

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: P191583

Luminaire Tested: **GLEON-AF-05-LED-E1-T4W-1200**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191583  
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-05-LED-E1-T4W-1200  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 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: 33151.8 lumens  
Efficiency: N/A  
Efficacy: 103.6 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

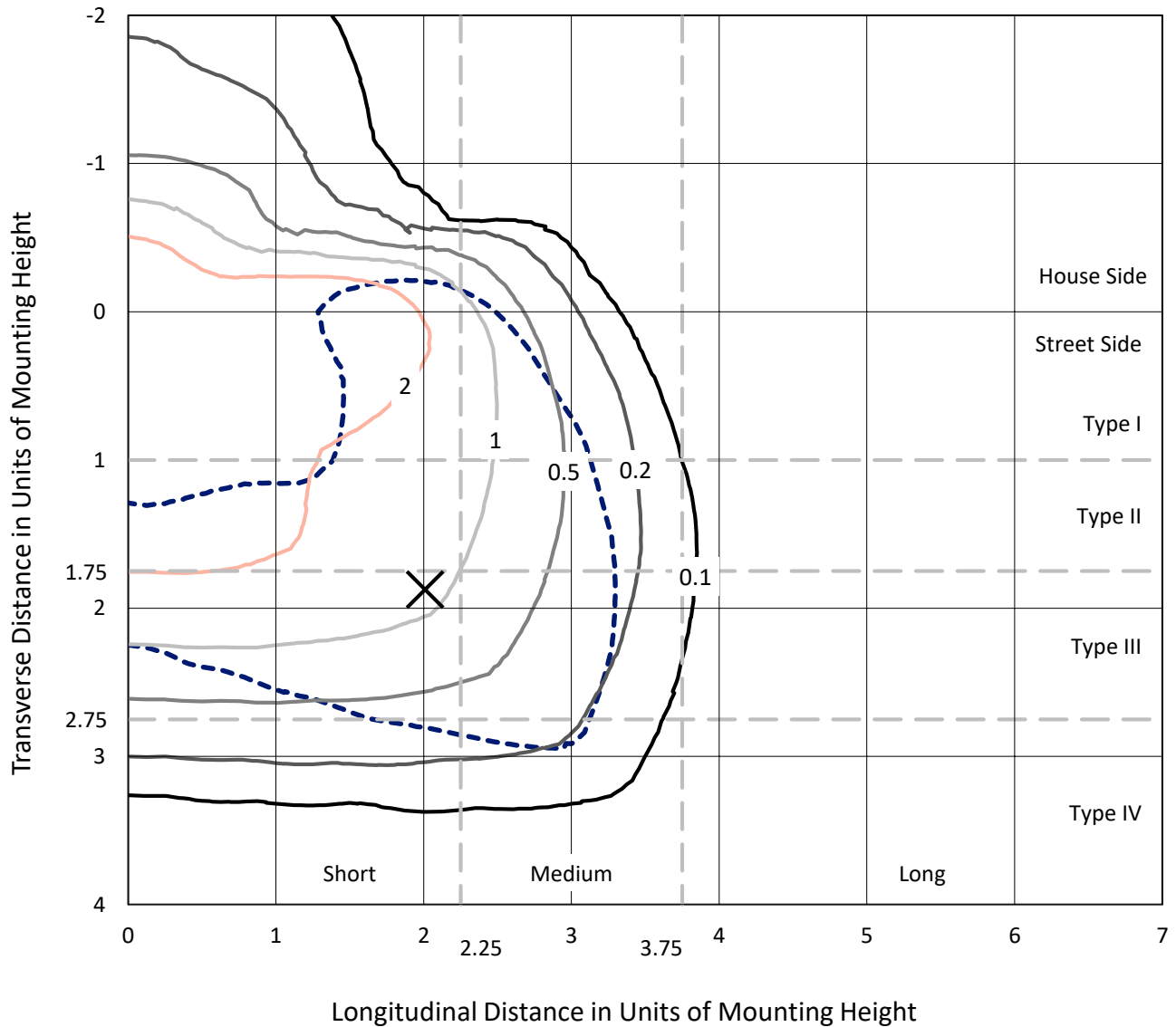
Input Watts (W): 320  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

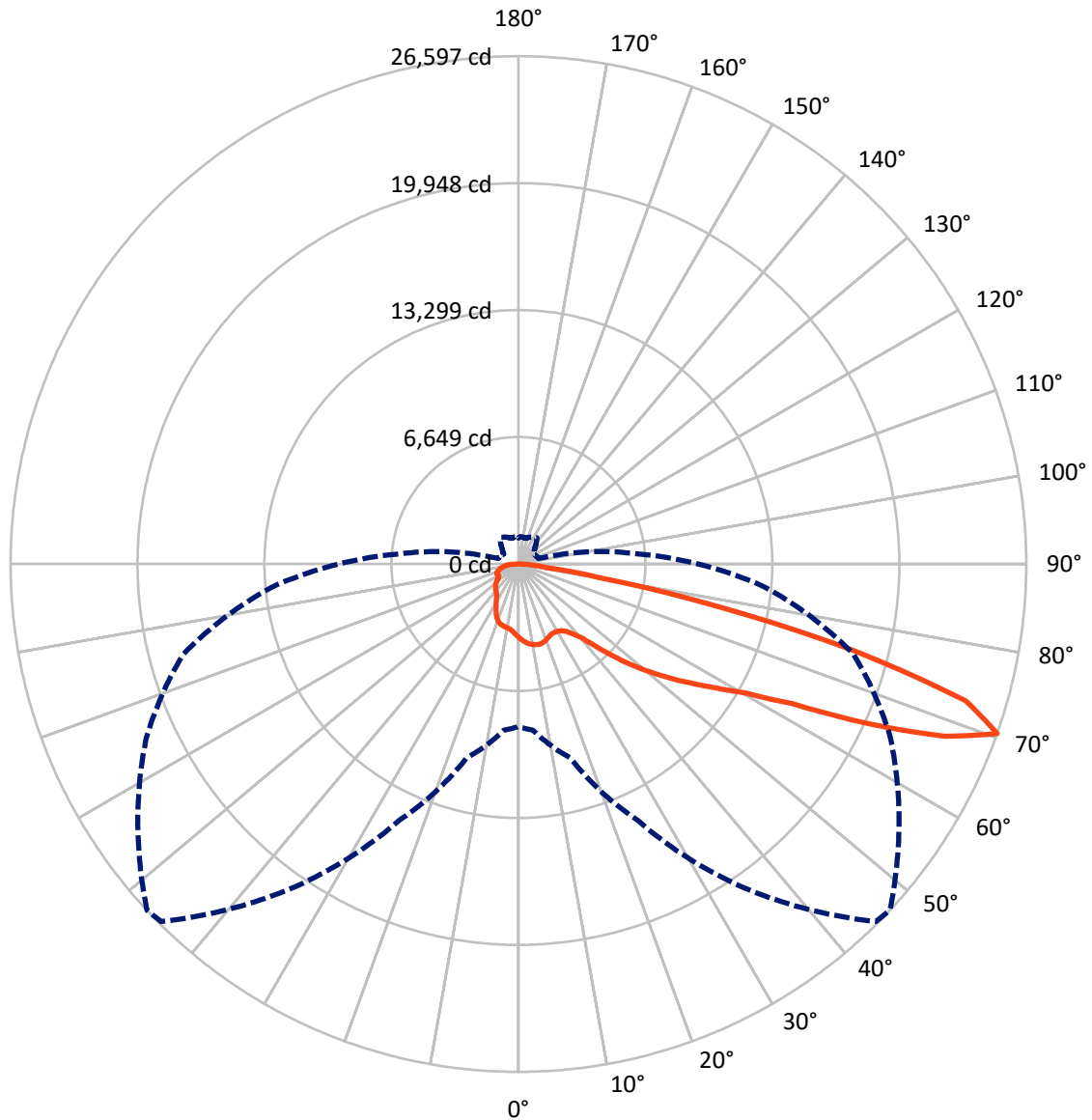
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.9 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
<b>House Side</b>	Lumens	6916.1	0.0	6916.1
	% Fixture	20.9	0.0	20.9
<b>Street Side</b>	Lumens	26235.7	0.0	26235.7
	% Fixture	79.1	0.0	79.1
<b>Total</b>	Lumens	33151.8	0.0	33151.8
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	368.6	1.1
10°-20°	1081.3	3.3
20°-30°	1596.8	4.8
30°-40°	2320.9	7.0
40°-50°	4176.8	12.6
50°-60°	7235.9	21.8
60°-70°	10327.7	31.2
70°-80°	5301.7	16.0
80°-90°	742.3	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°	33151.8	100.0
0°-180°	33151.8	100.0



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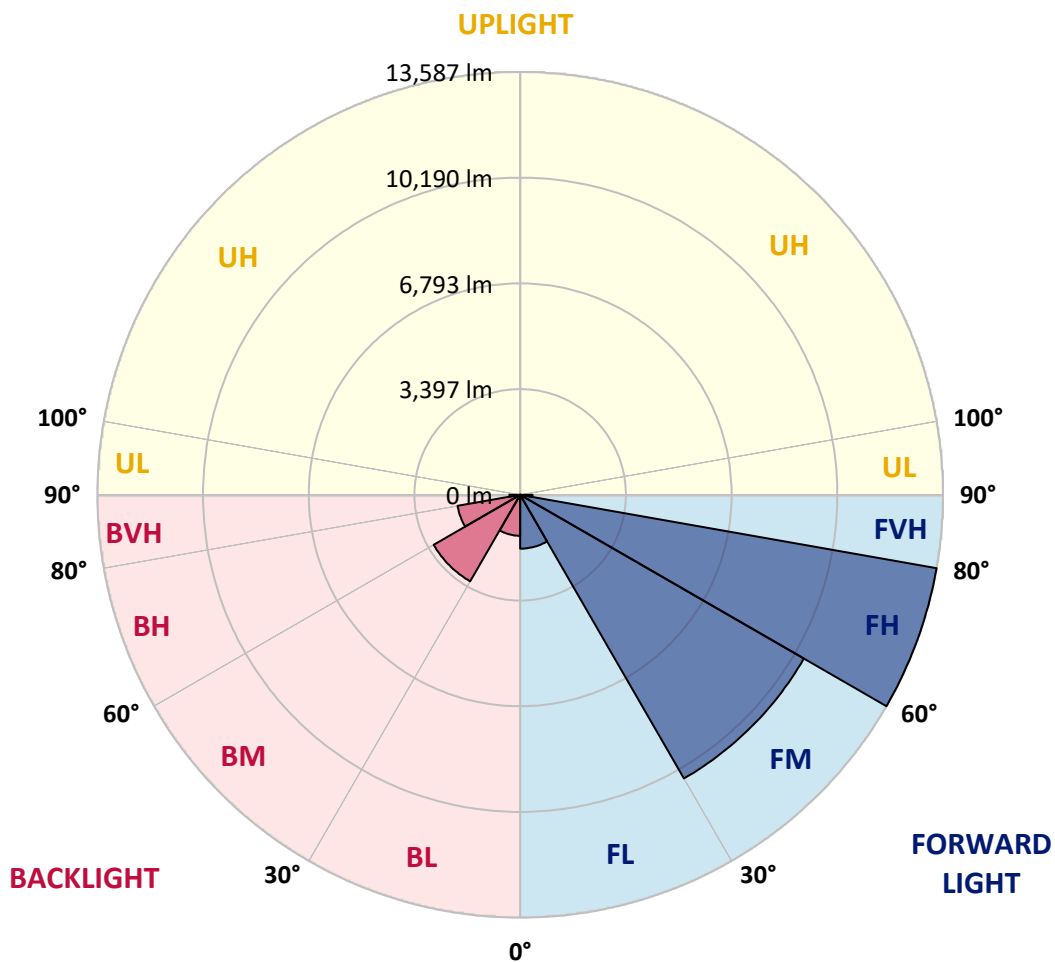
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1729.8	5.2			
FM	(30°-60°)	10523.3	31.7			
FH	(60°-80°)	13586.5	41.0			G5
FVH	(80°-90°)	396.1	1.2			G3/500
BL	(0°-30°)	1316.9	4.0	B3/2500		
BM	(30°-60°)	3210.2	9.7	B3/5000		
BH	(60°-80°)	2042.8	6.2	B3/2500		G3/2500
BVH	(80°-90°)	346.2	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°	3846.6	3846.6	3846.6	3846.6	3846.6	3846.6	3846.6	3846.6	3846.6	3846.6	3846.6
2.5°	4072.5	4064.4	4061.1	4054.7	4046.6	4006.3	3998.2	3969.3	3928.8	3887.0	3843.4
5°	4340.2	4338.5	4320.8	4288.5	4237.0	4148.3	4127.3	4056.3	3961.2	3869.2	3777.2
7.5°	4575.7	4561.1	4527.3	4462.7	4372.4	4251.5	4222.4	4124.0	3993.4	3867.6	3743.4
10°	4748.2	4740.1	4666.0	4577.3	4459.6	4325.6	4291.8	4182.1	4038.6	3878.9	3724.1
12.5°	4846.6	4830.5	4745.0	4638.6	4498.2	4367.6	4333.7	4222.4	4061.1	3878.9	3696.6
15°	4840.2	4828.8	4743.4	4627.2	4485.3	4370.9	4340.2	4228.9	4056.3	3862.8	3661.1
17.5°	4711.1	4716.0	4643.4	4528.9	4412.7	4325.6	4298.2	4195.0	4024.1	3830.5	3619.2
20°	4485.3	4507.9	4459.6	4357.9	4293.4	4233.7	4216.0	4128.9	3974.1	3783.7	3574.1
22.5°	4259.6	4280.5	4261.1	4175.7	4166.0	4130.5	4120.9	4057.9	3930.5	3754.7	3546.7
25°	4093.4	4112.8	4109.5	4035.3	4064.4	4062.8	4054.7	4024.1	3920.9	3754.7	3551.5
27.5°	4048.2	4054.7	4048.2	3980.5	4020.8	4053.0	4046.6	4041.8	3949.8	3801.5	3612.8
30°	4203.1	4193.4	4143.4	4006.3	4043.4	4088.5	4082.1	4085.4	4037.0	3924.0	3749.8
32.5°	4820.8	4777.3	4619.2	4233.7	4135.4	4159.5	4162.8	4216.0	4224.1	4112.8	3962.8
35°	5745.0	5696.6	5491.7	4843.4	4420.8	4336.9	4336.9	4417.6	4466.0	4383.8	4293.4
37.5°	6724.0	6670.8	6561.1	5688.5	5020.7	4645.0	4636.9	4693.4	4762.8	4782.1	4804.7
40°	7836.8	7780.4	7811.0	6636.9	5857.8	5178.9	5064.3	5024.0	5211.1	5335.3	5516.0
42.5°	9054.5	9028.7	9040.0	7693.3	6811.0	5977.2	5814.4	5606.3	5832.0	6053.0	6432.0
45°	10181.9	10204.4	10193.2	8823.9	7872.3	6951.4	6778.8	6375.5	6596.5	6975.6	7593.3
47.5°	11169.0	11075.4	11220.5	10059.3	9061.0	8041.6	7828.7	7288.4	7512.7	7980.3	9025.5
50°	12367.3	12354.4	12141.5	11707.7	10498.0	9136.8	8857.7	8232.0	8580.3	9230.3	10830.3
52.5°	13626.9	13393.1	13197.9	12989.8	12022.1	10259.3	9917.4	9172.3	9835.2	10652.8	13030.1
55°	13885.0	13780.2	14022.1	14372.0	13491.5	11425.4	11027.0	10351.2	11248.0	12278.6	15567.2
57.5°	14436.6	14435.0	14935.0	15559.2	15004.3	12662.5	12260.9	11775.4	12836.6	14141.5	18260.7
60°	14809.2	14914.0	15843.0	17054.2	16489.8	14091.5	13722.1	13418.9	14643.0	16223.6	20770.2
62.5°	15004.3	15146.2	16414.0	17660.6	18589.7	16470.4	16101.0	15663.9	17033.3	18507.4	22237.9
65°	14193.0	14472.1	16325.3	18184.9	20428.3	20326.7	20160.6	19392.9	20021.9	20312.2	21707.3
67.5°	11948.0	12233.5	14391.4	17696.1	21741.2	24045.9	24081.4	22770.2	21860.6	20467.0	18251.0
70°	8512.6	8736.8	10522.2	14836.6	20741.2	26476.5	26597.4	24326.6	21494.4	18150.9	12751.2
72.5°	4041.8	4178.9	5869.2	9656.1	16459.1	24258.9	24492.7	22339.5	18276.8	13438.2	6956.2
75°	1485.4	1527.4	1983.8	4108.0	9546.5	17889.7	18165.5	16014.0	12115.7	6690.1	2650.0
77.5°	890.3	917.7	1112.9	1733.8	3754.7	10225.4	10633.5	8709.4	5295.0	2490.3	1303.1
80°	622.6	641.9	798.3	1079.0	1774.1	3896.6	4259.6	3554.8	2109.6	1575.8	948.4
82.5°	420.9	430.7	561.3	729.1	1179.0	1391.9	1501.6	1580.6	1422.5	1172.5	601.6
85°	275.8	285.5	380.6	480.6	749.9	719.3	735.5	930.6	1038.7	796.8	333.9
87.5°	158.0	164.5	229.0	256.5	367.8	304.8	308.0	490.3	664.5	537.0	203.3
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°	3846.6	3846.6	3846.6	3846.6	3846.6	3846.6	3846.6	3846.6	3846.6	3846.6	3846.6
2.5°	3832.1	3811.2	3764.4	3735.3	3707.9	3701.4	3690.2	3688.6	3686.9	3686.9	3682.1
5°	3746.7	3711.2	3638.5	3598.2	3564.4	3561.2	3559.6	3567.6	3570.8	3574.1	3569.3
7.5°	3691.8	3643.4	3553.1	3495.0	3454.7	3445.0	3461.2	3498.3	3522.4	3532.1	3527.3
10°	3658.0	3598.2	3493.4	3430.6	3396.6	3391.8	3412.8	3456.3	3506.4	3525.7	3524.1
12.5°	3619.2	3551.5	3440.2	3374.1	3354.8	3364.4	3391.8	3432.1	3483.8	3514.3	3516.0
15°	3580.5	3501.5	3387.0	3328.9	3320.8	3333.8	3359.6	3390.2	3430.6	3461.2	3464.4
17.5°	3533.8	3451.5	3337.0	3277.3	3270.9	3277.3	3279.0	3295.0	3320.8	3349.9	3357.9
20°	3483.8	3399.9	3280.5	3220.9	3191.8	3166.0	3137.0	3140.3	3148.2	3177.3	3183.7
22.5°	3448.3	3364.4	3237.0	3154.7	3077.3	2999.9	2941.8	2933.7	2937.0	2961.1	2969.2
25°	3451.5	3362.7	3225.7	3083.8	2914.4	2790.2	2712.8	2699.9	2698.3	2716.0	2727.3
27.5°	3514.3	3425.7	3267.6	3011.2	2737.0	2553.2	2470.8	2461.2	2448.3	2453.1	2466.0
30°	3654.7	3572.5	3369.2	2937.0	2545.1	2320.9	2235.5	2225.7	2207.9	2200.0	2209.6
32.5°	3883.7	3816.0	3517.6	2866.0	2353.1	2122.5	2035.4	2014.4	2003.1	1993.5	2001.5
35°	4264.4	4235.3	3716.0	2788.6	2183.8	1969.3	1890.2	1858.0	1841.8	1859.6	1872.5
37.5°	4861.2	4877.2	3975.7	2667.7	2053.2	1867.7	1801.5	1764.5	1740.2	1754.8	1769.3
40°	5706.2	5717.6	4262.7	2496.7	1940.2	1808.0	1737.1	1703.2	1669.3	1643.5	1641.8
42.5°	6815.9	6701.4	4545.0	2311.3	1809.6	1770.9	1691.9	1649.9	1598.4	1527.4	1512.8
45°	8131.9	7730.3	4759.5	2098.3	1662.8	1725.7	1641.8	1583.8	1503.1	1425.8	1417.7
47.5°	9648.1	8835.1	4864.3	1877.3	1525.7	1659.6	1580.6	1488.7	1387.0	1348.4	1343.5
50°	11499.6	10146.4	4914.4	1662.8	1406.4	1572.5	1491.9	1383.8	1298.3	1290.2	1285.4
52.5°	13607.6	11723.8	4930.5	1487.1	1308.0	1459.6	1419.3	1314.5	1246.8	1253.2	1253.2
55°	15814.0	13352.8	4711.1	1359.6	1217.7	1343.5	1371.0	1287.1	1230.6	1256.4	1266.1
57.5°	17839.6	14796.3	4020.8	1261.2	1132.2	1254.8	1353.2	1312.9	1274.2	1378.9	1385.5
60°	19394.5	15649.4	3003.1	1172.5	1069.3	1224.2	1399.9	1411.3	1420.9	1670.9	1704.7
62.5°	19720.2	15365.6	2064.4	1103.2	1040.2	1249.9	1485.4	1487.1	1475.7	1649.9	1670.9
65°	18225.2	13570.5	1501.6	1064.5	1016.1	1296.7	1558.1	1524.1	1449.9	1582.2	1543.5
67.5°	14473.7	10223.9	1249.9	1035.4	980.6	1293.5	1635.4	1558.1	1435.4	1550.0	1487.1
70°	9394.9	6182.0	1112.9	1011.3	938.7	1232.2	1680.6	1554.8	1393.5	1441.8	1367.7
72.5°	4583.7	2764.4	1020.9	975.8	895.1	1146.7	1679.0	1525.7	1350.0	1346.7	1306.4
75°	1793.4	1266.1	937.0	922.6	820.9	1050.0	1633.9	1483.8	1298.3	1246.8	1232.2
77.5°	1050.0	903.2	830.6	843.5	732.2	953.2	1567.7	1411.3	1227.3	1166.1	1150.0
80°	764.5	675.8	708.1	729.1	625.7	856.4	1479.0	1322.6	1148.4	1179.0	1156.4
82.5°	490.3	435.5	574.2	595.2	521.0	758.0	1382.2	1229.0	1037.1	941.9	919.3
85°	250.0	275.8	427.4	453.2	401.6	622.6	1264.5	1104.8	911.2	783.9	796.8
87.5°	140.3	188.7	272.6	304.8	283.9	479.0	1025.8	911.2	743.5	604.8	532.2
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)