

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: P269758

Luminaire Tested: **GLEON-AF-10-LED-E1-T4W-7027-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P269758  
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-7027-600  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(10) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 33490.1 lumens  
Efficiency: N/A  
Efficacy: 103.7 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): 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

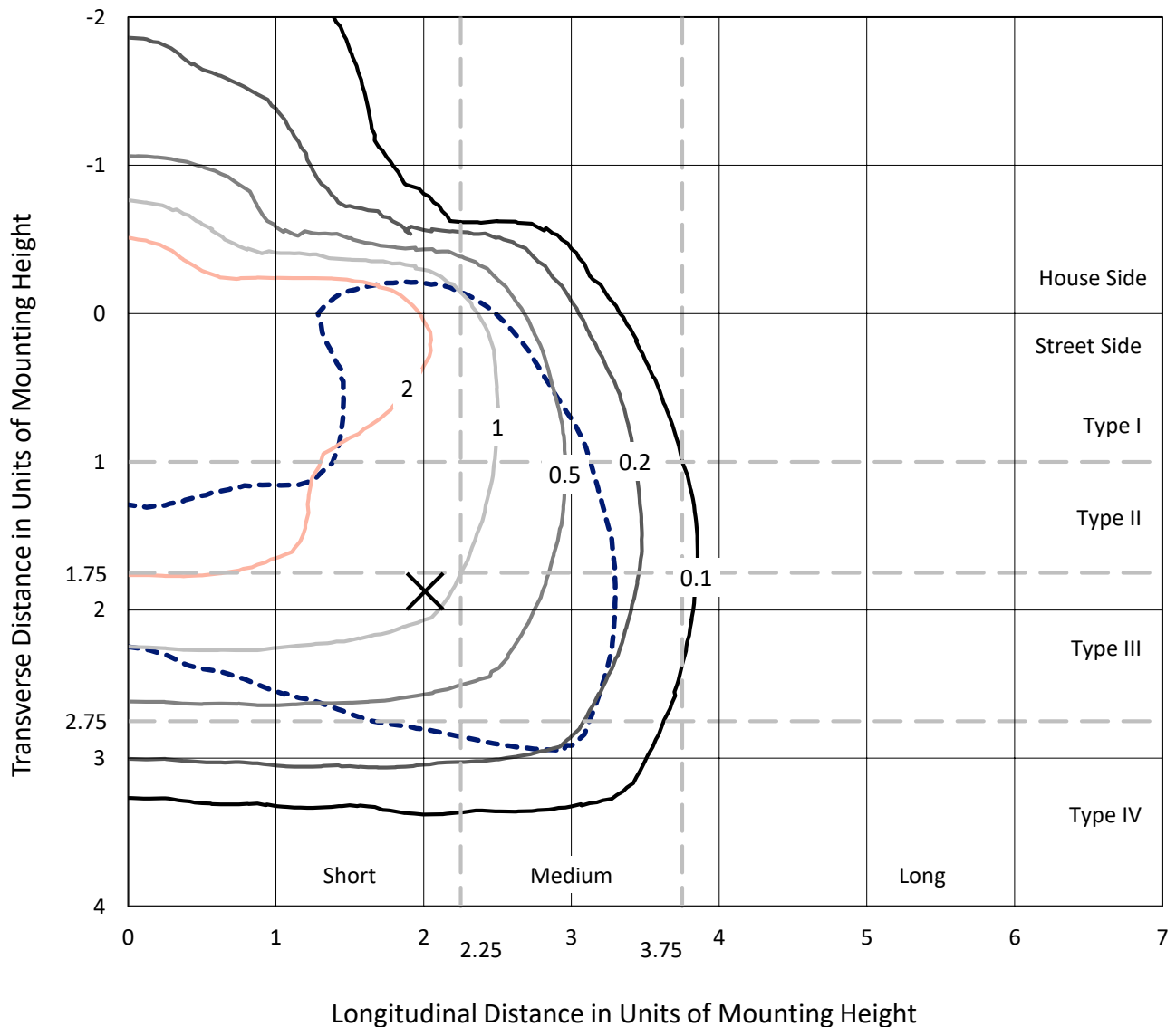


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

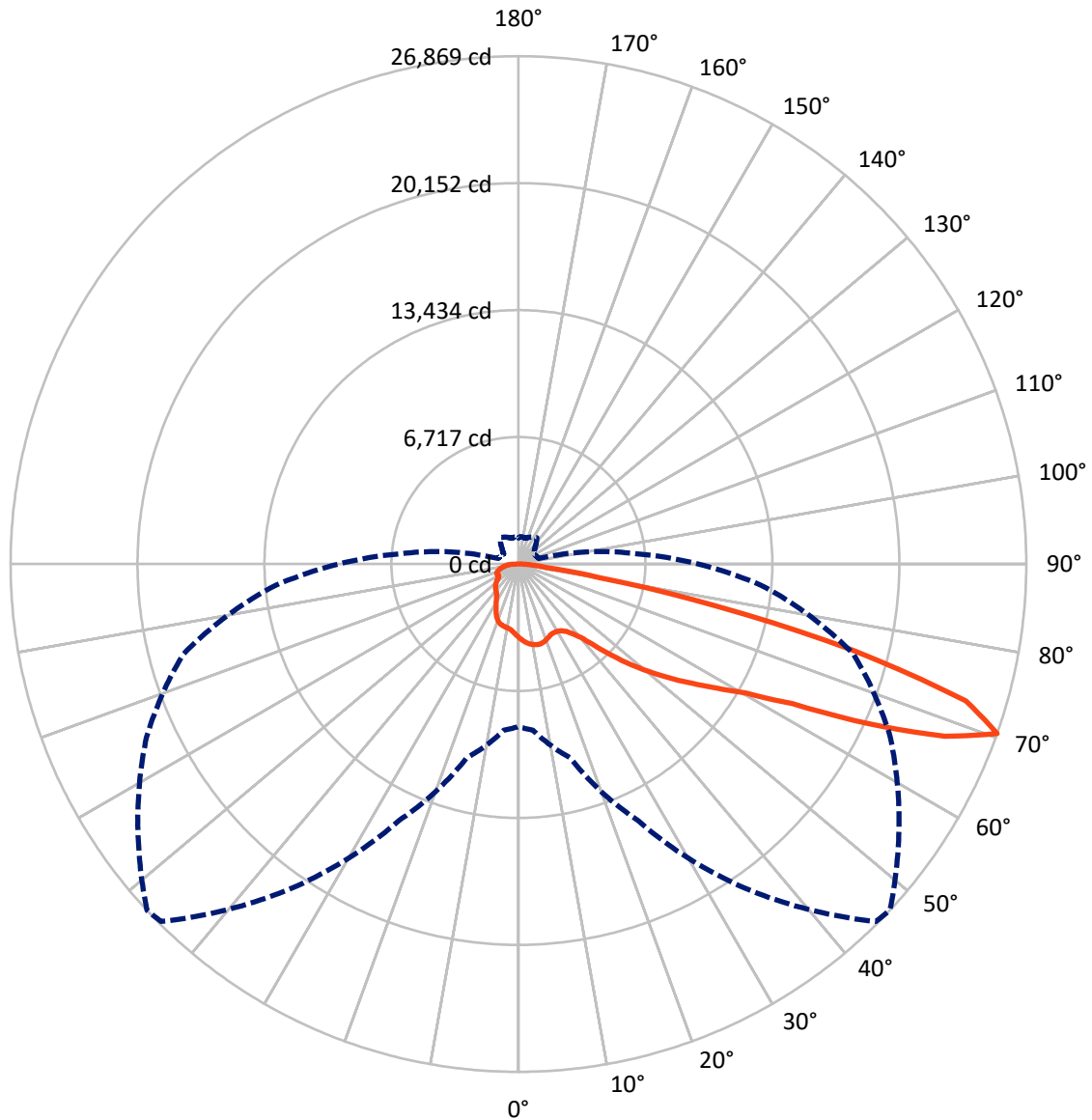


Based on 30 foot mounting height. Maximum calculated value = 5 fc  
 Type IV - Short - Semi-Cutoff

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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	6986.7	0.0	6986.7
	% Fixture	20.9	0.0	20.9
<b>Street Side</b>	Lumens	26503.4	0.0	26503.4
	% Fixture	79.1	0.0	79.1
<b>Total</b>	Lumens	33490.1	0.0	33490.1
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	372.3	1.1
10°-20°	1092.3	3.3
20°-30°	1613.1	4.8
30°-40°	2344.6	7.0
40°-50°	4219.4	12.6
50°-60°	7309.7	21.8
60°-70°	10433.1	31.2
70°-80°	5355.8	16.0
80°-90°	749.8	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°	33490.1	100.0
0°-180°	33490.1	100.0



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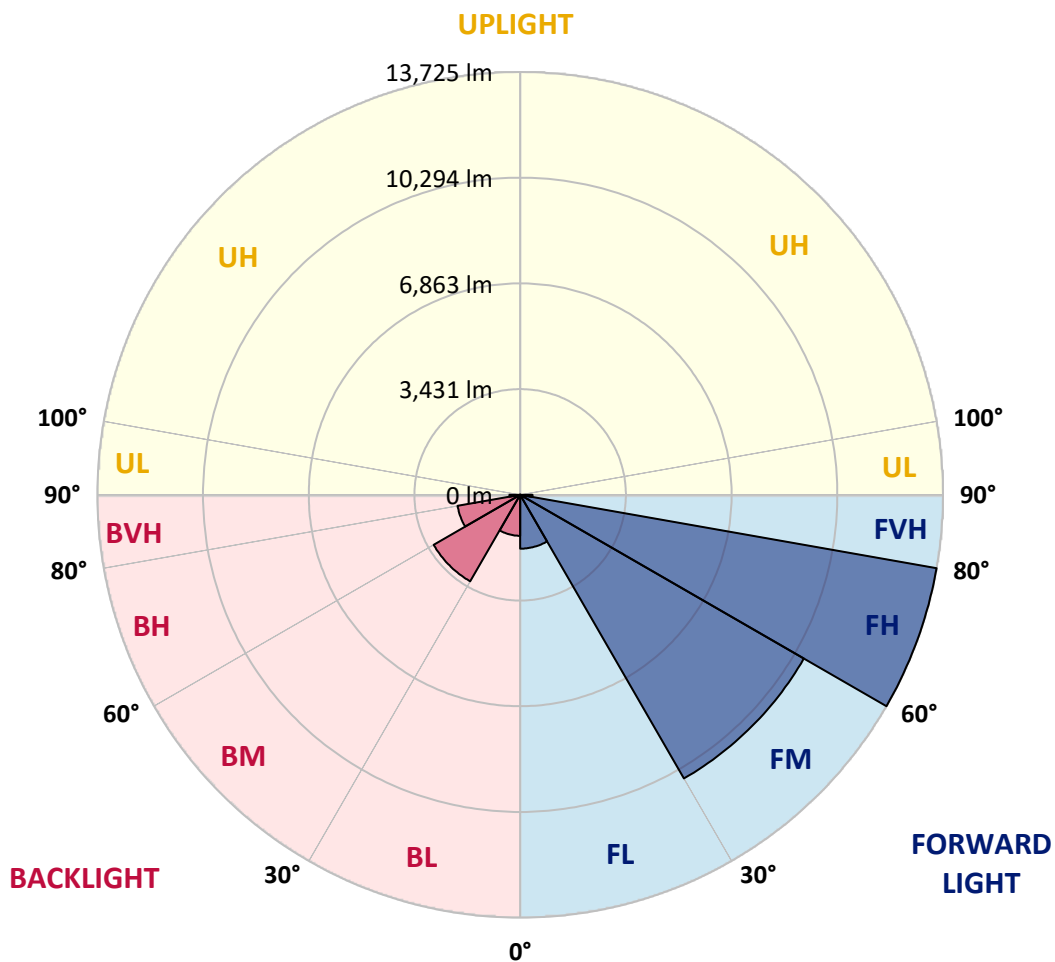
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1747.4	5.2			
FM	(30°-60°)	10630.7	31.7			
FH	(60°-80°)	13725.2	41.0			G5
FVH	(80°-90°)	400.1	1.2			G3/500
BL	(0°-30°)	1330.3	4.0	B3/2500		
BM	(30°-60°)	3243.0	9.7	B3/5000		
BH	(60°-80°)	2063.7	6.2	B3/2500		G3/2500
BVH	(80°-90°)	349.7	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°	3885.9	3885.9	3885.9	3885.9	3885.9	3885.9	3885.9	3885.9	3885.9	3885.9	3885.9
2.5°	4114.0	4105.9	4102.6	4096.1	4087.9	4047.3	4039.0	4009.8	3969.0	3926.6	3882.7
5°	4384.4	4382.8	4365.0	4332.3	4280.2	4190.6	4169.5	4097.7	4001.6	3908.7	3815.8
7.5°	4622.4	4607.6	4573.5	4508.4	4417.1	4294.8	4265.5	4166.1	4034.2	3907.1	3781.7
10°	4796.7	4788.5	4713.5	4623.9	4505.0	4369.7	4335.6	4224.8	4079.8	3918.4	3762.1
12.5°	4896.0	4879.8	4793.4	4685.9	4544.2	4412.1	4377.9	4265.5	4102.6	3918.4	3734.3
15°	4889.6	4878.2	4791.7	4674.5	4531.1	4415.3	4384.4	4272.0	4097.7	3902.1	3698.5
17.5°	4759.2	4764.2	4690.8	4575.1	4457.7	4369.7	4342.0	4237.8	4065.1	3869.5	3656.1
20°	4531.1	4553.9	4505.0	4402.4	4337.1	4276.9	4259.0	4171.0	4014.6	3822.4	3610.6
22.5°	4303.1	4324.3	4304.6	4218.4	4208.5	4172.6	4162.8	4099.3	3970.6	3793.1	3582.8
25°	4135.2	4154.8	4151.4	4076.5	4105.9	4104.3	4096.1	4065.1	3960.8	3793.1	3587.7
27.5°	4089.5	4096.1	4089.5	4021.2	4061.9	4094.5	4087.9	4083.1	3990.2	3840.3	3649.6
30°	4246.0	4236.1	4185.7	4047.3	4084.7	4130.2	4123.8	4127.1	4078.1	3964.1	3788.2
32.5°	4870.0	4826.1	4666.3	4276.9	4177.6	4202.0	4205.2	4259.0	4267.2	4154.8	4003.1
35°	5803.6	5754.7	5547.8	4892.8	4466.0	4381.3	4381.3	4462.7	4511.6	4428.5	4337.1
37.5°	6792.5	6738.8	6628.1	5746.5	5072.0	4692.3	4684.2	4741.3	4811.3	4830.8	4853.7
40°	7916.9	7859.8	7890.7	6704.6	5917.7	5231.6	5116.0	5075.2	5264.2	5389.7	5572.2
42.5°	9146.9	9120.9	9132.3	7771.7	6880.6	6038.1	5873.7	5663.5	5891.5	6114.9	6497.7
45°	10285.9	10308.6	10297.2	8913.9	7952.6	7022.3	6848.0	6440.7	6663.8	7046.8	7670.7
47.5°	11282.9	11188.4	11335.2	10161.9	9153.4	8123.7	7908.7	7362.9	7589.3	8061.7	9117.5
50°	12493.4	12480.5	12265.4	11827.2	10605.2	9230.1	8948.1	8316.0	8667.9	9324.5	10940.7
52.5°	13765.9	13529.7	13332.6	13122.4	12144.8	10364.0	10018.5	9265.8	9935.6	10761.5	13163.1
55°	14026.8	13920.8	14165.3	14518.8	13629.2	11542.1	11139.5	10456.9	11362.8	12403.8	15726.1
57.5°	14584.0	14582.2	15087.4	15718.0	15157.5	12791.7	12386.0	11895.5	12967.7	14285.7	18447.1
60°	14960.4	15066.3	16004.7	17228.2	16658.0	14235.3	13862.1	13555.9	14792.5	16389.1	20982.3
62.5°	15157.5	15300.8	16581.5	17840.9	18779.3	16638.4	16265.4	15823.9	17207.2	18696.2	22464.9
65°	14337.8	14619.7	16491.9	18370.3	20636.9	20534.1	20366.4	19590.7	20226.1	20519.4	21928.9
67.5°	12069.8	12358.3	14538.3	17876.7	21963.0	24291.3	24327.2	23002.5	22083.7	20675.8	18437.3
70°	8599.5	8825.9	10629.6	14988.0	20952.8	26746.7	26868.8	24574.8	21713.8	18336.3	12881.2
72.5°	4083.1	4221.6	5929.1	9754.6	16627.1	24506.4	24742.6	22567.5	18463.4	13575.4	7027.3
75°	1500.6	1543.0	2004.1	4149.8	9643.8	18072.3	18350.8	16177.3	12239.3	6758.4	2676.9
77.5°	899.4	927.1	1124.1	1751.5	3793.1	10329.8	10742.0	8798.3	5349.0	2515.7	1316.5
80°	629.0	648.4	806.5	1090.1	1792.3	3936.5	4303.1	3591.0	2131.0	1591.8	958.0
82.5°	425.3	435.0	567.0	736.4	1191.1	1406.0	1516.9	1596.6	1437.1	1184.5	607.8
85°	278.7	288.4	384.6	485.5	757.6	726.6	743.0	940.0	1049.3	804.9	337.3
87.5°	159.7	166.1	231.4	259.0	371.4	307.8	311.3	495.3	671.3	542.5	205.4
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°	3885.9	3885.9	3885.9	3885.9	3885.9	3885.9	3885.9	3885.9	3885.9	3885.9	3885.9
2.5°	3871.2	3850.0	3802.9	3773.5	3745.8	3739.3	3727.8	3726.2	3724.6	3724.6	3719.7
5°	3784.9	3749.0	3675.8	3635.0	3600.8	3597.5	3595.8	3604.0	3607.2	3610.6	3605.6
7.5°	3729.5	3680.5	3589.4	3530.7	3489.9	3480.3	3496.6	3533.9	3558.4	3568.2	3563.2
10°	3695.3	3635.0	3529.1	3465.5	3431.3	3426.4	3447.7	3491.6	3542.0	3561.7	3560.1
12.5°	3656.1	3587.7	3475.4	3408.4	3388.9	3398.7	3426.4	3467.2	3519.3	3550.2	3551.9
15°	3617.0	3537.3	3421.6	3362.9	3354.7	3367.7	3393.8	3424.8	3465.5	3496.6	3499.7
17.5°	3569.9	3486.7	3371.0	3310.8	3304.2	3310.8	3312.4	3328.7	3354.7	3384.1	3392.2
20°	3519.3	3434.6	3313.9	3253.8	3224.3	3198.3	3169.0	3172.3	3180.4	3209.7	3216.2
22.5°	3483.4	3398.7	3270.0	3186.9	3108.8	3030.5	2971.9	2963.7	2966.9	2991.4	2999.5
25°	3486.7	3397.1	3258.6	3115.2	2944.1	2818.7	2740.5	2727.4	2725.8	2743.8	2755.1
27.5°	3550.2	3460.6	3301.0	3041.9	2765.0	2579.3	2496.1	2486.2	2473.4	2478.2	2491.2
30°	3692.0	3608.9	3403.6	2966.9	2571.0	2344.5	2258.2	2248.5	2230.5	2222.3	2232.2
32.5°	3923.3	3854.9	3553.5	2895.2	2377.2	2144.2	2056.2	2035.0	2023.6	2013.8	2021.9
35°	4307.9	4278.5	3753.9	2817.1	2206.1	1989.3	1909.5	1877.0	1860.7	1878.5	1891.7
37.5°	4910.8	4927.1	4016.2	2694.8	2074.0	1886.7	1820.0	1782.4	1758.1	1772.6	1787.4
40°	5764.5	5775.9	4306.3	2522.3	1960.0	1826.4	1754.7	1720.6	1686.3	1660.2	1658.6
42.5°	6885.5	6769.7	4591.3	2334.8	1828.1	1789.0	1709.1	1666.7	1614.7	1543.0	1528.2
45°	8215.0	7809.2	4808.1	2119.7	1679.8	1743.4	1658.6	1600.1	1518.6	1440.3	1432.2
47.5°	9746.5	8925.3	4914.0	1896.5	1541.3	1676.5	1596.6	1503.9	1401.1	1362.1	1357.2
50°	11616.9	10250.0	4964.6	1679.8	1420.8	1588.6	1507.0	1397.9	1311.5	1303.4	1298.6
52.5°	13746.5	11843.4	4980.8	1502.2	1321.3	1474.5	1433.8	1327.9	1259.5	1266.0	1266.0
55°	15975.4	13488.9	4759.2	1373.5	1230.0	1357.2	1384.8	1300.1	1243.2	1269.2	1278.9
57.5°	18021.7	14947.3	4061.9	1274.2	1143.8	1267.6	1367.0	1326.3	1287.1	1393.0	1399.6
60°	19592.5	15809.1	3033.8	1184.5	1080.2	1236.6	1414.2	1425.6	1435.4	1687.9	1722.2
62.5°	19921.5	15522.4	2085.5	1114.4	1050.8	1262.7	1500.6	1502.2	1490.7	1666.7	1687.9
65°	18411.1	13708.9	1516.9	1075.4	1026.5	1310.0	1573.9	1539.7	1464.7	1598.4	1559.3
67.5°	14621.4	10328.2	1262.7	1046.0	990.7	1306.8	1652.2	1573.9	1450.0	1565.7	1502.2
70°	9490.8	6245.1	1124.1	1021.6	948.3	1244.8	1697.7	1570.6	1407.7	1456.6	1381.7
72.5°	4630.6	2792.7	1031.3	985.7	904.2	1158.5	1696.1	1541.3	1363.7	1360.5	1319.7
75°	1811.8	1278.9	946.6	931.9	829.3	1060.7	1650.5	1498.9	1311.5	1259.5	1244.8
77.5°	1060.7	912.4	839.0	852.1	739.8	963.0	1583.7	1425.6	1239.9	1177.9	1161.7
80°	772.4	682.7	715.3	736.4	632.1	865.2	1494.2	1336.0	1160.2	1191.1	1168.2
82.5°	495.3	439.9	580.0	601.2	526.2	765.7	1396.3	1241.5	1047.7	951.6	928.7
85°	252.6	278.7	431.7	457.9	405.8	629.0	1277.4	1116.1	920.6	791.9	804.9
87.5°	141.8	190.6	275.3	307.8	286.7	483.8	1036.3	920.6	751.2	610.9	537.6
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)