

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: P194818

Luminaire Tested: **GLEON-AF-10-LED-E1-T3R-7060-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194818
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-7060-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 5700K, 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: 39689 lumens
Efficiency: N/A
Efficacy: 122.9 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 - G5

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



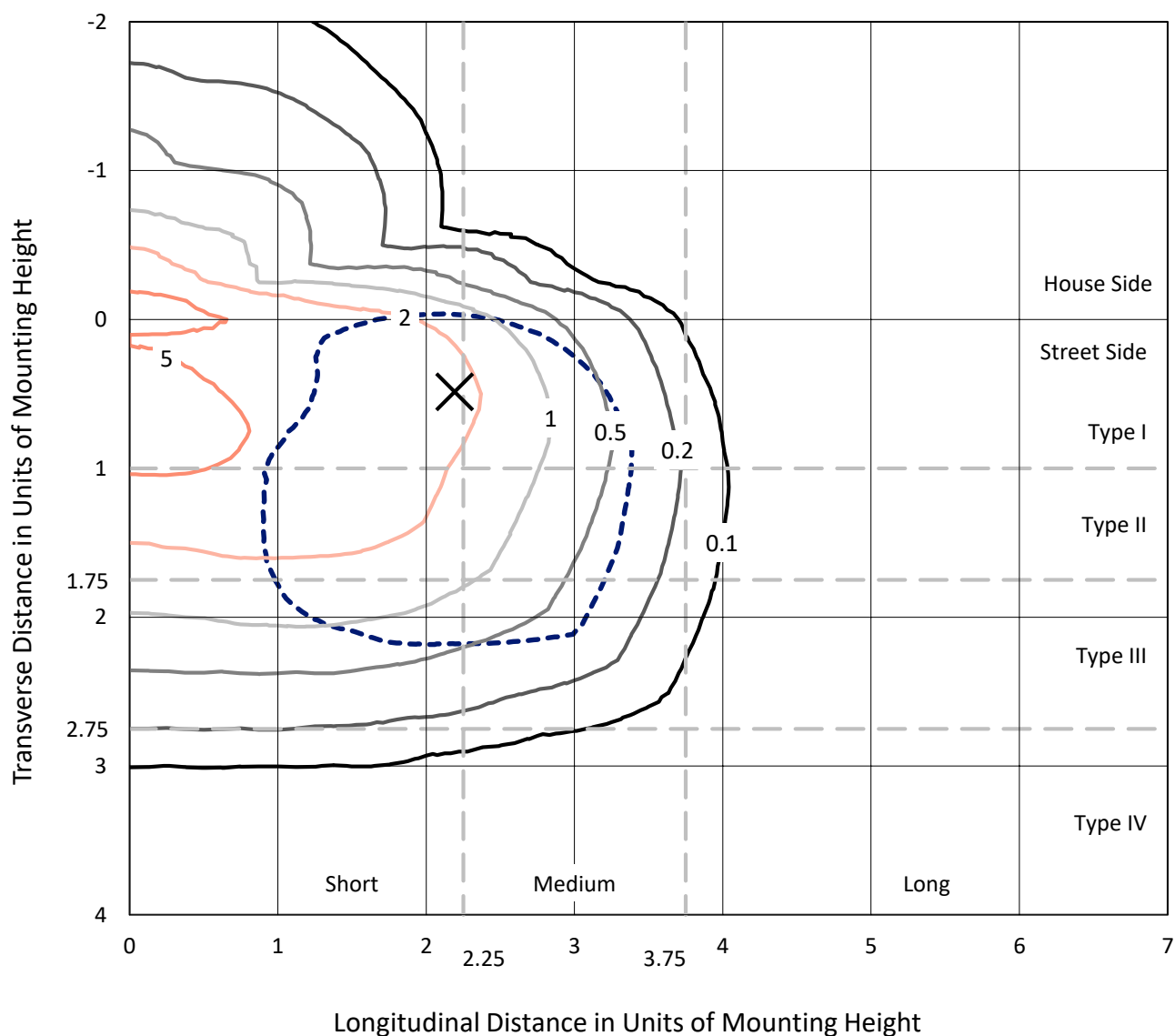
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

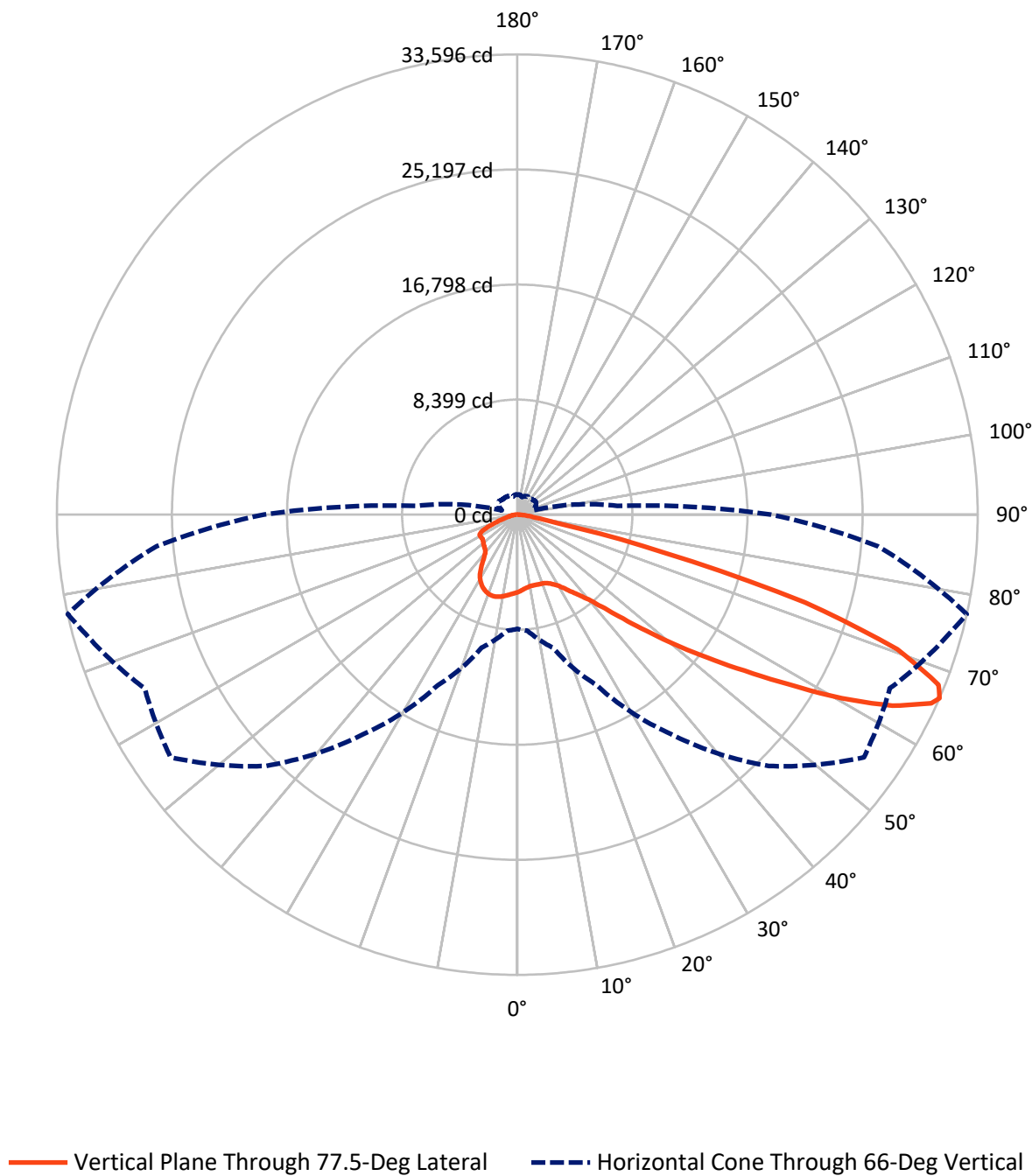


Based on 30 foot mounting height. Maximum calculated value = 7.7 fc
Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6780.6	0.0	6780.6
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	32908.4	0.0	32908.4
	% Fixture	82.9	0.0	82.9
Total	Lumens	39689.0	0.0	39689.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	505.3	1.3
10°-20°	1425.5	3.6
20°-30°	2432.9	6.1
30°-40°	3894.7	9.8
40°-50°	6016.9	15.2
50°-60°	8534.0	21.5
60°-70°	11416.2	28.8
70°-80°	4957.9	12.5
80°-90°	505.5	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°	39689.0	100.0
0°-180°	39689.0	100.0

Coefficient of Utilization



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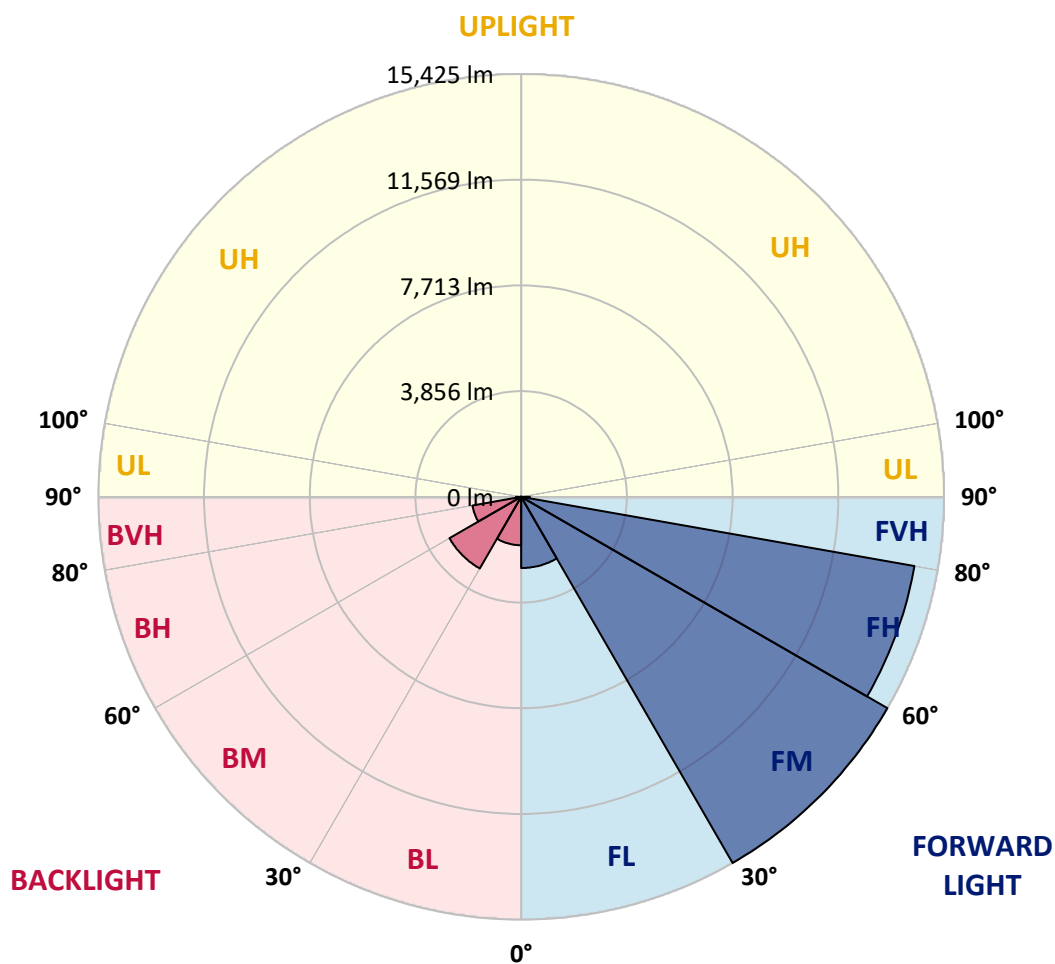
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2597.8	6.5			
FM	(30°-60°)	15425.2	38.9			
FH	(60°-80°)	14568.3	36.7			G5
FVH	(80°-90°)	317.1	0.8			G3/500
BL	(0°-30°)	1766.0	4.4	B3/2500		
BM	(30°-60°)	3020.4	7.6	B3/5000		
BH	(60°-80°)	1805.8	4.5	B3/2500		G3/2500
BVH	(80°-90°)	188.5	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-G5

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77.5°	85°
0°	5655.9	5655.9	5655.9	5655.9	5655.9	5655.9	5655.9	5655.9	5655.9	5655.9	5655.9
2.5°	5003.3	5037.0	5065.2	5091.4	5143.9	5230.2	5329.6	5410.2	5526.5	5549.0	5610.9
5°	4543.8	4543.8	4566.3	4605.7	4677.0	4806.4	4941.4	5121.4	5374.6	5434.6	5599.6
7.5°	4320.7	4322.5	4335.7	4369.4	4431.3	4549.5	4697.6	4909.5	5252.7	5352.1	5633.4
10°	4403.2	4384.4	4356.3	4339.4	4348.8	4418.2	4558.8	4795.1	5177.7	5305.2	5708.4
12.5°	4864.5	4828.9	4731.4	4602.0	4478.2	4427.6	4510.1	4740.7	5145.8	5293.9	5807.8
15°	5618.4	5603.4	5421.5	5153.3	4853.2	4602.0	4545.7	4720.1	5149.5	5307.1	5925.9
17.5°	6563.5	6542.9	6302.8	5912.8	5423.3	4933.9	4671.3	4737.0	5162.7	5329.6	6040.3
20°	7518.0	7454.3	7195.5	6730.4	6102.2	5385.8	4879.5	4780.1	5179.5	5353.9	6160.3
22.5°	8230.6	8178.1	7945.6	7493.7	6769.8	5909.0	5158.9	4855.1	5233.9	5425.2	6308.5
25°	8857.0	8860.7	8630.1	8193.1	7444.9	6464.1	5519.0	5055.8	5372.7	5571.5	6511.0
27.5°	9631.5	9586.5	9370.8	8937.6	8112.5	7024.8	5954.0	5331.4	5579.0	5779.6	6777.3
30°	10557.9	10526.0	10276.6	9785.3	8853.2	7626.8	6451.0	5652.1	5845.3	6053.4	7126.1
32.5°	11647.4	11632.4	11373.6	10741.7	9708.4	8335.7	7034.2	6075.9	6242.8	6458.5	7626.8
35°	12926.4	12928.2	12622.6	11863.1	10644.1	9160.8	7696.2	6621.6	6726.7	6951.7	8223.1
37.5°	13714.0	13809.6	13695.2	12920.7	11703.7	10083.4	8555.1	7345.5	7278.0	7504.9	8862.6
40°	13882.8	13999.0	14361.0	13967.2	12888.9	11099.8	9316.4	8041.2	7956.9	8234.4	9685.9
42.5°	13646.5	13807.8	14572.9	14850.4	14147.2	12352.5	10340.3	9074.5	8967.6	9340.8	10709.8
45°	13505.8	13625.8	14511.0	15309.9	15238.6	13768.4	11643.7	10372.2	10332.8	10822.3	11891.2
47.5°	13262.0	13370.8	14222.2	15416.7	15879.9	15066.1	13209.5	11958.7	12035.6	12677.0	13224.5
50°	13393.3	13438.3	13899.6	15144.8	16065.6	16016.8	14959.2	13796.5	14059.0	14859.8	14734.1
52.5°	13374.6	13490.8	13862.1	14698.5	16090.0	16603.8	16682.6	15846.2	16399.4	17318.3	16408.8
55°	10812.9	11026.7	13421.4	14586.0	16176.2	17179.5	18216.6	18006.5	19037.9	20108.7	18299.1
57.5°	10325.3	10460.4	11788.1	14822.3	16633.8	18278.4	19923.1	20384.4	22109.7	23353.0	20601.9
60°	10229.7	10396.6	11771.2	15111.1	17562.1	20069.3	22452.8	23263.0	25847.1	27208.6	23272.3
62.5°	9931.5	10111.6	11660.5	15073.6	18880.4	22546.6	25691.5	26323.4	29391.4	30715.4	25505.8
65°	8986.4	9155.2	10758.5	14467.9	19769.3	25190.8	29524.5	29128.9	32189.3	33185.1	26619.7
66°	8339.4	8504.4	10047.8	13755.2	19563.0	25940.9	30882.3	29997.1	32815.7	33595.8	26402.2
67.5°	7156.1	7285.5	8667.6	12159.4	18466.0	26150.9	32024.3	30649.7	32881.3	33157.0	25158.9
70°	4521.3	4558.8	5633.4	8393.8	13978.4	22679.7	30285.9	29029.5	30169.6	29423.3	21091.4
72.5°	1961.6	1948.4	2704.2	4270.0	7913.7	15218.0	24498.8	23953.1	23666.1	21963.4	14764.1
75°	1091.4	1106.4	1404.6	1982.2	3216.1	7474.9	16026.2	15336.1	12948.9	11049.2	6694.8
77.5°	875.8	896.4	1164.6	1406.5	1444.0	2606.7	7499.3	6102.2	3673.7	2948.0	1860.3
80°	692.0	729.5	1016.4	1095.2	973.3	1074.5	2422.9	1937.2	1453.3	1333.3	963.9
82.5°	547.6	573.8	872.0	828.9	680.7	723.9	1160.8	1130.8	945.1	860.8	557.0
85°	393.8	442.6	716.4	624.5	446.3	487.6	770.7	738.9	542.0	442.6	245.7
87.5°	161.3	210.0	506.3	414.4	249.4	226.9	384.4	361.9	256.9	187.5	121.9
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°	5655.9	5655.9	5655.9	5655.9	5655.9	5655.9	5655.9	5655.9	5655.9	5655.9	5655.9
2.5°	5650.2	5695.3	5753.4	5789.0	5807.8	5820.9	5841.5	5839.6	5845.3	5847.2	5854.7
5°	5687.8	5762.8	5847.2	5869.7	5869.7	5849.0	5828.4	5794.6	5781.5	5777.8	5781.5
7.5°	5785.3	5867.8	5940.9	5914.7	5858.4	5775.9	5669.0	5575.2	5524.6	5507.7	5504.0
10°	5909.0	6008.4	6038.4	5939.0	5774.0	5575.2	5363.3	5209.6	5121.4	5097.0	5089.5
12.5°	6059.1	6152.8	6111.6	5901.5	5595.9	5275.2	4982.6	4737.0	4553.2	4495.1	4491.3
15°	6224.1	6297.2	6152.8	5785.3	5329.6	4857.0	4335.7	3911.9	3683.1	3609.9	3604.3
17.5°	6377.9	6415.4	6128.4	5582.7	4937.6	4172.5	3480.5	3154.2	3075.5	3094.2	3098.0
20°	6509.1	6509.1	6045.9	5292.1	4320.7	3270.5	2833.6	2827.9	2884.2	2940.5	2951.7
22.5°	6653.5	6567.3	5901.5	4881.4	3446.8	2676.0	2612.3	2664.8	2728.5	2790.4	2799.8
25°	6831.7	6614.1	5700.9	4258.8	2709.8	2430.4	2454.8	2497.9	2529.8	2569.1	2574.8
27.5°	7030.5	6674.2	5436.5	3401.8	2351.6	2276.6	2295.4	2310.4	2306.6	2321.6	2325.4
30°	7268.6	6743.5	5074.5	2659.2	2203.5	2145.3	2111.6	2098.4	2098.4	2122.8	2132.2
32.5°	7587.4	6846.7	4555.1	2278.5	2132.2	2051.6	1942.8	1894.0	1912.8	1995.3	2014.1
35°	7938.1	6957.3	3851.8	2149.1	2117.2	2008.4	1839.7	1749.6	1751.5	1828.4	1852.8
37.5°	8320.7	7098.0	3081.1	2124.7	2151.0	2010.3	1785.3	1661.5	1610.9	1610.9	1620.2
40°	8810.1	7242.4	2494.1	2141.6	2222.2	2032.8	1757.1	1592.1	1449.6	1453.3	1460.9
42.5°	9447.7	7366.1	2179.1	2177.2	2308.5	2062.8	1755.3	1500.2	1376.5	1460.9	1537.7
45°	10156.6	7428.0	2040.3	2209.1	2377.9	2081.6	1725.3	1485.2	1385.8	1637.1	1783.4
47.5°	10972.3	7392.4	1963.4	2220.3	2394.7	2081.6	1691.5	1520.9	1451.5	1895.9	2066.6
50°	11866.8	7289.2	1888.4	2197.8	2389.1	2077.8	1723.4	1556.5	1475.9	1940.9	2059.1
52.5°	12918.9	7203.0	1809.7	2149.1	2349.7	2057.2	1760.9	1541.5	1399.0	1764.6	1847.2
55°	14119.0	7227.4	1721.5	2079.7	2287.9	2017.8	1747.8	1481.5	1318.3	1554.6	1605.2
57.5°	15653.0	7518.0	1616.5	1991.6	2203.5	1952.2	1700.9	1453.3	1293.9	1410.2	1440.2
60°	17365.2	8024.4	1485.2	1903.4	2098.4	1847.2	1665.3	1466.5	1305.2	1399.0	1414.0
62.5°	18621.6	8318.8	1372.7	1774.0	1955.9	1730.9	1620.2	1483.4	1335.2	1438.3	1434.6
65°	18962.9	7835.0	1232.1	1584.6	1762.8	1609.0	1564.0	1502.1	1348.3	1470.2	1453.3
66°	18484.7	7313.6	1170.2	1496.5	1665.3	1549.0	1535.9	1500.2	1342.7	1474.0	1445.8
67.5°	17323.9	6244.7	1063.3	1367.1	1509.6	1459.0	1490.9	1483.4	1327.7	1470.2	1430.8
70°	14128.4	4260.7	909.5	1138.3	1256.4	1284.6	1404.6	1423.3	1278.9	1404.6	1318.3
72.5°	9871.5	2595.4	804.5	883.3	1016.4	1095.2	1286.4	1340.8	1213.3	1226.4	1143.9
75°	4770.7	1378.3	729.5	684.5	789.5	915.1	1143.9	1228.3	1110.2	1025.8	995.8
77.5°	1487.1	842.0	618.8	551.3	618.8	738.9	956.4	1076.4	988.3	858.9	847.6
80°	798.9	618.8	476.3	442.6	489.5	579.5	752.0	898.3	849.5	770.7	688.2
82.5°	527.0	401.3	352.6	343.2	373.2	442.6	558.8	744.5	744.5	660.1	480.1
85°	271.9	245.7	241.9	241.9	260.7	294.4	380.7	573.8	611.3	348.8	288.8
87.5°	135.0	140.6	131.3	136.9	146.3	144.4	181.9	288.8	345.1	211.9	176.3
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)