

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: P194108

Luminaire Tested: **GLEON-AF-10-LED-E1-T4W-8030-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P194108  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24147)  
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-T4W-8030-800  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(10) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 38572 lumens  
Efficiency: N/A  
Efficacy: 92.1 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Semi-Cutoff  
BUG Rating: B3 - U0 - G5

Input Watts (W): 419  
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

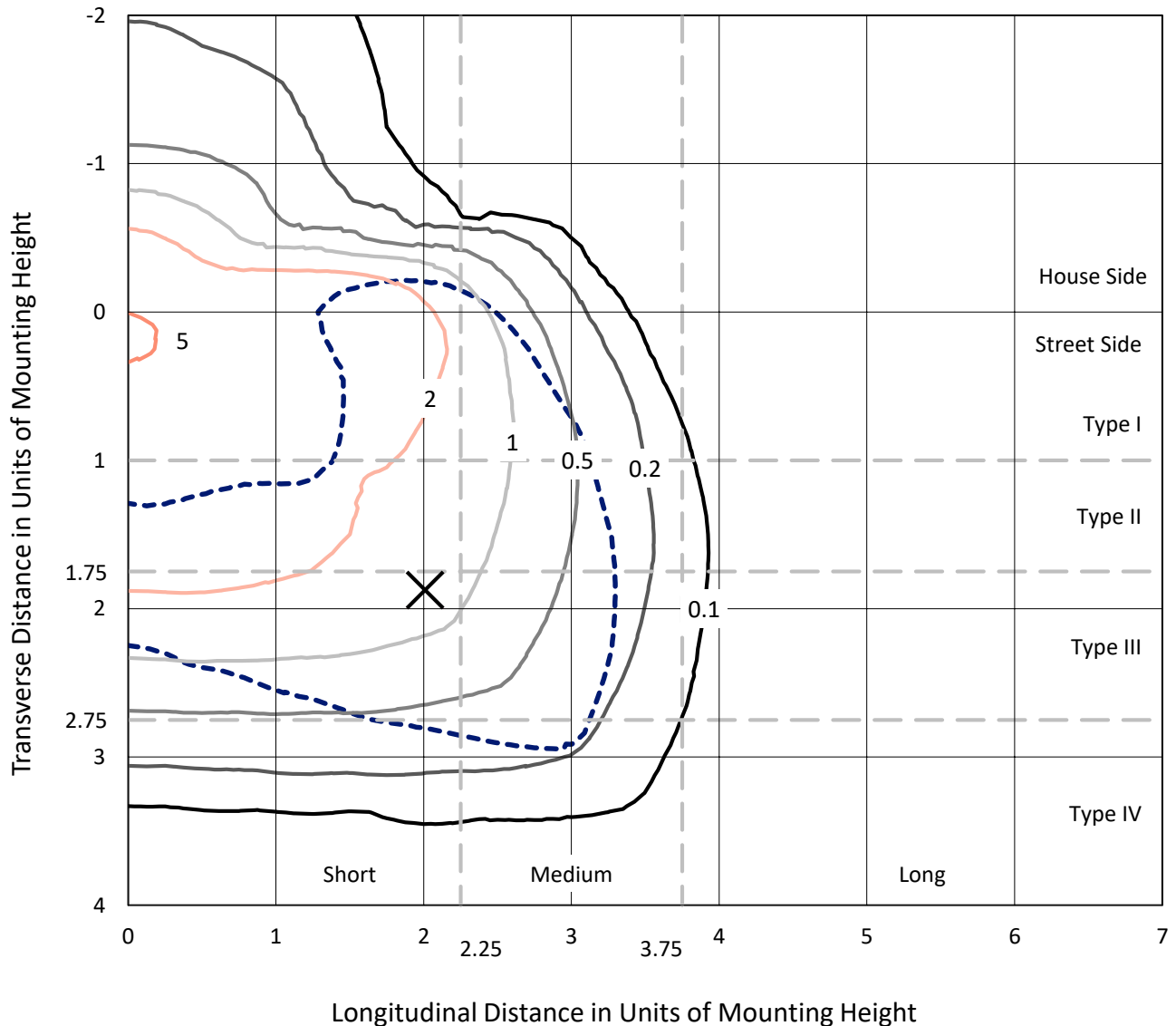


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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

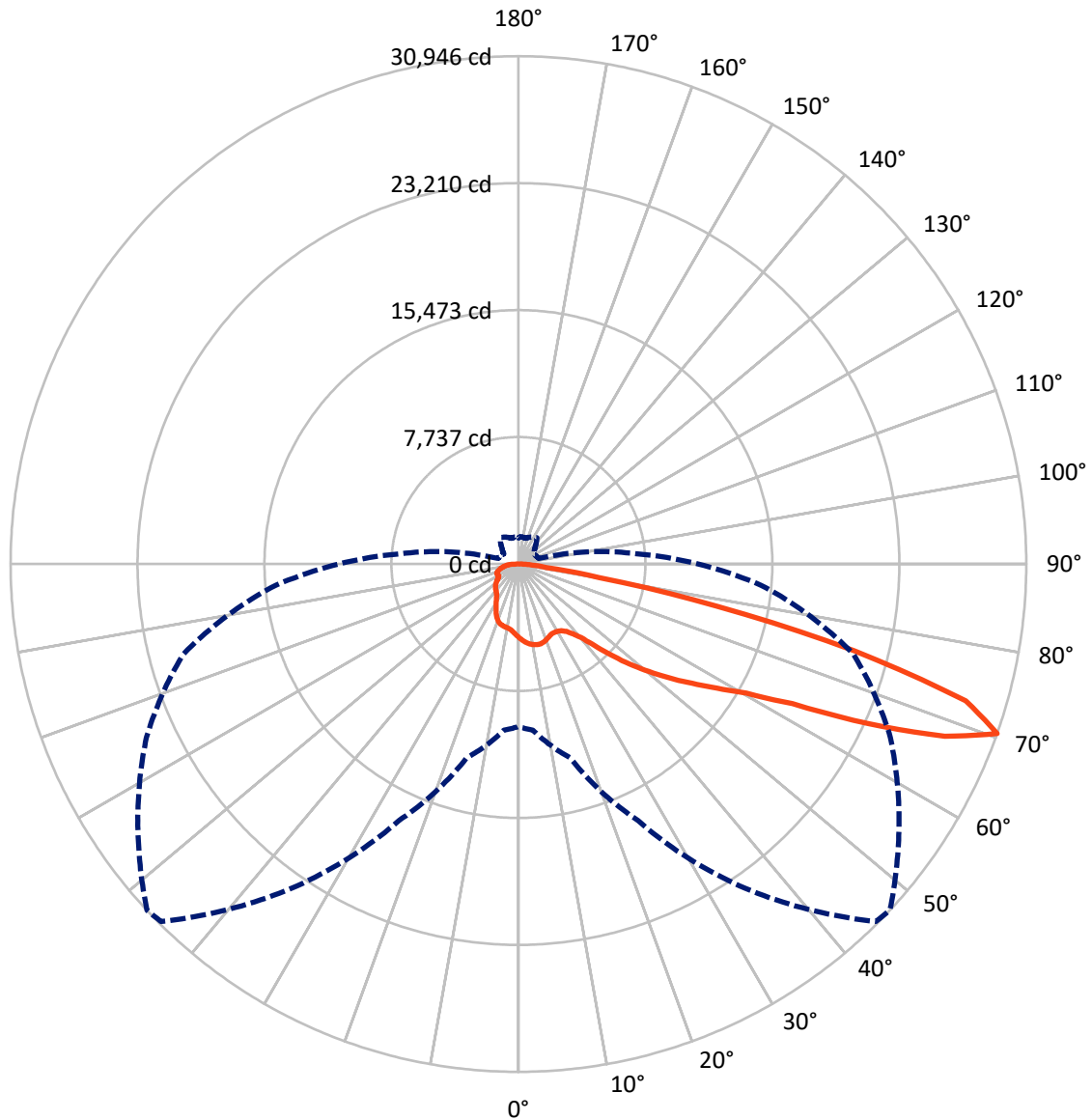


Based on 30 foot mounting height. Maximum calculated value = 5.7 fc  
 Type IV - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8046.9	0.0	8046.9
	% Fixture	20.9	0.0	20.9
<b>Street Side</b>	Lumens	30525.1	0.0	30525.1
	% Fixture	79.1	0.0	79.1
<b>Total</b>	Lumens	38572.0	0.0	38572.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	428.8	1.1
10°-20°	1258.1	3.3
20°-30°	1857.9	4.8
30°-40°	2700.4	7.0
40°-50°	4859.7	12.6
50°-60°	8418.9	21.8
60°-70°	12016.2	31.2
70°-80°	6168.5	16.0
80°-90°	863.6	2.2
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°	38572.0	100.0
0°-180°	38572.0	100.0

**Coefficient of Utilization**



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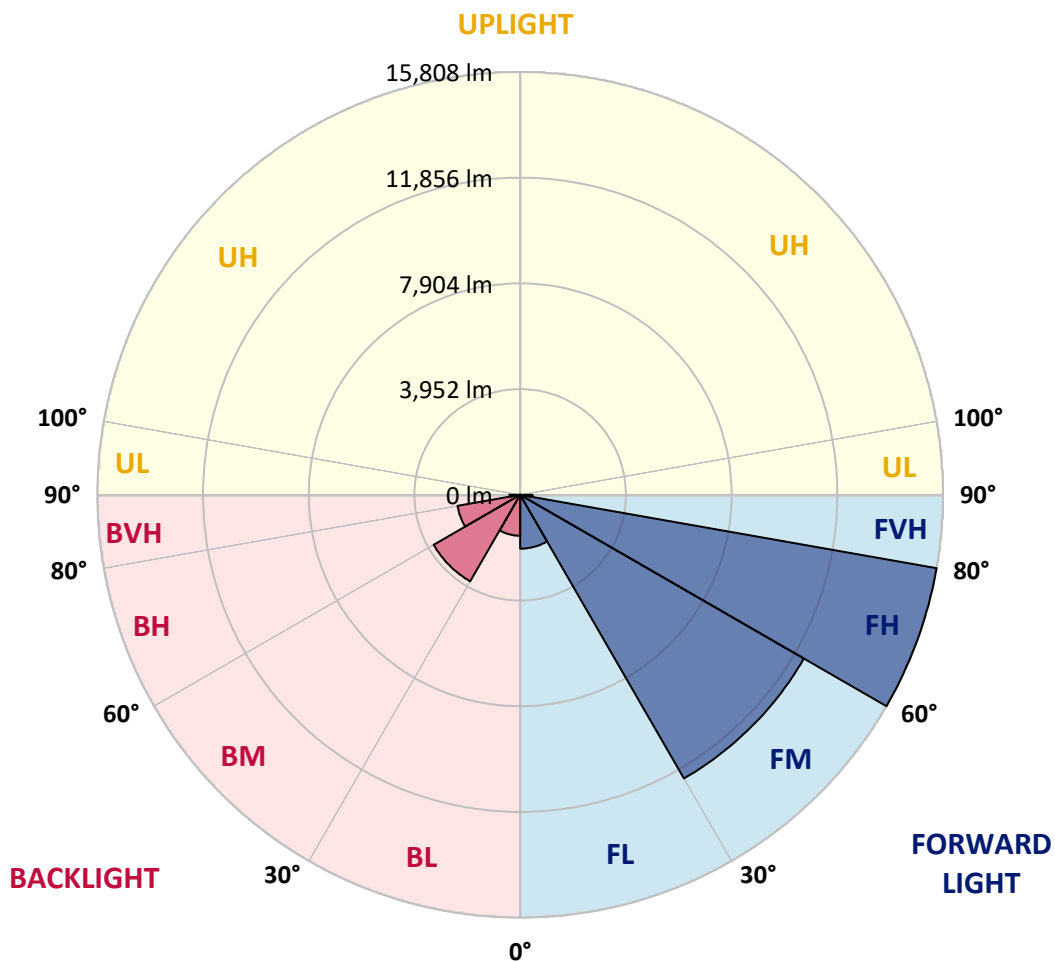
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2012.6	5.2			
FM	(30°-60°)	12243.8	31.7			
FH	(60°-80°)	15807.9	41.0			G5
FVH	(80°-90°)	460.8	1.2			G3/500
BL	(0°-30°)	1532.2	4.0	B3/2500		
BM	(30°-60°)	3735.1	9.7	B3/5000		
BH	(60°-80°)	2376.8	6.2	B3/2500		G3/2500
BVH	(80°-90°)	402.8	1.0			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 IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	4475.6	4475.6	4475.6	4475.6	4475.6	4475.6	4475.6	4475.6	4475.6	4475.6	4475.6
2.5°	4738.3	4728.9	4725.1	4717.6	4708.2	4661.3	4651.9	4618.2	4571.3	4522.5	4471.8
5°	5049.8	5047.9	5027.3	4989.7	4929.7	4826.5	4802.1	4719.5	4608.8	4501.8	4394.9
7.5°	5323.7	5306.9	5267.5	5192.4	5087.3	4946.6	4912.8	4798.3	4646.3	4499.9	4355.5
10°	5524.5	5515.2	5428.8	5325.6	5188.6	5032.9	4993.5	4865.9	4698.9	4513.1	4332.9
12.5°	5639.0	5620.2	5520.8	5396.9	5233.7	5081.7	5042.3	4912.8	4725.1	4513.1	4301.0
15°	5631.5	5618.4	5518.9	5383.8	5218.7	5085.4	5049.8	4920.3	4719.5	4494.3	4259.8
17.5°	5481.4	5487.0	5402.6	5269.3	5134.2	5032.9	5001.0	4880.9	4682.0	4456.8	4211.0
20°	5218.7	5244.9	5188.6	5070.4	4995.4	4925.9	4905.3	4803.9	4623.8	4402.4	4158.4
22.5°	4955.9	4980.3	4957.8	4858.4	4847.1	4805.8	4794.6	4721.4	4573.1	4368.6	4126.5
25°	4762.7	4785.2	4781.4	4695.1	4728.9	4727.0	4717.6	4682.0	4561.9	4368.6	4132.1
27.5°	4710.1	4717.6	4710.1	4631.3	4678.2	4715.8	4708.2	4702.6	4595.7	4423.0	4203.5
30°	4890.3	4879.0	4820.8	4661.3	4704.5	4757.0	4749.5	4753.3	4697.0	4565.6	4363.0
32.5°	5609.0	5558.3	5374.4	4925.9	4811.5	4839.6	4843.4	4905.3	4914.7	4785.2	4610.7
35°	6684.2	6627.9	6389.6	5635.3	5143.6	5046.0	5046.0	5139.8	5196.1	5100.4	4995.4
37.5°	7823.3	7761.4	7633.8	6618.6	5841.7	5404.4	5395.1	5460.7	5541.4	5563.9	5590.2
40°	9118.1	9052.4	9088.1	7722.0	6815.6	6025.6	5892.3	5845.4	6063.1	6207.6	6417.8
42.5°	10534.9	10504.9	10518.0	8951.1	7924.6	6954.5	6764.9	6522.9	6785.6	7042.7	7483.6
45°	11846.6	11872.9	11859.7	10266.6	9159.4	8087.9	7887.1	7418.0	7675.1	8116.0	8834.8
47.5°	12995.1	12886.2	13055.1	11704.0	10542.4	9356.4	9108.7	8480.1	8740.9	9285.1	10501.1
50°	14389.3	14374.3	14126.6	13621.8	12214.4	10630.6	10306.0	9577.9	9983.2	10739.5	12601.0
52.5°	15854.9	15582.8	15355.7	15113.7	13987.7	11936.7	11538.9	10671.9	11443.2	12394.6	15160.6
55°	16155.2	16033.2	16314.7	16721.9	15697.3	13293.4	12829.9	12043.6	13087.0	14286.1	18112.4
57.5°	16796.9	16795.1	17376.8	18103.0	17457.5	14732.7	14265.5	13700.6	14935.4	16453.5	21246.2
60°	17230.4	17352.4	18433.3	19842.6	19185.8	16395.3	15965.6	15612.8	17037.1	18876.1	24166.1
62.5°	17457.5	17622.6	19097.6	20548.1	21629.0	19163.2	18733.5	18225.0	19818.2	21533.3	25873.8
65°	16513.6	16838.2	18994.4	21158.0	23768.3	23650.1	23456.8	22563.5	23295.4	23633.2	25256.4
67.5°	13901.4	14233.6	16744.4	20589.4	25295.8	27977.4	28018.6	26493.0	25434.7	23813.3	21234.9
70°	9904.4	10165.2	12242.6	17262.3	24132.3	30805.3	30946.1	28303.9	25008.7	21118.6	14835.9
72.5°	4702.6	4862.1	6828.7	11234.9	19150.1	28225.1	28497.2	25992.0	21265.0	15635.3	8093.5
75°	1728.3	1777.1	2308.1	4779.6	11107.3	20814.6	21135.5	18632.2	14096.6	7783.9	3083.2
77.5°	1035.9	1067.8	1294.8	2017.3	4368.6	11897.3	12372.0	10133.3	6160.7	2897.4	1516.2
80°	724.3	746.9	928.9	1255.4	2064.2	4533.7	4955.9	4135.9	2454.5	1833.4	1103.4
82.5°	489.8	501.0	653.0	848.2	1371.8	1619.5	1747.1	1839.0	1655.1	1364.2	700.0
85°	320.9	332.1	442.9	559.2	872.6	836.9	855.7	1082.8	1208.5	927.0	388.4
87.5°	183.9	191.4	266.5	298.4	427.9	354.7	358.4	570.5	773.1	624.9	236.4
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°	4475.6	4475.6	4475.6	4475.6	4475.6	4475.6	4475.6	4475.6	4475.6	4475.6	4475.6
2.5°	4458.7	4434.3	4379.8	4346.1	4314.2	4306.7	4293.5	4291.7	4289.8	4289.8	4284.1
5°	4359.2	4317.9	4233.5	4186.6	4147.2	4143.4	4141.5	4150.9	4154.7	4158.4	4152.8
7.5°	4295.4	4239.1	4134.0	4066.5	4019.6	4008.3	4027.1	4070.2	4098.4	4109.6	4104.0
10°	4256.0	4186.6	4064.6	3991.4	3952.0	3946.4	3970.8	4021.4	4079.6	4102.1	4100.2
12.5°	4211.0	4132.1	4002.7	3925.7	3903.2	3914.5	3946.4	3993.3	4053.3	4089.0	4090.9
15°	4165.9	4074.0	3940.7	3873.2	3863.8	3878.8	3908.8	3944.5	3991.4	4027.1	4030.8
17.5°	4111.5	4015.8	3882.6	3813.1	3805.6	3813.1	3815.0	3833.8	3863.8	3897.6	3907.0
20°	4053.3	3955.8	3816.9	3747.5	3713.7	3683.7	3649.9	3653.6	3663.0	3696.8	3704.3
22.5°	4012.0	3914.5	3766.2	3670.5	3580.4	3490.4	3422.8	3413.4	3417.2	3445.3	3454.7
25°	4015.8	3912.6	3753.1	3587.9	3390.9	3246.4	3156.3	3141.3	3139.5	3160.1	3173.2
27.5°	4089.0	3985.8	3801.9	3503.5	3184.5	2970.6	2874.9	2863.6	2848.6	2854.2	2869.2
30°	4252.2	4156.5	3920.1	3417.2	2961.2	2700.3	2600.9	2589.6	2569.0	2559.6	2570.9
32.5°	4518.7	4439.9	4092.7	3334.6	2737.9	2469.5	2368.2	2343.8	2330.7	2319.4	2328.8
35°	4961.6	4927.8	4323.6	3244.5	2540.8	2291.3	2199.3	2161.8	2143.0	2163.7	2178.7
37.5°	5655.9	5674.7	4625.7	3103.8	2388.8	2173.0	2096.1	2052.9	2024.8	2041.7	2058.6
40°	6639.2	6652.3	4959.7	2904.9	2257.5	2103.6	2021.0	1981.6	1942.2	1912.2	1910.3
42.5°	7930.3	7797.0	5288.1	2689.1	2105.5	2060.4	1968.5	1919.7	1859.7	1777.1	1760.2
45°	9461.5	8994.3	5537.7	2441.4	1934.7	2007.9	1910.3	1842.8	1748.9	1658.9	1649.5
47.5°	11225.5	10279.7	5659.7	2184.3	1775.2	1931.0	1839.0	1732.0	1613.8	1568.8	1563.2
50°	13379.7	11805.3	5717.8	1934.7	1636.3	1829.6	1735.8	1610.1	1510.6	1501.2	1495.6
52.5°	15832.4	13640.6	5736.6	1730.2	1521.9	1698.3	1651.4	1529.4	1450.6	1458.1	1458.1
55°	18399.5	15535.9	5481.4	1581.9	1416.8	1563.2	1595.1	1497.5	1431.8	1461.8	1473.1
57.5°	20756.4	17215.4	4678.2	1467.5	1317.3	1459.9	1574.4	1527.5	1482.5	1604.4	1611.9
60°	22565.4	18208.1	3494.1	1364.2	1244.1	1424.3	1628.8	1642.0	1653.2	1944.1	1983.5
62.5°	22944.5	17877.8	2402.0	1283.6	1210.4	1454.3	1728.3	1730.2	1717.0	1919.7	1944.1
65°	21204.9	15789.2	1747.1	1238.5	1182.2	1508.7	1812.7	1773.3	1687.0	1840.9	1795.9
67.5°	16840.1	11895.4	1454.3	1204.7	1140.9	1505.0	1902.8	1812.7	1670.1	1803.4	1730.2
70°	10930.9	7192.8	1294.8	1176.6	1092.1	1433.7	1955.4	1809.0	1621.3	1677.6	1591.3
72.5°	5333.1	3216.4	1187.9	1135.3	1041.5	1334.2	1953.5	1775.2	1570.7	1566.9	1520.0
75°	2086.7	1473.1	1090.3	1073.4	955.2	1221.6	1900.9	1726.4	1510.6	1450.6	1433.7
77.5°	1221.6	1050.9	966.4	981.4	852.0	1109.0	1824.0	1642.0	1428.0	1356.7	1338.0
80°	889.5	786.3	823.8	848.2	728.1	996.4	1720.8	1538.8	1336.1	1371.8	1345.5
82.5°	570.5	506.7	668.0	692.4	606.1	882.0	1608.2	1429.9	1206.6	1095.9	1069.6
85°	290.9	320.9	497.3	527.3	467.3	724.3	1471.2	1285.4	1060.2	912.0	927.0
87.5°	163.3	219.6	317.1	354.7	330.3	557.3	1193.5	1060.2	865.1	703.7	619.3
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)