

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: P194098

Luminaire Tested: **GLEON-AF-10-LED-E1-T4W-8030-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P194098  
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-8030-600  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(10) 80 CRI, 3000K, 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: 31454 lumens  
Efficiency: N/A  
Efficacy: 97.4 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

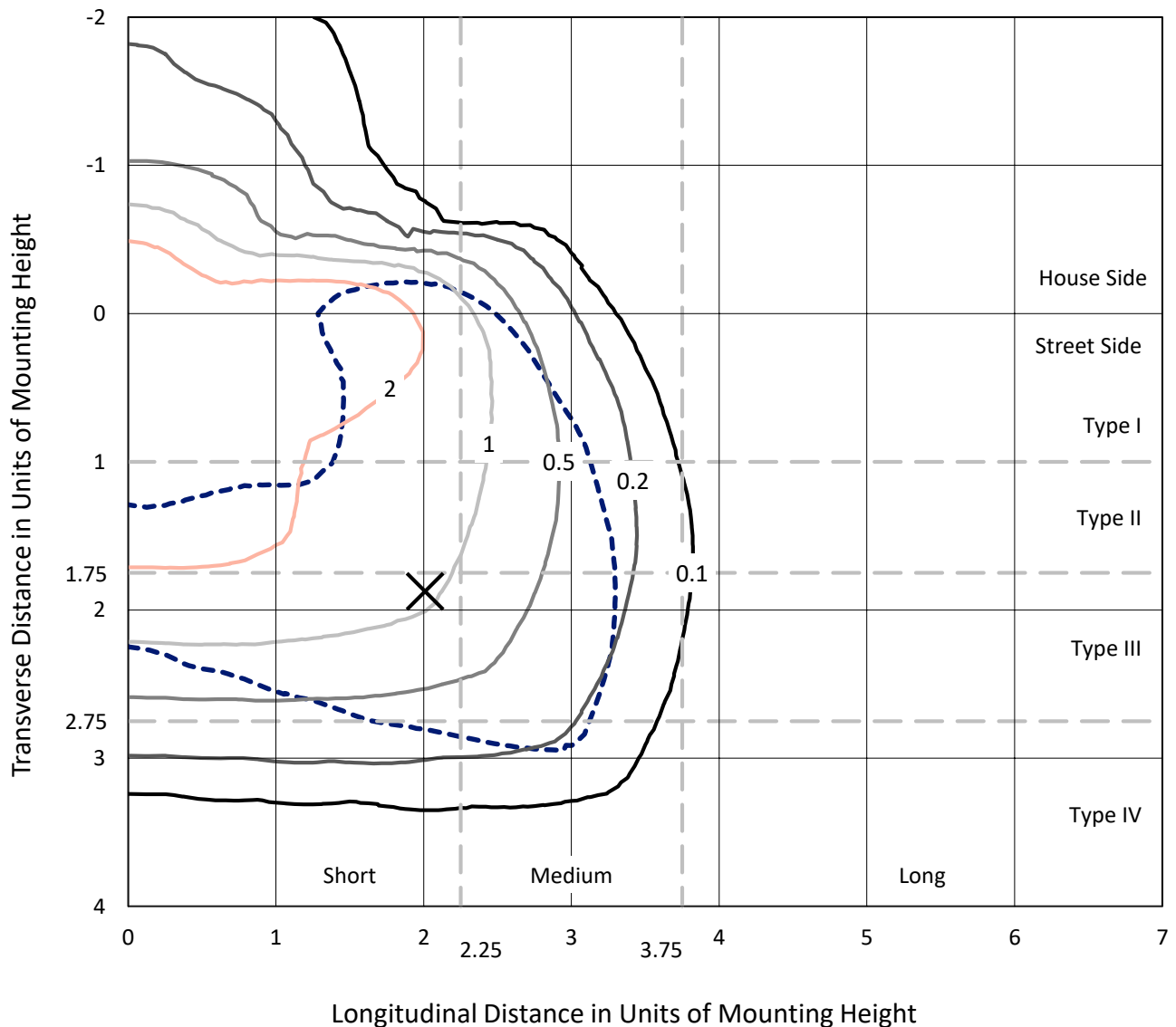


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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

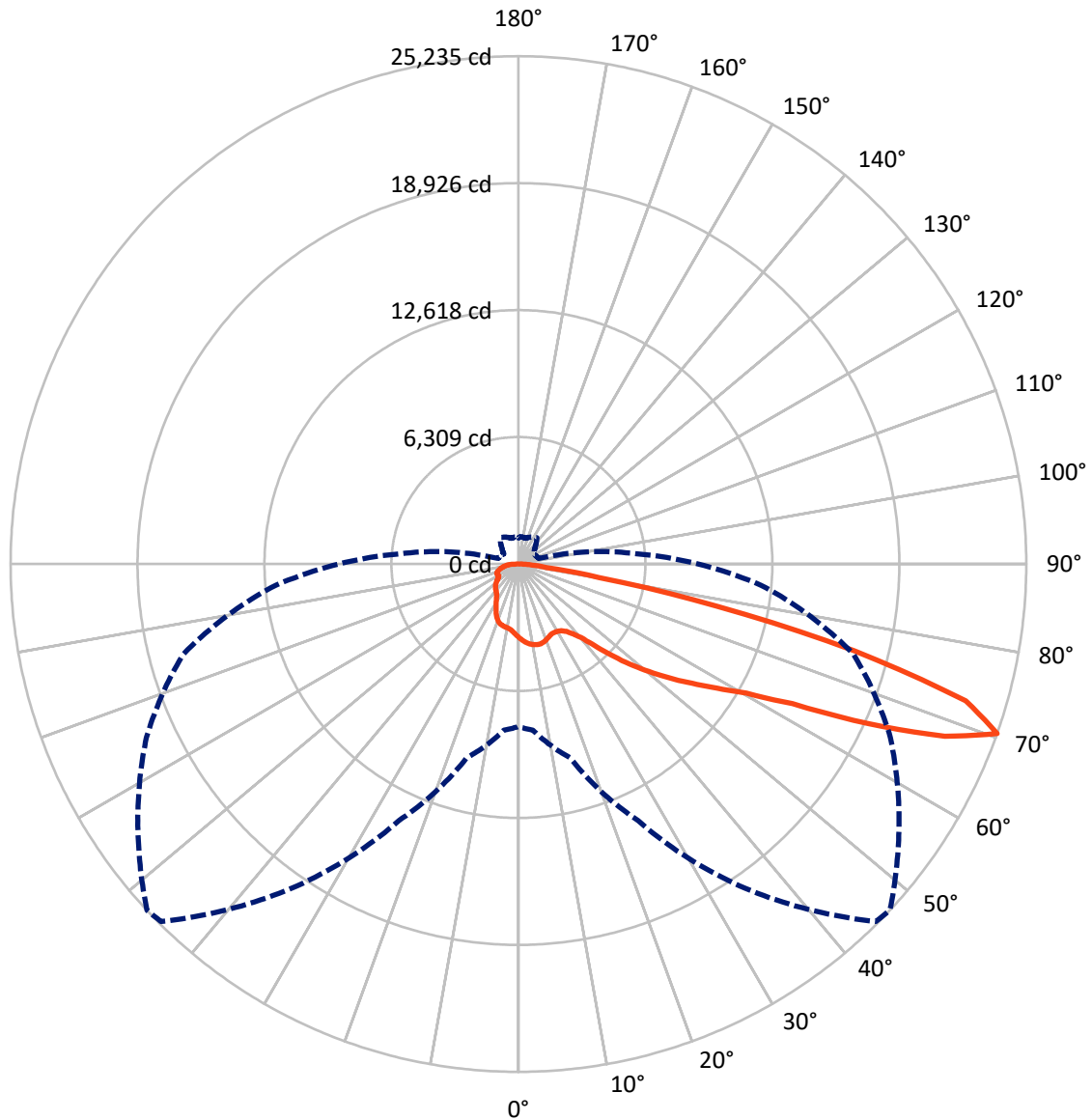


Based on 30 foot mounting height. Maximum calculated value = 4.7 fc  
 Type IV - Short - Semi-Cutoff

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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	6561.9	0.0	6561.9
	% Fixture	20.9	0.0	20.9
<b>Street Side</b>	Lumens	24892.1	0.0	24892.1
	% Fixture	79.1	0.0	79.1
<b>Total</b>	Lumens	31454.0	0.0	31454.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	349.7	1.1
10°-20°	1025.9	3.3
20°-30°	1515.0	4.8
30°-40°	2202.0	7.0
40°-50°	3962.9	12.6
50°-60°	6865.3	21.8
60°-70°	9798.8	31.2
70°-80°	5030.1	16.0
80°-90°	704.2	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°	31454.0	100.0
0°-180°	31454.0	100.0

**Coefficient of Utilization**



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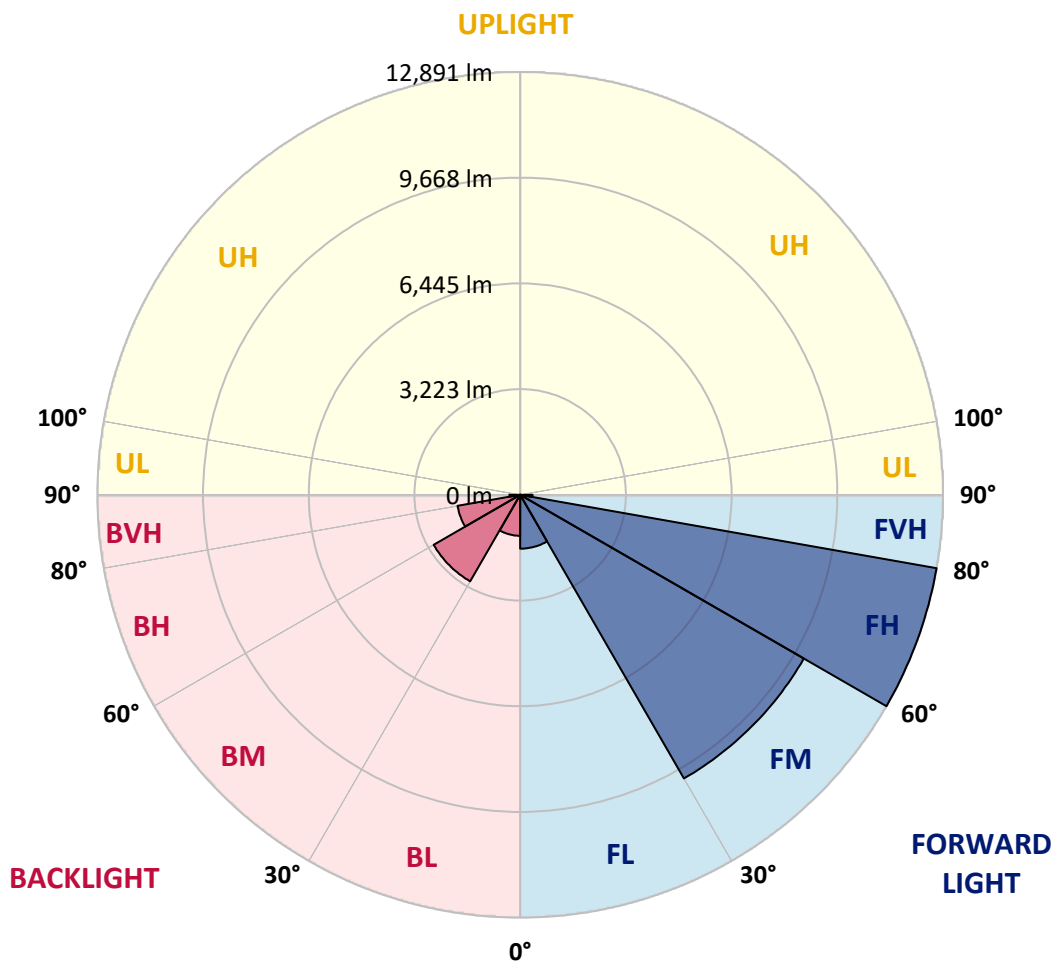
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1641.2	5.2			
FM	(30°-60°)	9984.4	31.7			
FH	(60°-80°)	12890.7	41.0			G5
FVH	(80°-90°)	375.8	1.2			G3/500
BL	(0°-30°)	1249.4	4.0	B3/2500		
BM	(30°-60°)	3045.8	9.7	B3/5000		
BH	(60°-80°)	1938.2	6.2	B3/2500		G3/2500
BVH	(80°-90°)	328.4	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°	3649.6	3649.6	3649.6	3649.6	3649.6	3649.6	3649.6	3649.6	3649.6	3649.6	3649.6
2.5°	3863.9	3856.2	3853.2	3847.0	3839.4	3801.1	3793.5	3765.9	3727.7	3687.9	3646.6
5°	4117.9	4116.4	4099.5	4068.9	4020.0	3935.8	3915.9	3848.6	3758.3	3671.1	3583.8
7.5°	4341.3	4327.5	4295.4	4234.2	4148.5	4033.7	4006.2	3912.8	3788.9	3669.5	3551.7
10°	4505.1	4497.4	4427.0	4342.8	4231.1	4104.1	4072.0	3967.9	3831.7	3680.2	3533.3
12.5°	4598.4	4583.1	4502.0	4401.0	4267.9	4143.9	4111.8	4006.2	3853.2	3680.2	3507.3
15°	4592.3	4581.6	4500.5	4390.3	4255.6	4147.0	4117.9	4012.3	3848.6	3664.9	3473.7
17.5°	4469.9	4474.4	4405.6	4296.9	4186.8	4104.1	4078.1	3980.2	3818.0	3634.3	3433.9
20°	4255.6	4277.0	4231.1	4134.7	4073.5	4016.9	4000.1	3917.4	3770.5	3590.0	3391.0
22.5°	4041.4	4061.3	4042.9	3961.8	3952.6	3919.0	3909.8	3850.1	3729.2	3562.4	3365.0
25°	3883.8	3902.1	3899.1	3828.7	3856.2	3854.7	3847.0	3818.0	3720.0	3562.4	3369.6
27.5°	3840.9	3847.0	3840.9	3776.7	3814.9	3845.5	3839.4	3834.8	3747.6	3606.8	3427.8
30°	3987.8	3978.6	3931.2	3801.1	3836.3	3879.2	3873.1	3876.1	3830.2	3723.1	3557.8
32.5°	4573.9	4532.6	4382.6	4016.9	3923.6	3946.5	3949.6	4000.1	4007.7	3902.1	3759.8
35°	5450.7	5404.8	5210.5	4595.3	4194.4	4114.8	4114.8	4191.4	4237.3	4159.2	4073.5
37.5°	6379.6	6329.1	6225.1	5397.2	4763.7	4407.1	4399.5	4453.0	4518.8	4537.2	4558.6
40°	7435.5	7381.9	7411.0	6297.0	5557.9	4913.6	4805.0	4766.7	4944.2	5062.1	5233.5
42.5°	8590.8	8566.3	8577.0	7299.3	6462.2	5671.1	5516.5	5319.1	5533.4	5743.0	6102.6
45°	9660.5	9681.9	9671.2	8372.0	7469.1	6595.4	6431.6	6049.1	6258.7	6618.3	7204.4
47.5°	10597.0	10508.2	10645.9	9544.2	8596.9	7629.8	7427.8	6915.2	7127.9	7571.7	8563.3
50°	11733.9	11721.7	11519.7	11108.1	9960.4	8668.9	8404.1	7810.4	8140.9	8757.6	10275.6
52.5°	12929.1	12707.2	12522.0	12324.6	11406.5	9733.9	9409.5	8702.5	9331.5	10107.3	12362.9
55°	13173.9	13074.4	13304.0	13636.0	12800.5	10840.3	10462.3	9821.1	10672.0	11649.8	14770.0
57.5°	13697.3	13695.7	14170.1	14762.3	14235.9	12014.0	11633.0	11172.3	12179.2	13417.2	17325.5
60°	14050.7	14150.2	15031.6	16180.8	15645.3	13369.8	13019.4	12731.7	13893.1	15392.8	19706.5
62.5°	14235.9	14370.6	15573.3	16756.2	17637.6	15626.9	15276.5	14861.8	16161.0	17559.6	21099.1
65°	13466.2	13730.9	15489.2	17253.6	19382.1	19285.7	19128.1	18399.7	18996.5	19272.0	20595.6
67.5°	11336.1	11606.9	13654.4	16789.9	20627.8	22814.5	22848.1	21604.1	20741.0	19418.9	17316.3
70°	8076.7	8289.4	9983.3	14076.8	19679.0	25120.6	25235.3	23080.7	20393.6	17221.4	12098.1
72.5°	3834.8	3964.9	5568.6	9161.6	15616.2	23016.5	23238.4	21195.5	17340.8	12750.0	6600.0
75°	1409.4	1449.1	1882.2	3897.5	9057.5	16973.5	17235.2	15193.8	11495.2	6347.5	2514.2
77.5°	844.7	870.7	1055.9	1645.0	3562.4	9701.8	10088.9	8263.3	5023.8	2362.7	1236.4
80°	590.7	609.0	757.5	1023.7	1683.3	3697.1	4041.4	3372.7	2001.6	1495.1	899.8
82.5°	399.4	408.6	532.5	691.7	1118.6	1320.6	1424.7	1499.6	1349.7	1112.5	570.8
85°	261.7	270.9	361.1	456.0	711.6	682.5	697.8	883.0	985.5	755.9	316.8
87.5°	150.0	156.1	217.3	243.3	348.9	289.2	292.3	465.2	630.5	509.6	192.8
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°	3649.6	3649.6	3649.6	3649.6	3649.6	3649.6	3649.6	3649.6	3649.6	3649.6	3649.6
2.5°	3635.9	3616.0	3571.6	3544.1	3518.0	3511.9	3501.2	3499.7	3498.1	3498.1	3493.6
5°	3554.8	3521.1	3452.2	3414.0	3381.8	3378.8	3377.3	3384.9	3388.0	3391.0	3386.4
7.5°	3502.7	3456.8	3371.1	3316.0	3277.8	3268.6	3283.9	3319.1	3342.1	3351.2	3346.7
10°	3470.6	3414.0	3314.5	3254.8	3222.7	3218.1	3238.0	3279.3	3326.8	3345.1	3343.6
12.5°	3433.9	3369.6	3264.0	3201.3	3182.9	3192.1	3218.1	3256.4	3305.3	3334.4	3335.9
15°	3397.2	3322.2	3213.5	3158.4	3150.8	3163.0	3187.5	3216.6	3254.8	3283.9	3287.0
17.5°	3352.8	3274.7	3166.1	3109.5	3103.3	3109.5	3111.0	3126.3	3150.8	3178.3	3186.0
20°	3305.3	3225.8	3112.5	3055.9	3028.4	3003.9	2976.3	2979.4	2987.0	3014.6	3020.7
22.5°	3271.7	3192.1	3071.2	2993.2	2919.7	2846.3	2791.2	2783.5	2786.6	2809.5	2817.2
25°	3274.7	3190.6	3060.5	2925.8	2765.2	2647.3	2573.9	2561.6	2560.1	2576.9	2587.7
27.5°	3334.4	3250.2	3100.3	2857.0	2596.8	2422.4	2344.3	2335.2	2322.9	2327.5	2339.8
30°	3467.5	3389.5	3196.7	2786.6	2414.7	2202.0	2120.9	2111.7	2094.9	2087.3	2096.4
32.5°	3684.8	3620.6	3337.5	2719.3	2232.6	2013.8	1931.2	1911.3	1900.6	1891.4	1899.0
35°	4046.0	4018.4	3525.7	2645.8	2072.0	1868.4	1793.5	1762.8	1747.5	1764.4	1776.6
37.5°	4612.2	4627.5	3772.1	2531.0	1948.0	1772.0	1709.3	1674.1	1651.1	1664.9	1678.7
40°	5414.0	5424.7	4044.4	2368.8	1840.9	1715.4	1648.1	1615.9	1583.8	1559.3	1557.8
42.5°	6466.8	6358.2	4312.2	2192.8	1716.9	1680.2	1605.2	1565.4	1516.5	1449.1	1435.4
45°	7715.5	7334.5	4515.8	1990.9	1577.7	1637.4	1557.8	1502.7	1426.2	1352.7	1345.1
47.5°	9153.9	8382.7	4615.2	1781.2	1447.6	1574.6	1499.6	1412.4	1316.0	1279.3	1274.7
50°	10910.7	9626.8	4662.7	1577.7	1334.4	1492.0	1415.5	1313.0	1231.9	1224.2	1219.6
52.5°	12910.7	11123.4	4678.0	1410.9	1241.0	1384.9	1346.6	1247.2	1182.9	1189.0	1189.0
55°	15004.1	12668.9	4469.9	1290.0	1155.3	1274.7	1300.7	1221.1	1167.6	1192.1	1201.2
57.5°	16926.1	14038.5	3814.9	1196.7	1074.2	1190.5	1283.9	1245.6	1208.9	1308.4	1314.5
60°	18401.2	14848.0	2849.3	1112.5	1014.6	1161.5	1328.3	1339.0	1348.1	1585.3	1617.5
62.5°	18710.4	14578.7	1958.7	1046.7	987.0	1185.9	1409.4	1410.9	1400.2	1565.4	1585.3
65°	17291.8	12875.5	1424.7	1010.0	964.1	1230.3	1478.2	1446.1	1375.7	1501.2	1464.4
67.5°	13732.5	9700.2	1185.9	982.4	930.4	1227.3	1551.7	1478.2	1361.9	1470.6	1410.9
70°	8913.7	5865.4	1055.9	959.5	890.6	1169.1	1594.5	1475.2	1322.1	1368.0	1297.7
72.5°	4349.0	2622.8	968.6	925.8	849.3	1088.0	1593.0	1447.6	1280.8	1277.8	1239.5
75°	1701.6	1201.2	889.1	875.3	778.9	996.2	1550.1	1407.8	1231.9	1182.9	1169.1
77.5°	996.2	856.9	788.1	800.3	694.7	904.4	1487.4	1339.0	1164.5	1106.4	1091.1
80°	725.3	641.2	671.8	691.7	593.7	812.6	1403.2	1254.8	1089.5	1118.6	1097.2
82.5°	465.2	413.2	544.8	564.7	494.3	719.2	1311.4	1166.0	983.9	893.7	872.2
85°	237.2	261.7	405.5	430.0	381.0	590.7	1199.7	1048.2	864.6	743.7	755.9
87.5°	133.1	179.0	258.6	289.2	269.3	454.5	973.2	864.6	705.4	573.8	505.0
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)