

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: P191584

Luminaire Tested: **GLEON-AF-06-LED-E1-T4W-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191584
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-06-LED-E1-T4W-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39671.1 lumens
Efficiency: N/A
Efficacy: 103.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G5

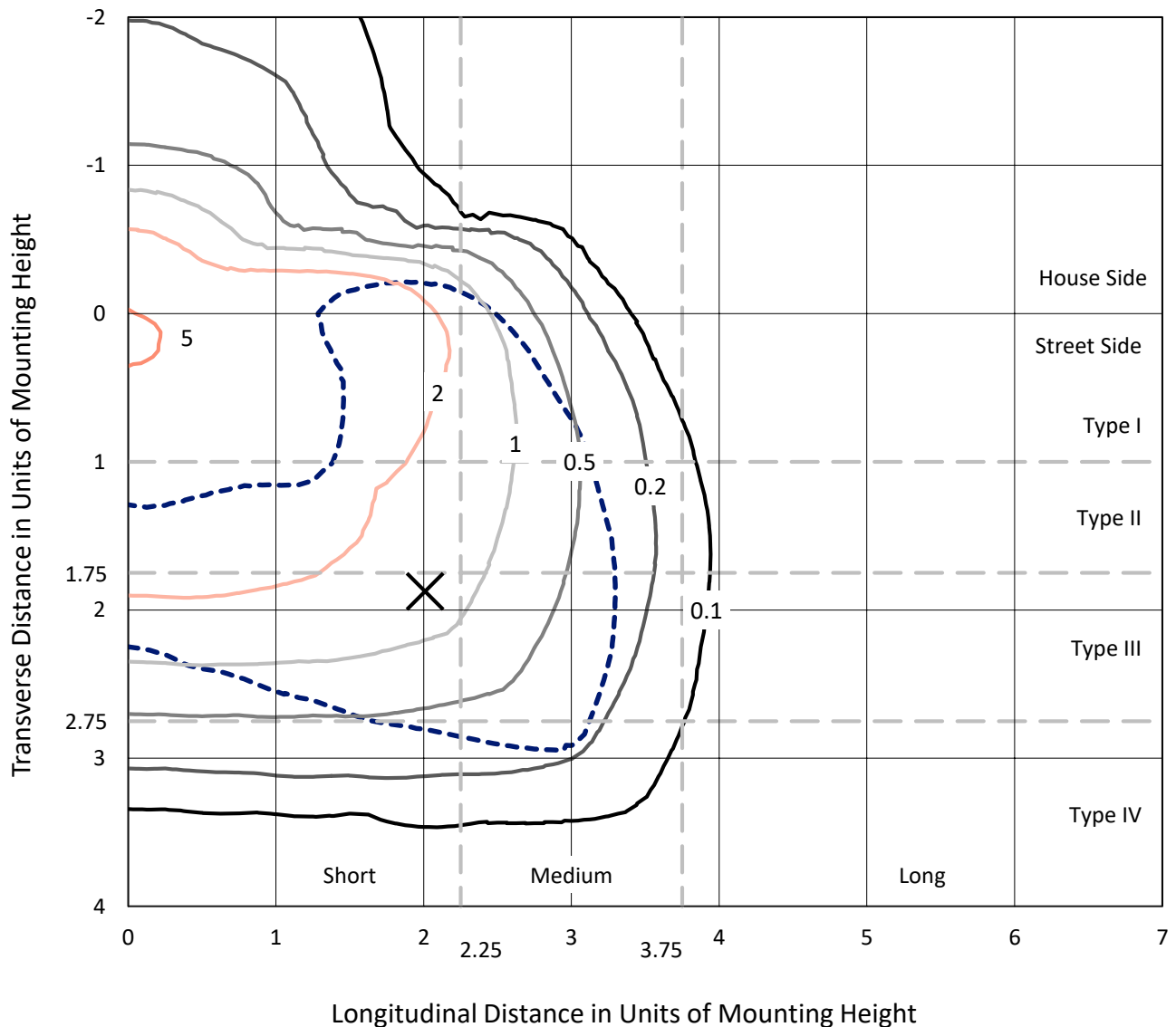
Input Watts (W): 382
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

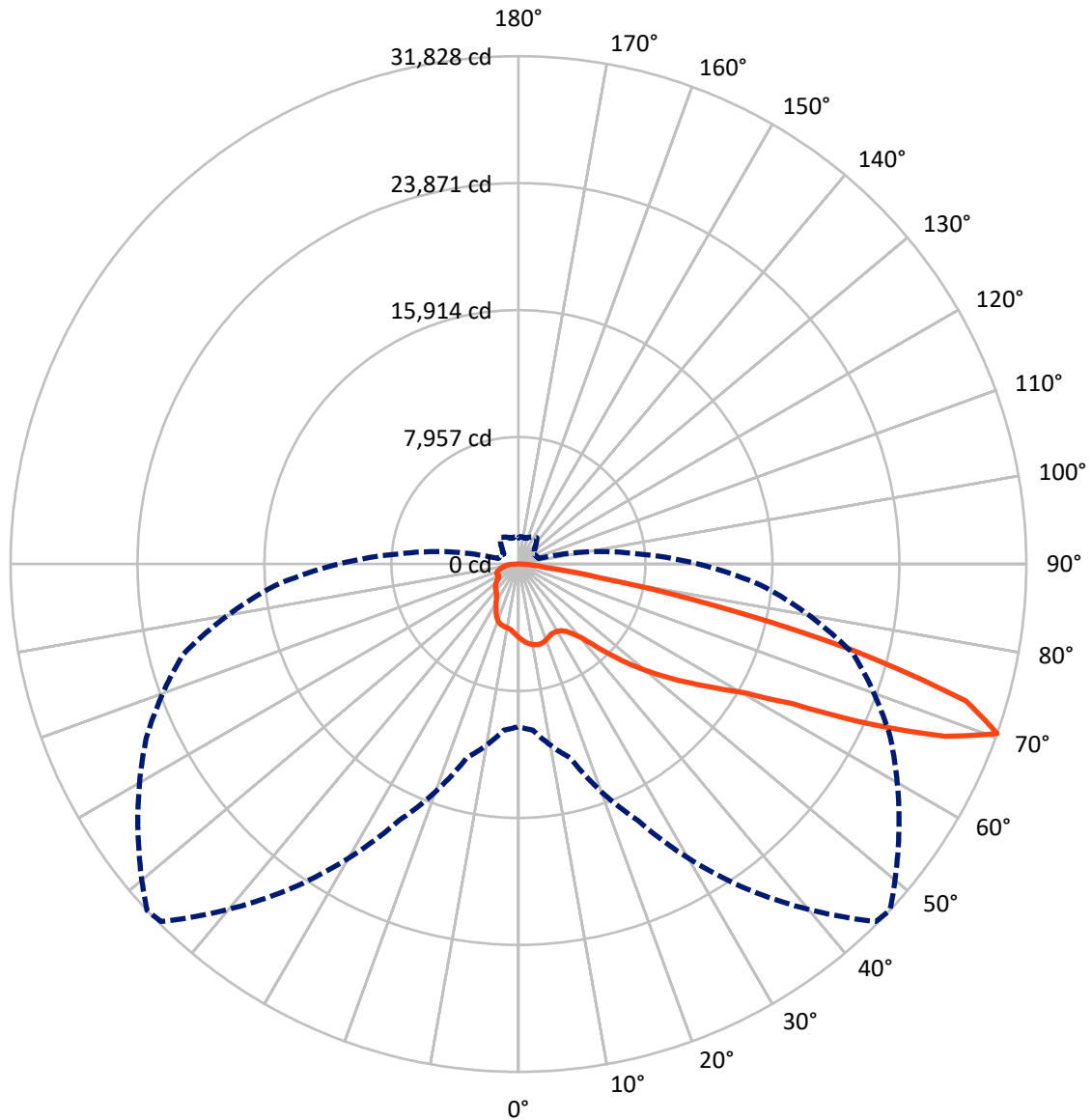
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.9 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
House Side	Lumens	8276.2	0.0	8276.2
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	31394.9	0.0	31394.9
	% Fixture	79.1	0.0	79.1
Total	Lumens	39671.1	0.0	39671.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	441.0	1.1
10°-20°	1293.9	3.3
20°-30°	1910.8	4.8
30°-40°	2777.3	7.0
40°-50°	4998.2	12.6
50°-60°	8658.8	21.8
60°-70°	12358.6	31.2
70°-80°	6344.2	16.0
80°-90°	888.2	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°	39671.1	100.0
0°-180°	39671.1	100.0

Coefficient of Utilization



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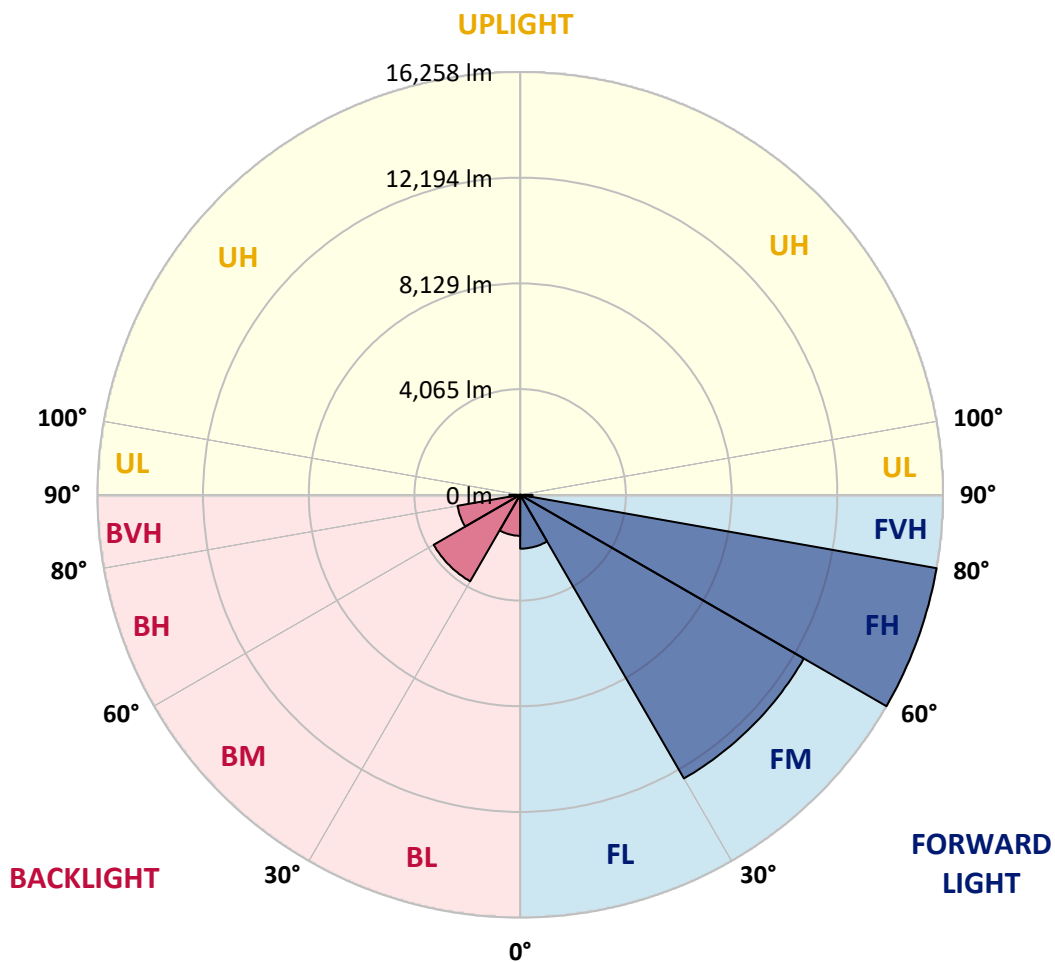
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2069.9	5.2			
FM	(30°-60°)	12592.7	31.7			
FH	(60°-80°)	16258.3	41.0			G5
FVH	(80°-90°)	474.0	1.2			G3/500
BL	(0°-30°)	1575.8	4.0	B3/2500		
BM	(30°-60°)	3841.5	9.7	B3/5000		
BH	(60°-80°)	2444.5	6.2	B3/2500		G3/2500
BVH	(80°-90°)	414.3	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°	4603.1	4603.1	4603.1	4603.1	4603.1	4603.1	4603.1	4603.1	4603.1	4603.1	4603.1
2.5°	4873.2	4863.6	4859.7	4852.1	4842.4	4794.2	4784.5	4749.8	4701.5	4651.4	4599.2
5°	5193.6	5191.7	5170.5	5131.9	5070.2	4964.0	4938.9	4854.0	4740.1	4630.1	4520.1
7.5°	5475.4	5458.1	5417.5	5340.3	5232.3	5087.5	5052.8	4935.0	4778.7	4628.1	4479.6
10°	5682.0	5672.3	5583.6	5477.4	5336.5	5176.3	5135.7	5004.5	4832.7	4641.6	4456.4
12.5°	5799.7	5780.4	5678.1	5550.7	5382.8	5226.5	5186.0	5052.8	4859.7	4641.6	4423.5
15°	5791.9	5778.4	5676.1	5537.2	5367.3	5230.3	5193.6	5060.5	4854.0	4622.4	4381.1
17.5°	5637.6	5643.3	5556.5	5419.5	5280.5	5176.3	5143.5	5019.9	4815.3	4583.7	4331.0
20°	5367.3	5394.4	5336.5	5214.9	5137.7	5066.3	5045.1	4940.9	4755.6	4527.8	4276.9
22.5°	5097.2	5122.2	5099.1	4996.8	4985.2	4942.8	4931.1	4855.9	4703.4	4493.1	4244.1
25°	4898.4	4921.5	4917.6	4828.8	4863.6	4861.7	4852.1	4815.3	4691.9	4493.1	4249.8
27.5°	4844.3	4852.1	4844.3	4763.3	4811.6	4850.1	4842.4	4836.6	4726.6	4549.1	4323.2
30°	5029.6	5018.0	4958.2	4794.2	4838.6	4892.6	4884.9	4888.7	4830.8	4695.8	4487.3
32.5°	5768.8	5716.7	5527.5	5066.3	4948.5	4977.5	4981.4	5045.1	5054.7	4921.5	4742.0
35°	6874.7	6816.8	6571.6	5795.8	5290.2	5189.8	5189.8	5286.3	5344.2	5245.8	5137.7
37.5°	8046.2	7982.5	7851.2	6807.1	6008.1	5558.4	5548.8	5616.3	5699.4	5722.5	5749.5
40°	9377.9	9310.4	9347.0	7942.0	7009.8	6197.2	6060.3	6012.0	6235.9	6384.4	6600.6
42.5°	10835.1	10804.2	10817.7	9206.1	8150.5	7152.6	6957.7	6708.7	6978.9	7243.3	7696.9
45°	12184.2	12211.2	12197.7	10559.1	9420.4	8318.3	8111.8	7629.4	7893.7	8347.3	9086.5
47.5°	13365.4	13253.4	13427.0	12037.5	10842.8	9623.0	9368.3	8721.7	8990.0	9549.7	10800.3
50°	14799.3	14783.9	14529.2	14009.9	12562.4	10933.5	10599.6	9850.8	10267.7	11045.4	12960.1
52.5°	16306.7	16026.8	15793.2	15544.4	14386.3	12276.8	11867.7	10976.0	11769.3	12747.7	15592.5
55°	16615.5	16490.0	16779.6	17198.4	16144.5	13672.2	13195.5	12386.8	13459.9	14693.2	18628.4
57.5°	17275.5	17273.6	17871.9	18618.8	17954.9	15152.6	14672.0	14091.0	15360.9	16922.4	21851.6
60°	17721.4	17846.8	18958.6	20408.0	19732.4	16862.5	16420.5	16057.7	17522.5	19414.0	24854.7
62.5°	17954.9	18124.7	19641.7	21133.7	22245.3	19709.3	19267.3	18744.2	20382.8	22146.9	26611.0
65°	16984.1	17317.9	19535.6	21760.9	24445.6	24323.9	24125.2	23206.5	23959.1	24306.5	25976.0
67.5°	14297.5	14639.1	17221.5	21176.1	26016.6	28774.6	28817.0	27247.9	26159.4	24491.8	21840.0
70°	10186.6	10454.9	12591.4	17754.1	24820.0	31683.0	31827.8	29110.3	25721.3	21720.3	15258.6
72.5°	4836.6	5000.7	7023.3	11554.9	19695.8	29029.3	29309.2	26732.6	21870.9	16080.9	8324.2
75°	1777.6	1827.7	2374.0	4915.8	11423.7	21407.7	21737.7	19163.0	14498.3	8005.7	3171.0
77.5°	1065.4	1098.1	1331.7	2074.7	4493.1	12236.2	12724.6	10422.0	6336.3	2980.0	1559.5
80°	745.0	768.1	955.3	1291.2	2123.0	4662.9	5097.2	4253.7	2524.4	1885.6	1134.9
82.5°	503.7	515.4	671.7	872.4	1410.9	1665.6	1796.8	1891.4	1702.3	1403.1	719.9
85°	330.0	341.6	455.5	575.1	897.4	860.8	880.0	1113.6	1242.9	953.4	399.5
87.5°	189.1	196.8	274.0	306.9	440.1	364.8	368.7	586.8	795.1	642.7	243.2
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°	4603.1	4603.1	4603.1	4603.1	4603.1	4603.1	4603.1	4603.1	4603.1	4603.1	4603.1
2.5°	4585.7	4560.6	4504.7	4469.9	4437.0	4429.4	4415.9	4413.9	4412.0	4412.0	4406.3
5°	4483.4	4440.9	4354.1	4305.8	4265.3	4261.5	4259.6	4269.2	4273.1	4276.9	4271.1
7.5°	4417.8	4359.9	4251.8	4182.3	4134.1	4122.5	4141.8	4186.2	4215.2	4226.7	4220.9
10°	4377.3	4305.8	4180.4	4105.1	4064.6	4058.9	4083.9	4136.0	4195.8	4219.0	4217.1
12.5°	4331.0	4249.8	4116.8	4037.6	4014.5	4026.0	4058.9	4107.0	4168.8	4205.5	4207.4
15°	4284.6	4190.0	4053.0	3983.6	3973.9	3989.3	4020.2	4056.9	4105.1	4141.8	4145.7
17.5°	4228.7	4130.3	3993.2	3921.8	3914.0	3921.8	3923.7	3943.0	3973.9	4008.6	4018.3
20°	4168.8	4068.5	3925.7	3854.3	3819.5	3788.6	3753.9	3757.7	3767.4	3802.1	3809.9
22.5°	4126.4	4026.0	3873.5	3775.1	3682.4	3589.8	3520.4	3510.7	3514.6	3543.5	3553.1
25°	4130.3	4024.1	3860.0	3690.2	3487.5	3338.9	3246.2	3230.9	3228.9	3250.1	3263.6
27.5°	4205.5	4099.4	3910.2	3603.3	3275.2	3055.2	2956.7	2945.2	2929.7	2935.6	2951.0
30°	4373.4	4275.0	4031.8	3514.6	3045.5	2777.3	2675.0	2663.5	2642.2	2632.6	2644.1
32.5°	4647.5	4566.5	4209.3	3429.6	2815.9	2539.9	2435.6	2410.6	2397.1	2385.5	2395.1
35°	5103.0	5068.2	4446.8	3337.0	2613.2	2356.6	2261.9	2223.4	2204.0	2225.3	2240.8
37.5°	5817.0	5836.3	4757.4	3192.2	2456.9	2234.9	2155.9	2111.5	2082.5	2099.8	2117.2
40°	6828.4	6841.9	5101.0	2987.6	2321.8	2163.5	2078.6	2038.1	1997.5	1966.7	1964.8
42.5°	8156.2	8019.2	5438.7	2765.8	2165.5	2119.1	2024.6	1974.4	1912.6	1827.7	1810.3
45°	9731.1	9250.5	5695.5	2510.9	1989.8	2065.1	1964.8	1895.2	1798.8	1706.2	1696.5
47.5°	11545.3	10572.6	5820.9	2246.5	1825.8	1986.0	1891.4	1781.4	1659.8	1613.5	1607.7
50°	13760.9	12141.7	5880.7	1989.8	1683.0	1881.7	1785.3	1656.0	1553.7	1544.0	1538.2
52.5°	16283.5	14029.3	5900.1	1779.4	1565.2	1746.7	1698.4	1573.0	1491.9	1499.6	1499.6
55°	18923.8	15978.6	5637.6	1627.0	1457.2	1607.7	1640.5	1540.2	1472.6	1503.4	1515.1
57.5°	21347.9	17705.9	4811.6	1509.3	1354.9	1501.6	1619.2	1571.0	1524.7	1650.1	1657.9
60°	23208.4	18726.9	3593.7	1403.1	1279.6	1464.9	1675.3	1688.8	1700.3	1999.5	2040.1
62.5°	23598.2	18387.2	2470.4	1320.1	1244.8	1495.8	1777.6	1779.4	1765.9	1974.4	1999.5
65°	21809.1	16239.1	1796.8	1273.8	1215.9	1551.7	1864.4	1823.8	1735.1	1893.4	1847.0
67.5°	17319.9	12234.4	1495.8	1239.1	1173.4	1547.8	1957.0	1864.4	1717.7	1854.7	1779.4
70°	11242.3	7397.8	1331.7	1210.2	1123.3	1474.5	2011.1	1860.5	1667.5	1725.4	1636.6
72.5°	5485.1	3308.0	1221.7	1167.7	1071.1	1372.3	2009.2	1825.8	1615.4	1611.6	1563.3
75°	2146.2	1515.1	1121.4	1104.0	982.3	1256.4	1955.1	1775.6	1553.7	1491.9	1474.5
77.5°	1256.4	1080.8	994.0	1009.3	876.3	1140.6	1876.0	1688.8	1468.8	1395.4	1376.1
80°	914.8	808.6	847.3	872.4	748.8	1024.8	1769.8	1582.6	1374.1	1410.9	1383.8
82.5°	586.8	521.1	687.1	712.2	623.4	907.2	1654.0	1470.7	1241.0	1127.1	1100.1
85°	299.1	330.0	511.5	542.4	480.6	745.0	1513.1	1322.1	1090.5	937.9	953.4
87.5°	167.9	225.8	326.2	364.8	339.7	573.3	1227.4	1090.5	889.8	723.7	636.9
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)