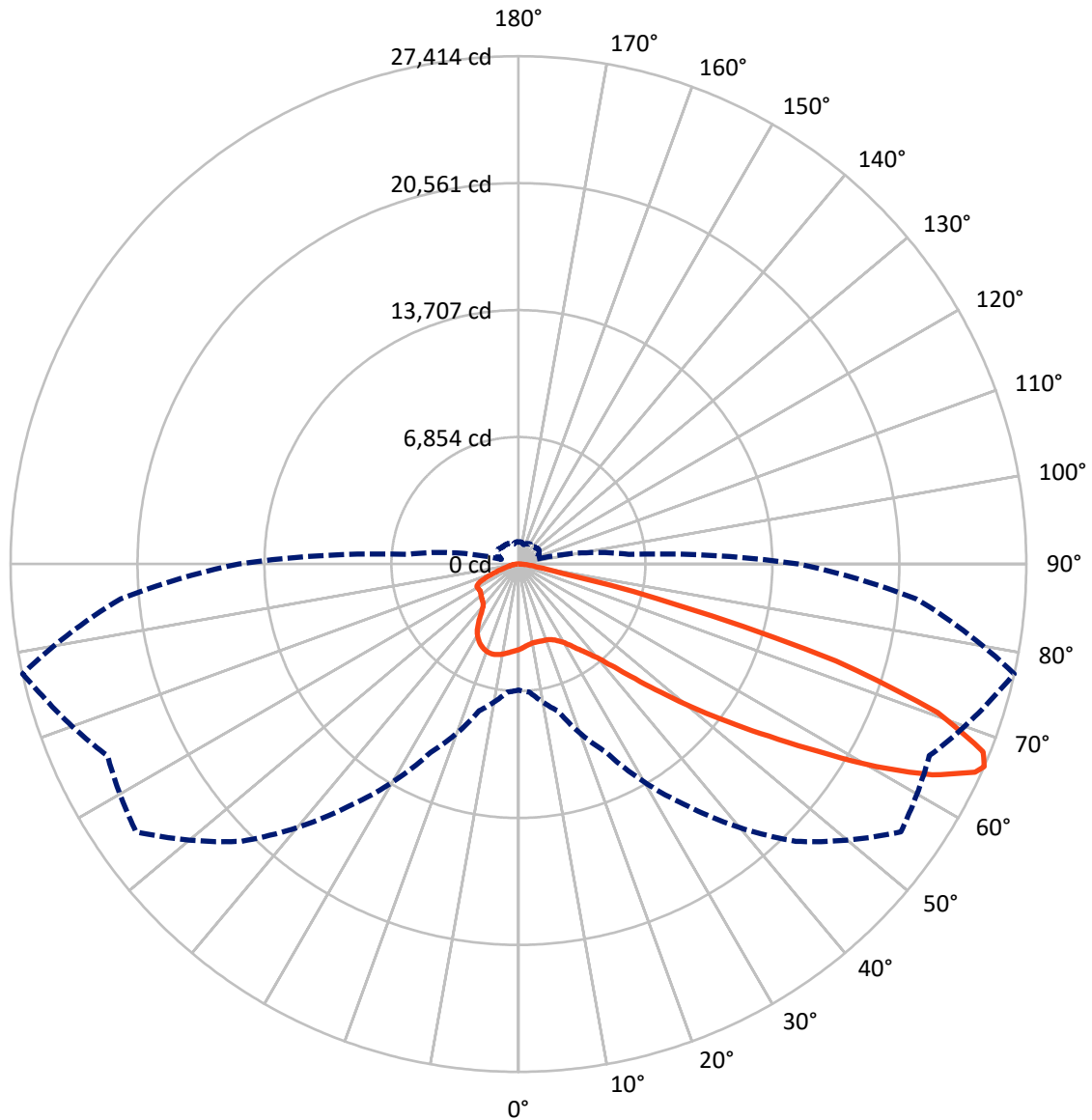
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.3 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 77.5-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5532.9	0.0	5532.9
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	26853.1	0.0	26853.1
	% Fixture	82.9	0.0	82.9
Total	Lumens	32386.0	0.0	32386.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	412.3	1.3
10°-20°	1163.2	3.6
20°-30°	1985.3	6.1
30°-40°	3178.0	9.8
40°-50°	4909.8	15.2
50°-60°	6963.7	21.5
60°-70°	9315.6	28.8
70°-80°	4045.6	12.5
80°-90°	412.5	1.3
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°	32386.0	100.0
0°-180°	32386.0	100.0



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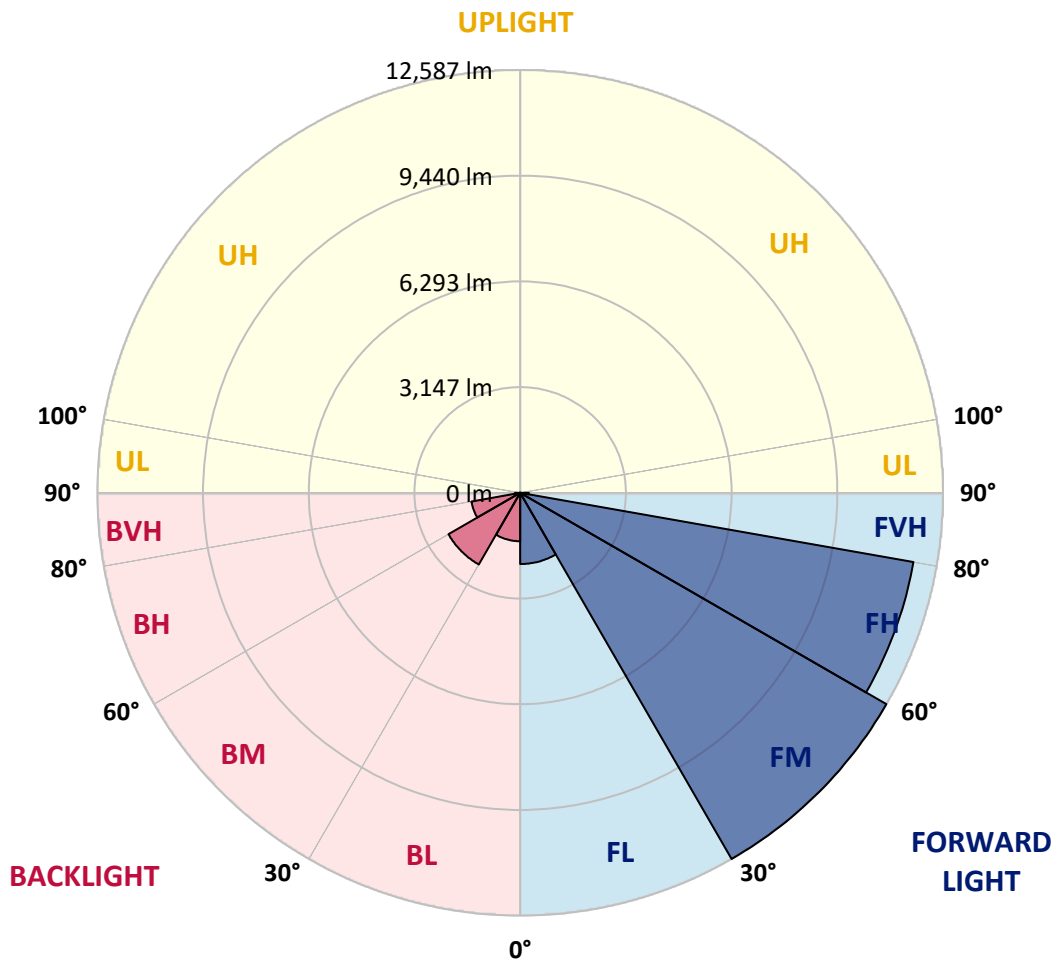
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2119.8	6.5			
FM	(30°-60°)	12586.9	38.9			
FH	(60°-80°)	11887.6	36.7			G4/12000
FVH	(80°-90°)	258.7	0.8			G3/500
BL	(0°-30°)	1441.0	4.4	B3/2500		
BM	(30°-60°)	2464.6	7.6	B2/2500		
BH	(60°-80°)	1473.5	4.5	B3/2500		G3/2500
BVH	(80°-90°)	153.8	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77.5°	85°
0°	4615.2	4615.2	4615.2	4615.2	4615.2	4615.2	4615.2	4615.2	4615.2	4615.2	4615.2
2.5°	4082.6	4110.2	4133.1	4154.6	4197.4	4267.8	4348.9	4414.7	4509.6	4527.9	4578.4
5°	3707.7	3707.7	3726.1	3758.2	3816.4	3922.0	4032.1	4179.0	4385.6	4434.6	4569.3
7.5°	3525.6	3527.2	3537.9	3565.4	3615.9	3712.3	3833.2	4006.1	4286.2	4367.3	4596.8
10°	3593.0	3577.7	3554.7	3540.9	3548.6	3605.2	3720.0	3912.8	4225.0	4329.0	4658.0
12.5°	3969.4	3940.3	3860.8	3755.2	3654.2	3612.9	3680.2	3868.4	4198.9	4319.8	4739.1
15°	4584.6	4572.3	4423.9	4205.1	3960.2	3755.2	3709.3	3851.6	4202.0	4330.5	4835.5
17.5°	5355.8	5339.0	5143.1	4824.8	4425.4	4026.0	3811.8	3865.3	4212.7	4348.9	4928.9
20°	6134.7	6082.6	5871.5	5492.0	4979.4	4394.8	3981.6	3900.5	4226.5	4368.8	5026.8
22.5°	6716.2	6673.3	6483.6	6114.8	5524.1	4821.7	4209.6	3961.8	4270.9	4426.9	5147.7
25°	7227.3	7230.3	7042.1	6685.6	6075.0	5274.7	4503.5	4125.5	4384.1	4546.3	5312.9
27.5°	7859.2	7822.5	7646.5	7293.1	6619.8	5732.2	4858.5	4350.4	4552.4	4716.2	5530.2
30°	8615.2	8589.2	8385.6	7984.7	7224.2	6223.4	5264.0	4612.1	4769.7	4939.6	5814.9
32.5°	9504.2	9492.0	9280.8	8765.1	7922.0	6801.9	5739.9	4957.9	5094.1	5270.1	6223.4
35°	10547.8	10549.4	10299.9	9680.2	8685.6	7475.1	6280.0	5403.2	5488.9	5672.5	6710.0
37.5°	11190.5	11268.6	11175.2	10543.3	9550.1	8228.0	6980.9	5993.9	5938.8	6124.0	7231.8
40°	11328.3	11423.1	11718.5	11397.1	10517.2	9057.4	7602.2	6561.6	6492.7	6719.2	7903.6
42.5°	11135.4	11267.0	11891.4	12117.9	11544.0	10079.6	8437.7	7404.8	7317.5	7622.1	8739.1
45°	11020.7	11118.6	11840.9	12492.8	12434.6	11234.9	9501.2	8463.7	8431.5	8830.9	9703.2
47.5°	10821.8	10910.5	11605.2	12580.0	12957.9	12293.8	10778.9	9758.2	9821.0	10344.3	10791.1
50°	10928.9	10965.6	11342.0	12358.1	13109.4	13069.7	12206.6	11257.9	11472.1	12125.5	12023.0
52.5°	10913.6	11008.4	11311.4	11993.9	13129.3	13548.6	13612.9	12930.4	13381.8	14131.6	13389.5
55°	8823.3	8997.7	10951.8	11902.1	13199.7	14018.4	14864.6	14693.2	15534.8	16408.6	14931.9
57.5°	8425.4	8535.6	9619.0	12094.9	13573.1	14915.1	16257.1	16633.5	18041.4	19055.9	16811.1
60°	8347.4	8483.6	9605.2	12330.6	14330.6	16376.5	18321.4	18982.4	21091.1	22202.0	18990.1
62.5°	8104.1	8251.0	9514.9	12299.9	15406.3	18397.9	20964.1	21479.8	23983.2	25063.6	20812.6
65°	7332.8	7470.6	8778.9	11805.7	16131.6	20555.5	24091.9	23769.0	26266.3	27078.9	21721.5
66°	6804.9	6939.6	8198.9	11224.2	15963.3	21167.6	25199.7	24477.5	26777.4	27414.0	21544.0
67.5°	5839.3	5944.9	7072.7	9922.0	15068.1	21339.0	26131.7	25010.0	26831.0	27055.9	20529.5
70°	3689.4	3720.0	4596.8	6849.3	11406.3	18506.5	24713.1	23687.9	24618.3	24009.2	17210.4
72.5°	1600.6	1589.9	2206.6	3484.3	6457.5	12417.8	19990.9	19545.6	19311.4	17922.0	12047.5
75°	890.6	902.8	1146.1	1617.4	2624.3	6099.5	13077.3	12514.2	10566.2	9016.1	5462.9
77.5°	714.6	731.4	950.3	1147.7	1178.3	2127.0	6119.4	4979.4	2997.7	2405.5	1518.0
80°	564.7	595.3	829.4	893.7	794.2	876.8	1977.1	1580.7	1185.9	1088.0	786.5
82.5°	446.8	468.2	711.6	676.4	555.5	590.7	947.2	922.7	771.2	702.4	454.5
85°	321.3	361.1	584.5	509.6	364.2	397.9	628.9	602.9	442.2	361.1	200.5
87.5°	131.6	171.4	413.2	338.2	203.5	185.2	313.7	295.3	209.6	153.0	99.5
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°	4615.2	4615.2	4615.2	4615.2	4615.2	4615.2	4615.2	4615.2	4615.2	4615.2	4615.2
2.5°	4610.6	4647.3	4694.7	4723.8	4739.1	4749.8	4766.7	4765.1	4769.7	4771.2	4777.4
5°	4641.2	4702.4	4771.2	4789.6	4789.6	4772.8	4755.9	4728.4	4717.7	4714.6	4717.7
7.5°	4720.7	4788.1	4847.8	4826.3	4780.4	4713.1	4625.9	4549.4	4508.0	4494.3	4491.2
10°	4821.7	4902.8	4927.3	4846.2	4711.6	4549.4	4376.4	4251.0	4179.0	4159.2	4153.0
12.5°	4944.2	5020.7	4987.0	4815.6	4566.2	4304.5	4065.8	3865.3	3715.4	3667.9	3664.9
15°	5078.8	5138.5	5020.7	4720.7	4348.9	3963.3	3537.9	3192.0	3005.4	2945.7	2941.1
17.5°	5204.3	5234.9	5000.8	4555.5	4029.1	3404.8	2840.1	2573.8	2509.6	2524.9	2527.9
20°	5311.4	5311.4	4933.4	4318.3	3525.6	2668.7	2312.2	2307.6	2353.5	2399.4	2408.6
22.5°	5429.2	5358.8	4815.6	3983.2	2812.6	2183.6	2131.6	2174.4	2226.5	2277.0	2284.6
25°	5574.6	5397.1	4651.9	3475.1	2211.2	1983.2	2003.1	2038.3	2064.3	2096.4	2101.0
27.5°	5736.8	5446.1	4436.1	2775.8	1918.9	1857.7	1873.0	1885.2	1882.2	1894.4	1897.5
30°	5931.2	5502.7	4140.8	2169.9	1798.0	1750.6	1723.0	1712.3	1712.3	1732.2	1739.9
32.5°	6191.3	5586.9	3716.9	1859.2	1739.9	1674.1	1585.3	1545.5	1560.8	1628.2	1643.5
35°	6477.4	5677.1	3143.1	1753.6	1727.6	1638.9	1501.2	1427.7	1429.2	1492.0	1511.9
37.5°	6789.6	5791.9	2514.2	1733.7	1755.2	1640.4	1456.8	1355.8	1314.5	1314.5	1322.1
40°	7189.0	5909.7	2035.2	1747.5	1813.3	1658.8	1433.8	1299.2	1182.9	1185.9	1192.0
42.5°	7709.3	6010.7	1778.1	1776.6	1883.7	1683.2	1432.3	1224.2	1123.2	1192.0	1254.8
45°	8287.7	6061.2	1664.9	1802.6	1940.3	1698.5	1407.8	1211.9	1130.8	1335.9	1455.2
47.5°	8953.3	6032.1	1602.1	1811.8	1954.1	1698.5	1380.3	1241.0	1184.4	1547.1	1686.3
50°	9683.3	5948.0	1540.9	1793.4	1949.5	1695.5	1406.3	1270.1	1204.3	1583.8	1680.2
52.5°	10541.7	5877.6	1476.7	1753.6	1917.4	1678.7	1436.9	1257.8	1141.5	1439.9	1507.3
55°	11521.1	5897.5	1404.7	1697.0	1866.9	1646.5	1426.2	1208.9	1075.7	1268.6	1309.9
57.5°	12772.8	6134.7	1319.1	1625.1	1798.0	1593.0	1387.9	1185.9	1055.9	1150.7	1175.2
60°	14169.9	6547.8	1211.9	1553.2	1712.3	1507.3	1358.8	1196.6	1065.0	1141.5	1153.8
62.5°	15195.1	6788.1	1120.1	1447.6	1596.0	1412.4	1322.1	1210.4	1089.5	1173.7	1170.6
65°	15473.6	6393.3	1005.4	1293.0	1438.4	1312.9	1276.2	1225.7	1100.2	1199.7	1185.9
66°	15083.4	5967.9	954.9	1221.1	1358.8	1264.0	1253.3	1224.2	1095.6	1202.8	1179.8
67.5°	14136.2	5095.6	867.6	1115.5	1231.8	1190.5	1216.5	1210.4	1083.4	1199.7	1167.6
70°	11528.7	3476.7	742.2	928.8	1025.3	1048.2	1146.1	1161.4	1043.6	1146.1	1075.7
72.5°	8055.1	2117.8	656.5	720.7	829.4	893.7	1049.7	1094.1	990.1	1000.8	933.4
75°	3892.9	1124.7	595.3	558.5	644.2	746.7	933.4	1002.3	905.9	837.0	812.5
77.5°	1213.5	687.1	505.0	449.9	505.0	602.9	780.4	878.3	806.4	700.8	691.7
80°	651.9	505.0	388.7	361.1	399.4	472.8	613.6	733.0	693.2	628.9	561.6
82.5°	430.0	327.5	287.7	280.0	304.5	361.1	456.0	607.5	607.5	538.6	391.7
85°	221.9	200.5	197.4	197.4	212.7	240.2	310.6	468.2	498.9	284.6	235.7
87.5°	110.2	114.8	107.1	111.7	119.4	117.8	148.4	235.7	281.6	172.9	143.8
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)