

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: P191486

Luminaire Tested: **GLEON-AF-08-LED-E1-T3R-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191486
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-08-LED-E1-T3R-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40312.4 lumens
Efficiency: N/A
Efficacy: 120.7 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

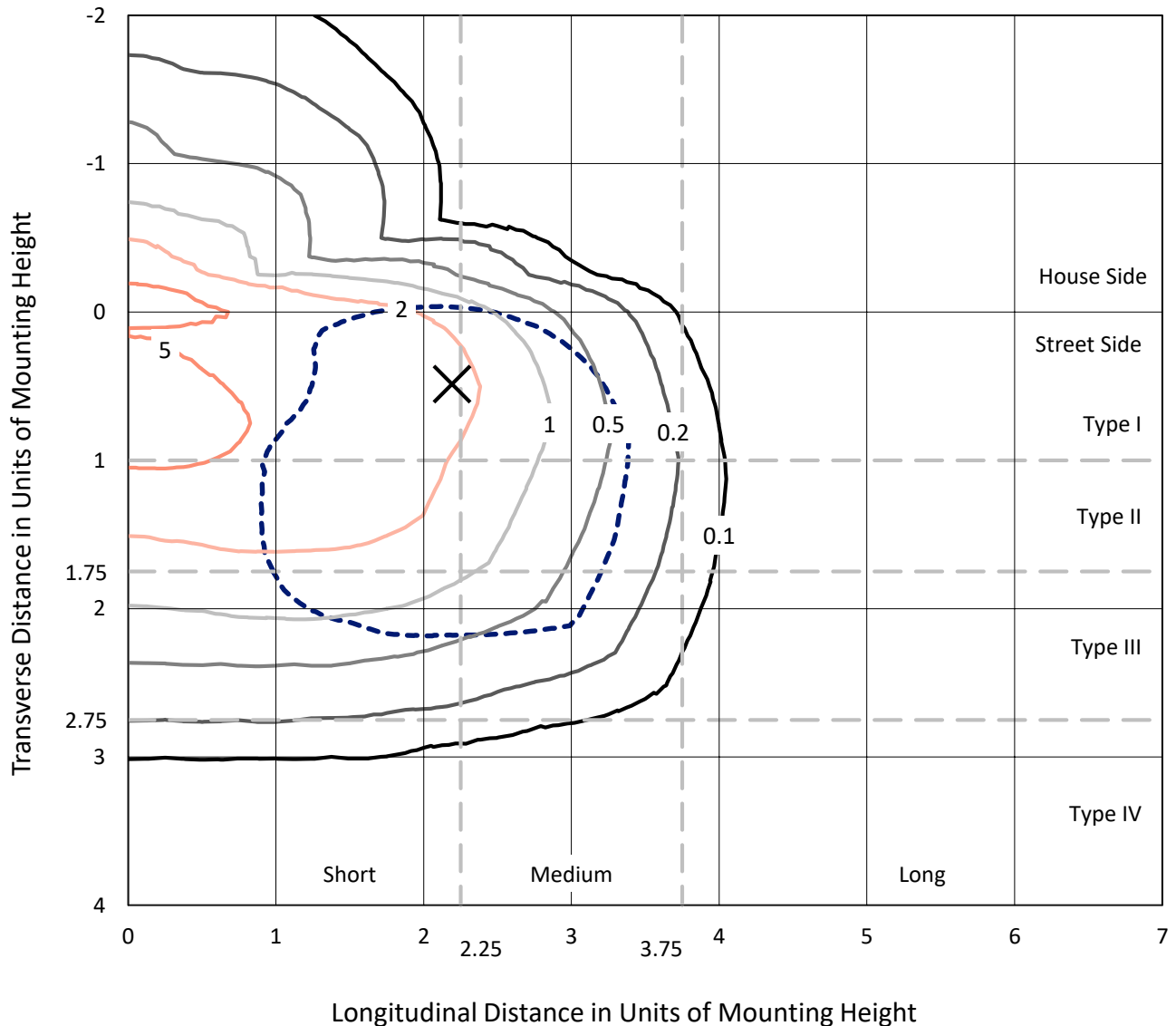


REPORT NUMBER: P191486

CATALOG NUMBER: GLEON-AF-08-LED-E1-T3R-800

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

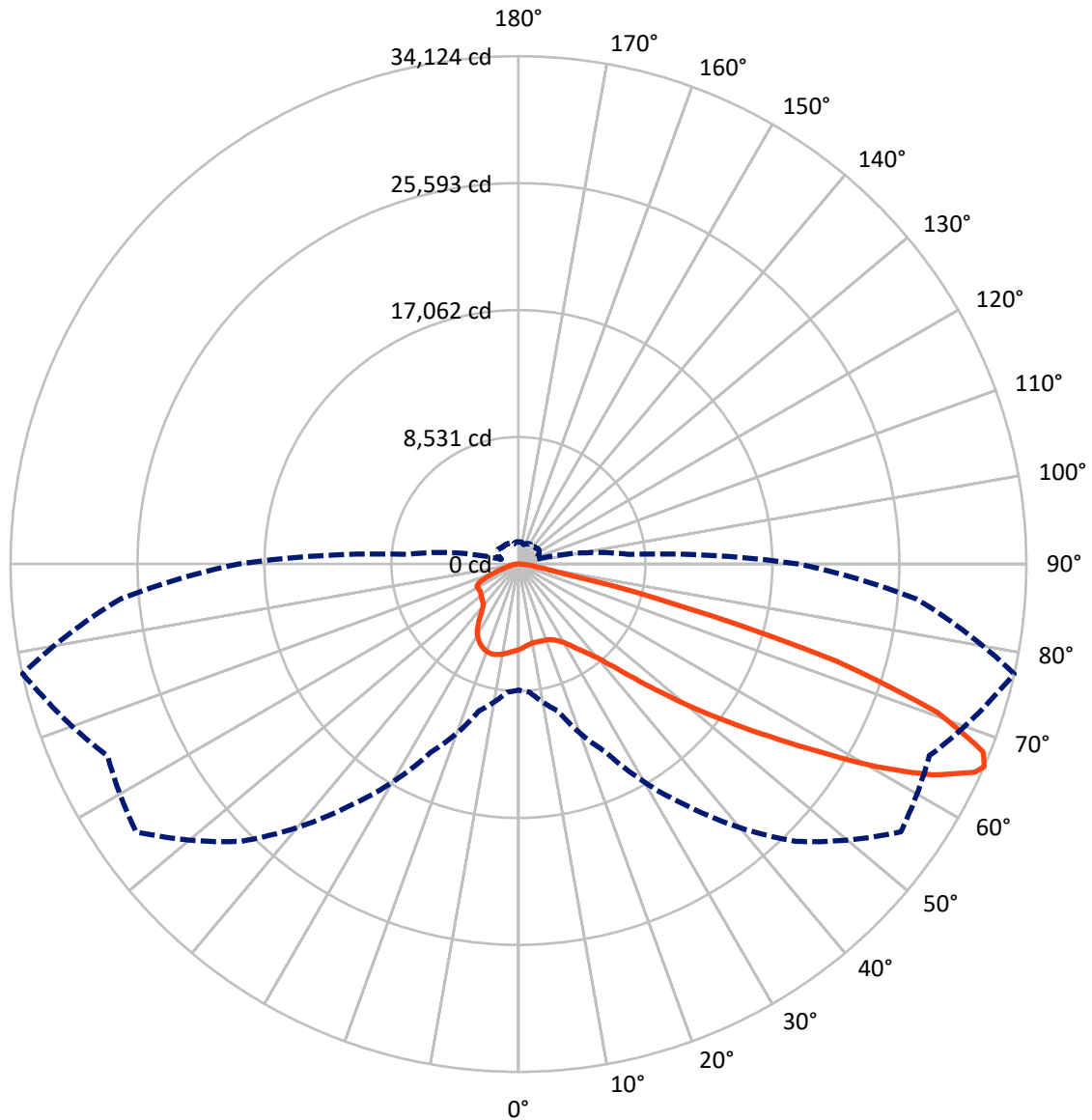


Based on 30 foot mounting height. Maximum calculated value = 7.9 fc
 Type III - Short - Full Cutoff

REPORT NUMBER: P191486

CATALOG NUMBER: GLEON-AF-08-LED-E1-T3R-800

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	6887.1	0.0	6887.1
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	33425.3	0.0	33425.3
	% Fixture	82.9	0.0	82.9
Total	Lumens	40312.4	0.0	40312.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	513.2	1.3
10°-20°	1447.9	3.6
20°-30°	2471.1	6.1
30°-40°	3955.8	9.8
40°-50°	6111.4	15.2
50°-60°	8668.1	21.5
60°-70°	11595.6	28.8
70°-80°	5035.7	12.5
80°-90°	513.5	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°	40312.4	100.0
0°-180°	40312.4	100.0



REPORT NUMBER: P191486

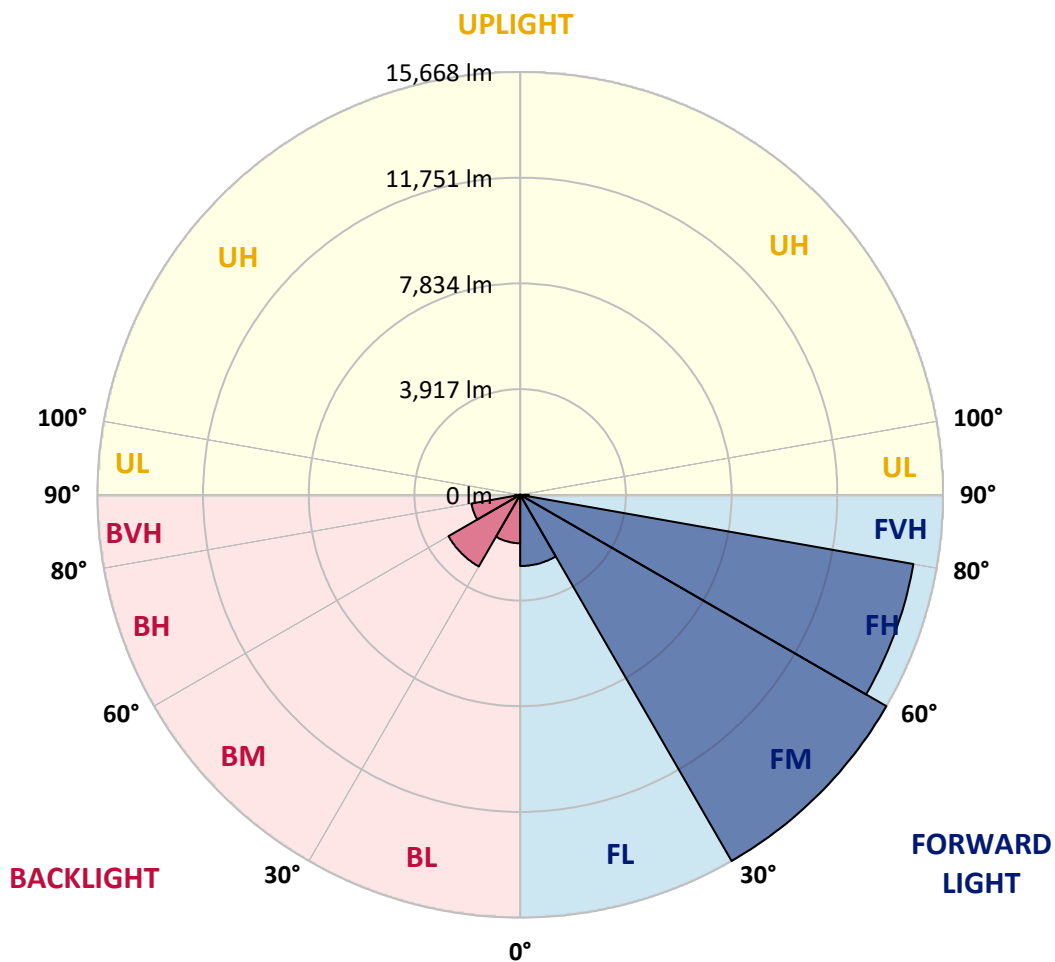
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2638.6	6.5			
FM	(30°-60°)	15667.5	38.9			
FH	(60°-80°)	14797.1	36.7			G5
FVH	(80°-90°)	322.0	0.8			G3/500
BL	(0°-30°)	1793.7	4.4	B3/2500		
BM	(30°-60°)	3067.8	7.6	B3/5000		
BH	(60°-80°)	1834.2	4.5	B3/2500		G3/2500
BVH	(80°-90°)	191.4	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





REPORT NUMBER: P191486

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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77.5°	85°
0°	5744.7	5744.7	5744.7	5744.7	5744.7	5744.7	5744.7	5744.7	5744.7	5744.7	5744.7
2.5°	5081.8	5116.2	5144.7	5171.4	5224.7	5312.4	5413.3	5495.2	5613.2	5636.2	5699.0
5°	4615.2	4615.2	4638.1	4678.1	4750.5	4881.8	5019.0	5201.9	5459.0	5519.9	5687.6
7.5°	4388.6	4390.4	4403.8	4438.1	4500.9	4620.9	4771.3	4986.6	5335.2	5436.2	5721.9
10°	4472.3	4453.3	4424.8	4407.6	4417.1	4487.6	4630.5	4870.5	5259.0	5388.5	5798.1
12.5°	4941.0	4904.7	4805.7	4674.3	4548.6	4497.1	4580.9	4815.2	5226.7	5377.1	5899.1
15°	5706.6	5691.4	5506.6	5234.2	4929.5	4674.3	4617.1	4794.3	5230.4	5390.4	6019.0
17.5°	6666.6	6645.7	6401.8	6005.6	5508.5	5011.4	4744.8	4811.3	5243.7	5413.3	6135.1
20°	7636.1	7571.4	7308.5	6836.2	6198.1	5470.4	4956.2	4855.2	5260.9	5438.0	6257.1
22.5°	8360.0	8306.6	8070.4	7611.4	6876.2	6001.9	5240.0	4931.3	5316.2	5510.4	6407.6
25°	8996.1	8999.9	8765.7	8321.8	7561.9	6565.7	5605.7	5135.2	5457.1	5659.0	6613.3
27.5°	9782.8	9737.1	9518.0	9078.0	8240.0	7135.2	6047.6	5415.2	5666.6	5870.4	6883.7
30°	10723.7	10691.4	10438.0	9939.0	8992.4	7746.6	6552.3	5740.9	5937.1	6148.5	7238.0
32.5°	11830.4	11815.2	11552.3	10910.4	9860.8	8466.6	7144.7	6171.4	6340.9	6560.0	7746.6
35°	13129.4	13131.3	12820.8	12049.4	10811.4	9304.7	7817.1	6725.7	6832.3	7060.9	8352.3
37.5°	13929.4	14026.6	13910.4	13123.7	11887.5	10241.8	8689.5	7460.9	7392.4	7622.8	9001.9
40°	14100.9	14218.9	14586.6	14186.6	13091.3	11274.1	9462.8	8167.5	8081.8	8363.7	9838.0
42.5°	13860.9	14024.7	14801.8	15083.7	14369.4	12546.6	10502.7	9217.1	9108.5	9487.6	10878.0
45°	13718.0	13839.9	14738.9	15550.4	15478.0	13984.7	11826.5	10535.2	10495.2	10992.3	12078.0
47.5°	13470.3	13580.8	14445.6	15658.9	16129.4	15302.7	13417.0	12146.5	12224.7	12876.1	13432.3
50°	13603.7	13649.4	14117.9	15382.7	16318.0	16268.4	15194.2	14013.2	14279.9	15093.2	14965.6
52.5°	13584.7	13702.7	14079.9	14929.4	16342.8	16864.7	16944.7	16095.1	16657.0	17590.4	16666.5
55°	10982.8	11199.9	13632.3	14815.1	16430.3	17449.4	18502.7	18289.3	19336.9	20424.6	18586.5
57.5°	10487.5	10624.7	11973.2	15055.1	16895.1	18565.5	20236.0	20704.6	22456.9	23719.8	20925.6
60°	10390.4	10559.9	11956.0	15348.5	17837.9	20384.5	22805.6	23628.4	26253.1	27635.9	23637.9
62.5°	10087.5	10270.4	11843.7	15310.4	19177.0	22900.8	26095.1	26737.0	29853.1	31197.9	25906.4
65°	9127.6	9298.9	10927.6	14695.1	20079.8	25586.5	29988.3	29586.4	32694.9	33706.4	27037.9
66°	8470.4	8638.0	10205.7	13971.4	19870.3	26348.3	31367.4	30468.3	33331.1	34123.5	26817.0
67.5°	7268.5	7399.9	8803.7	12350.4	18756.0	26561.7	32527.4	31131.2	33397.8	33677.8	25554.0
70°	4592.3	4630.5	5721.9	8525.7	14197.9	23036.0	30761.7	29485.4	30643.5	29885.5	21422.6
72.5°	1992.4	1979.0	2746.6	4337.1	8038.0	15457.0	24883.6	24329.4	24037.9	22308.4	14996.0
75°	1108.6	1123.8	1426.6	2013.3	3266.7	7592.3	16278.0	15577.0	13152.3	11222.8	6800.0
77.5°	889.6	910.4	1182.8	1428.6	1466.6	2647.6	7617.1	6198.1	3731.4	2994.3	1889.5
80°	702.9	740.9	1032.4	1112.4	988.6	1091.4	2460.9	1967.6	1476.2	1354.3	979.1
82.5°	556.2	582.9	885.7	841.9	691.4	735.2	1179.1	1148.6	960.0	874.3	565.7
85°	400.0	449.5	727.6	634.2	453.4	495.2	782.9	750.4	550.4	449.5	249.5
87.5°	163.8	213.3	514.2	420.9	253.3	230.5	390.5	367.6	261.0	190.5	123.8
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°	5744.7	5744.7	5744.7	5744.7	5744.7	5744.7	5744.7	5744.7	5744.7	5744.7	5744.7
2.5°	5739.0	5784.7	5843.8	5879.9	5899.1	5912.3	5933.3	5931.4	5937.1	5939.0	5946.6
5°	5777.1	5853.3	5939.0	5961.9	5961.9	5940.9	5919.9	5885.6	5872.4	5868.6	5872.4
7.5°	5876.1	5959.9	6034.3	6007.6	5950.4	5866.6	5758.1	5662.9	5611.4	5594.2	5590.4
10°	6001.9	6102.8	6133.3	6032.3	5864.7	5662.9	5447.6	5291.4	5201.9	5177.1	5169.5
12.5°	6154.3	6249.5	6207.6	5994.3	5683.7	5358.0	5060.9	4811.3	4624.8	4565.6	4561.8
15°	6321.8	6396.1	6249.5	5876.1	5413.3	4933.3	4403.8	3973.3	3740.9	3666.7	3660.9
17.5°	6478.0	6516.1	6224.8	5670.4	5015.2	4238.1	3535.2	3203.8	3123.8	3142.8	3146.6
20°	6611.3	6611.3	6140.9	5375.2	4388.6	3321.8	2878.1	2872.3	2929.5	2986.6	2998.1
22.5°	6758.0	6670.5	5994.3	4958.0	3500.9	2718.1	2653.3	2706.6	2771.4	2834.3	2843.8
25°	6939.0	6718.0	5790.4	4325.6	2752.4	2468.6	2493.3	2537.1	2569.6	2609.5	2615.2
27.5°	7140.9	6779.0	5521.9	3455.2	2388.6	2312.4	2331.4	2346.6	2342.9	2358.1	2361.9
30°	7382.8	6849.5	5154.2	2700.9	2238.1	2179.0	2144.7	2131.4	2131.4	2156.2	2165.7
32.5°	7706.6	6954.2	4626.6	2314.2	2165.7	2083.8	1973.3	1923.8	1942.9	2026.7	2045.7
35°	8062.8	7066.6	3912.4	2182.9	2150.4	2040.0	1868.5	1777.2	1779.0	1857.2	1881.9
37.5°	8451.3	7209.5	3129.5	2158.1	2184.7	2041.9	1813.3	1687.6	1636.2	1636.2	1645.7
40°	8948.5	7356.1	2533.3	2175.2	2257.1	2064.7	1784.7	1617.1	1472.3	1476.2	1483.8
42.5°	9596.1	7481.9	2213.4	2211.4	2344.7	2095.2	1782.8	1523.8	1398.1	1483.8	1561.8
45°	10316.2	7544.7	2072.4	2243.7	2415.2	2114.2	1752.4	1508.5	1407.6	1662.8	1811.4
47.5°	11144.6	7508.6	1994.2	2255.2	2432.4	2114.2	1718.0	1544.8	1474.3	1925.7	2099.0
50°	12053.2	7403.7	1918.0	2232.4	2426.6	2110.4	1750.5	1581.0	1499.0	1971.4	2091.4
52.5°	13121.8	7316.1	1838.0	2182.9	2386.6	2089.5	1788.5	1565.7	1421.0	1792.4	1876.2
55°	14340.8	7340.9	1748.5	2112.4	2323.8	2049.5	1775.2	1504.8	1339.0	1579.0	1630.5
57.5°	15898.9	7636.1	1641.9	2022.9	2238.1	1982.9	1727.6	1476.2	1314.3	1432.3	1462.8
60°	17637.9	8150.4	1508.5	1933.3	2131.4	1876.2	1691.4	1489.5	1325.7	1421.0	1436.2
62.5°	18914.2	8449.5	1394.3	1801.9	1986.7	1758.0	1645.7	1506.7	1356.2	1461.0	1457.1
65°	19260.8	7958.0	1251.4	1609.5	1790.5	1634.3	1588.5	1525.7	1369.5	1493.3	1476.2
66°	18775.0	7428.5	1188.6	1520.0	1691.4	1573.3	1560.0	1523.8	1363.8	1497.1	1468.5
67.5°	17596.1	6342.8	1080.0	1388.6	1533.3	1481.8	1514.3	1506.7	1348.6	1493.3	1453.3
70°	14350.4	4327.6	923.8	1156.1	1276.1	1304.8	1426.6	1445.7	1299.0	1426.6	1339.0
72.5°	10026.6	2636.1	817.1	897.1	1032.4	1112.4	1306.6	1361.9	1232.3	1245.7	1161.9
75°	4845.7	1400.0	740.9	695.2	801.9	929.6	1161.9	1247.6	1127.6	1041.9	1011.4
77.5°	1510.5	855.2	628.6	560.0	628.6	750.4	971.4	1093.3	1003.8	872.4	860.9
80°	811.4	628.6	483.9	449.5	497.2	588.6	763.8	912.4	862.9	782.9	699.1
82.5°	535.2	407.6	358.1	348.5	379.0	449.5	567.6	756.2	756.2	670.4	487.6
85°	276.2	249.5	245.7	245.7	264.7	299.0	386.7	582.9	620.9	354.2	293.3
87.5°	137.2	142.9	133.3	139.0	148.5	146.7	184.7	293.3	350.5	215.2	179.0
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)