

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: P269437

Luminaire Tested: **GLEON-AF-06-LED-E1-T4W-7027**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P269437  
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-7027  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 30714.5 lumens  
Efficiency: N/A  
Efficacy: 92.2 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

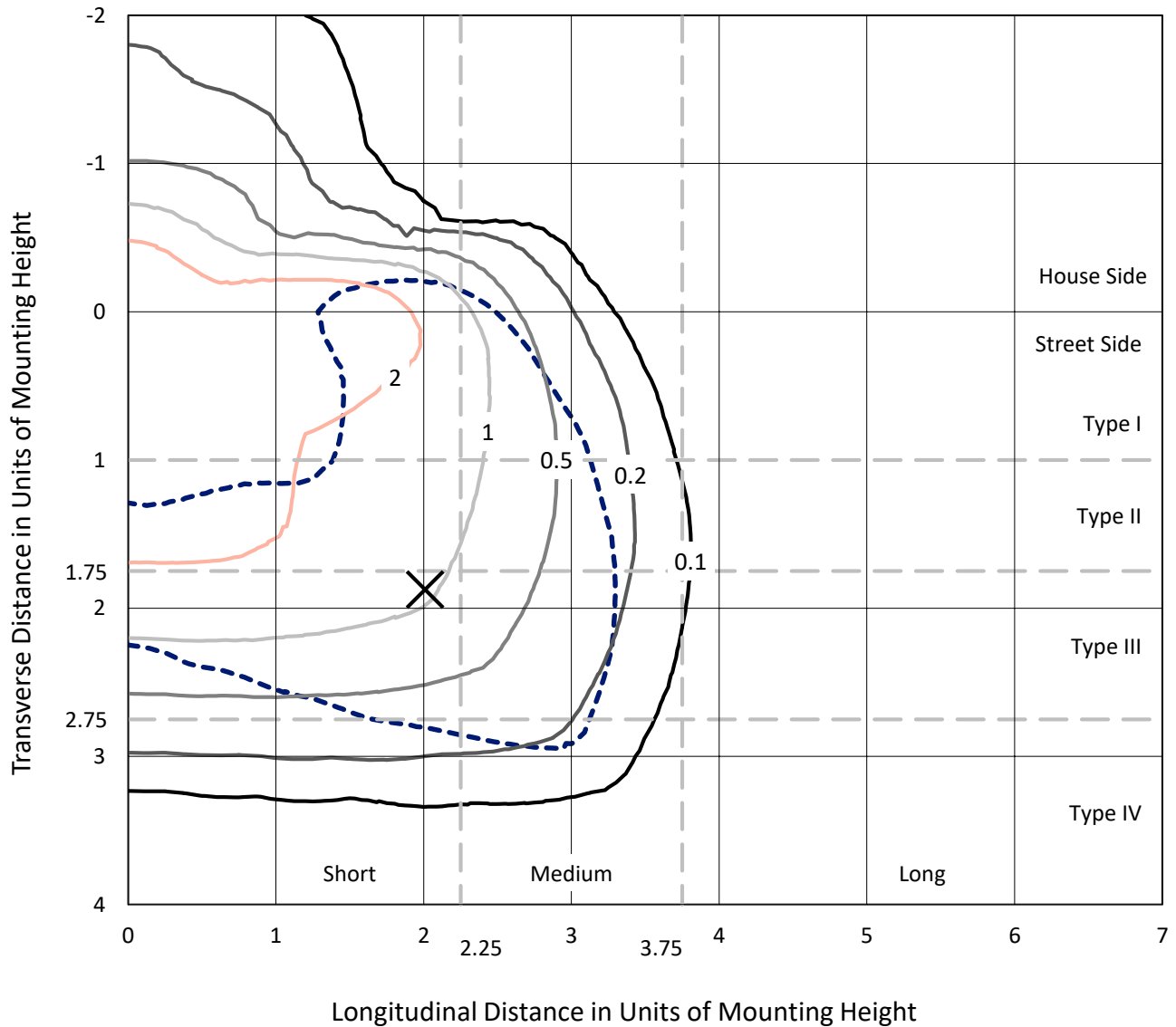
Input Watts (W): 333  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

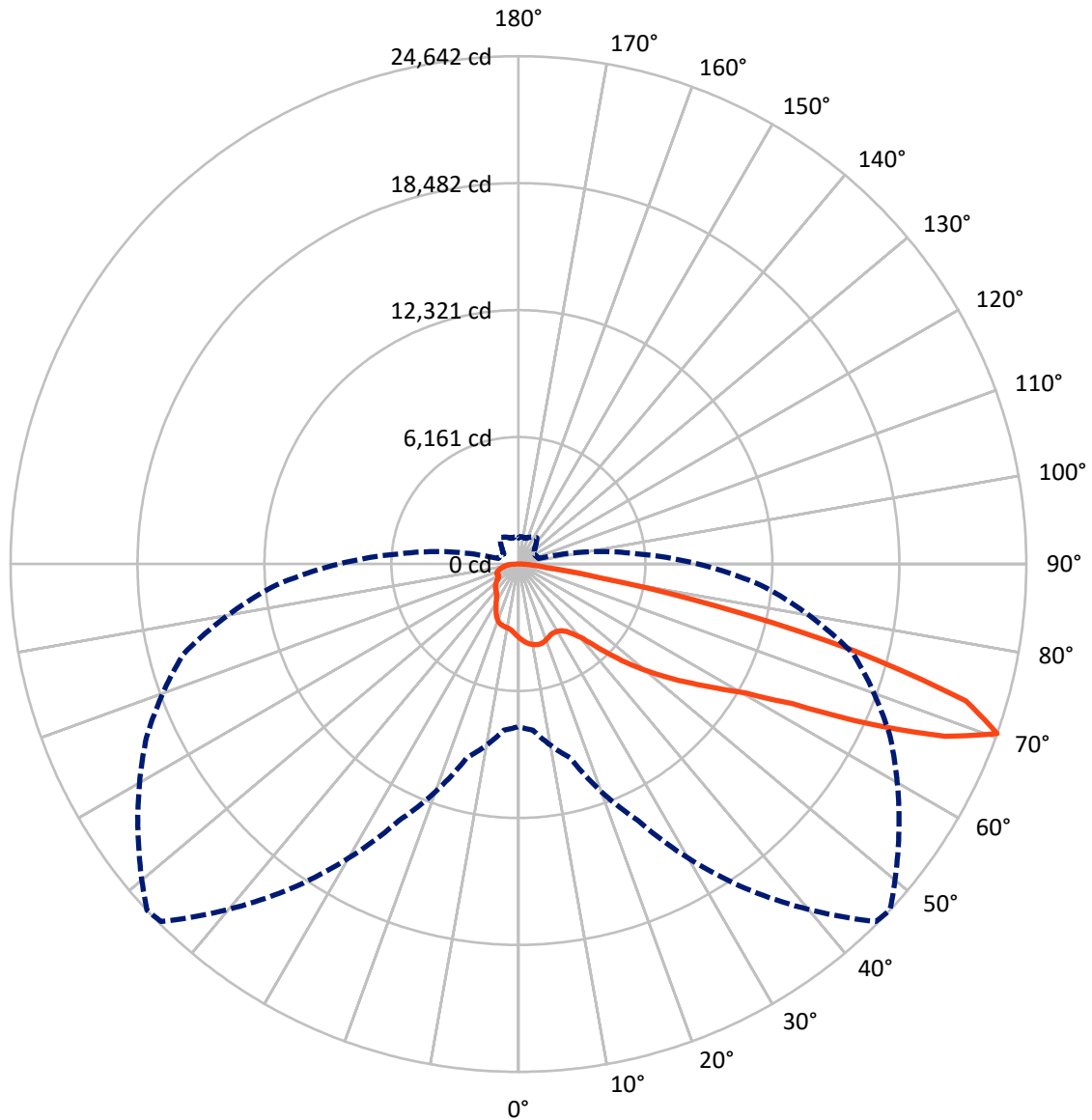
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.6 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	6407.7	0.0	6407.7
	% Fixture	20.9	0.0	20.9
<b>Street Side</b>	Lumens	24306.8	0.0	24306.8
	% Fixture	79.1	0.0	79.1
<b>Total</b>	Lumens	30714.5	0.0	30714.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	341.5	1.1
10°-20°	1001.8	3.3
20°-30°	1479.4	4.8
30°-40°	2150.3	7.0
40°-50°	3869.7	12.6
50°-60°	6703.9	21.8
60°-70°	9568.4	31.2
70°-80°	4911.9	16.0
80°-90°	687.7	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°	30714.5	100.0
0°-180°	30714.5	100.0

**Coefficient of Utilization**



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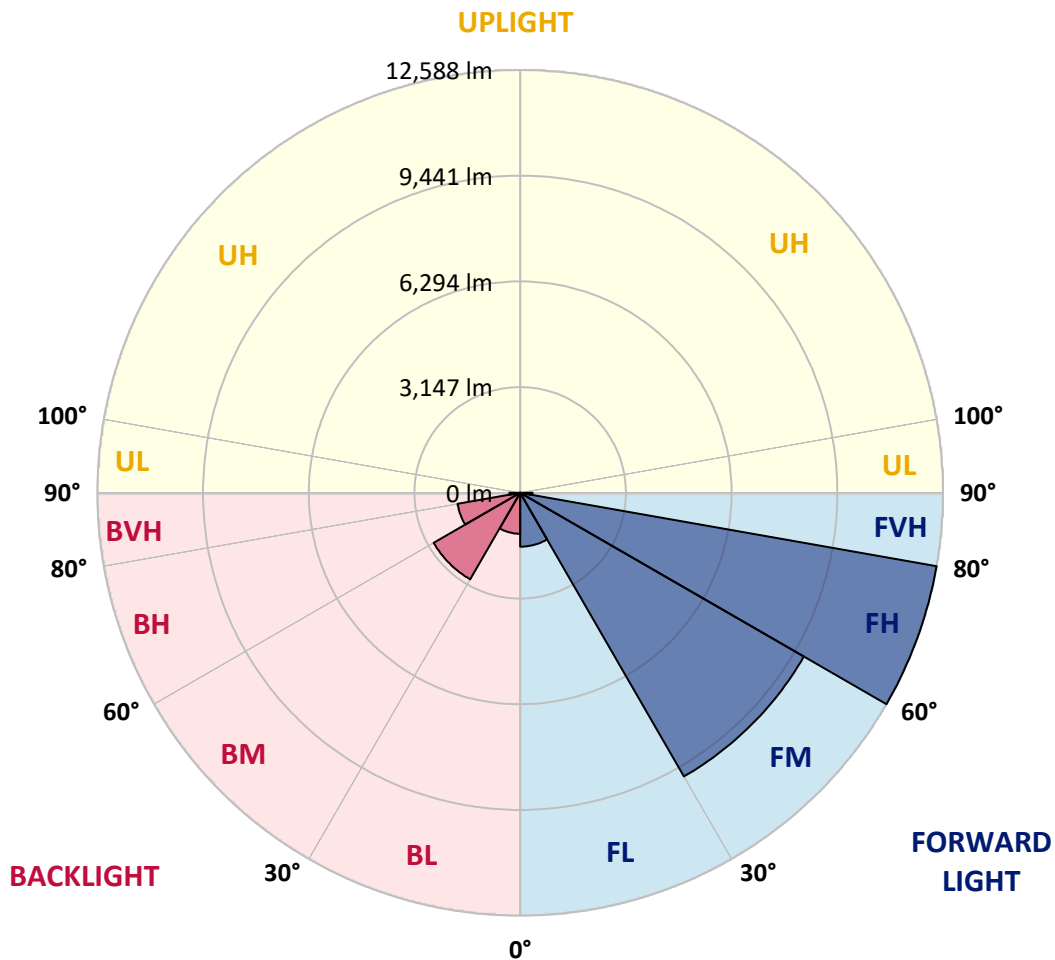
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1602.6	5.2			
FM	(30°-60°)	9749.6	31.7			
FH	(60°-80°)	12587.6	41.0			G5
FVH	(80°-90°)	366.9	1.2			G3/500
BL	(0°-30°)	1220.1	4.0	B3/2500		
BM	(30°-60°)	2974.2	9.7	B3/5000		
BH	(60°-80°)	1892.6	6.2	B3/2500		G3/2500
BVH	(80°-90°)	320.7	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°	3563.8	3563.8	3563.8	3563.8	3563.8	3563.8	3563.8	3563.8	3563.8	3563.8	3563.8
2.5°	3773.1	3765.5	3762.6	3756.6	3749.2	3711.7	3704.3	3677.4	3640.0	3601.1	3560.8
5°	4021.2	4019.6	4003.1	3973.3	3925.5	3843.3	3823.8	3758.1	3669.9	3584.7	3499.5
7.5°	4239.2	4225.7	4194.5	4134.7	4050.9	3938.9	3911.9	3820.9	3699.8	3583.2	3468.1
10°	4399.1	4391.6	4323.0	4240.8	4131.7	4007.7	3976.3	3874.7	3741.7	3593.7	3450.3
12.5°	4490.3	4475.4	4396.1	4297.5	4167.5	4046.4	4015.2	3911.9	3762.6	3593.7	3424.9
15°	4484.2	4473.9	4394.7	4287.2	4155.6	4049.5	4021.2	3918.0	3758.1	3578.8	3392.0
17.5°	4364.8	4369.3	4302.1	4196.0	4088.4	4007.7	3982.2	3886.5	3728.1	3548.9	3353.2
20°	4155.6	4176.5	4131.7	4037.5	3977.8	3922.4	3906.0	3825.3	3682.0	3505.5	3311.3
22.5°	3946.3	3965.7	3948.0	3868.7	3859.7	3826.8	3817.8	3759.5	3641.5	3478.6	3285.9
25°	3792.5	3810.4	3807.3	3738.7	3765.5	3764.1	3756.6	3728.1	3632.6	3478.6	3290.4
27.5°	3750.7	3756.6	3750.7	3687.8	3725.2	3755.2	3749.2	3744.7	3659.4	3522.0	3347.2
30°	3894.1	3885.1	3838.7	3711.7	3746.1	3788.0	3782.0	3785.0	3740.2	3635.6	3474.1
32.5°	4466.4	4425.9	4279.5	3922.4	3831.4	3853.6	3856.8	3906.0	3913.5	3810.4	3671.5
35°	5322.5	5277.7	5088.0	4487.4	4095.8	4018.1	4018.1	4092.8	4137.7	4061.4	3977.8
37.5°	6229.7	6180.2	6078.7	5270.3	4651.7	4303.5	4296.1	4348.3	4412.6	4430.5	4451.5
40°	7260.7	7208.4	7236.7	6148.9	5427.2	4798.0	4691.9	4654.7	4828.0	4943.1	5110.4
42.5°	8388.8	8364.9	8375.3	7127.7	6310.4	5537.8	5386.9	5194.1	5403.2	5607.9	5959.1
45°	9433.3	9454.2	9443.8	8175.1	7293.5	6440.3	6280.4	5906.9	6111.6	6462.8	7035.0
47.5°	10347.8	10261.2	10395.6	9319.7	8394.8	7450.5	7253.2	6752.6	6960.2	7393.7	8362.0
50°	11458.2	11446.2	11248.8	10846.9	9726.2	8465.1	8206.6	7626.8	7949.6	8551.8	10034.1
52.5°	12625.0	12408.4	12227.5	12034.9	11138.4	9505.1	9188.3	8498.0	9112.0	9869.7	12072.2
55°	12864.2	12767.0	12991.2	13315.4	12499.6	10585.4	10216.3	9590.2	10421.1	11375.9	14422.6
57.5°	13375.3	13373.7	13837.0	14415.2	13901.2	11731.5	11359.4	10909.6	11892.9	13101.8	16918.0
60°	13720.4	13817.5	14678.2	15800.4	15277.5	13055.4	12713.3	12432.4	13566.6	15030.9	19243.2
62.5°	13901.2	14032.8	15207.1	16362.3	17222.9	15259.5	14917.3	14512.4	15781.0	17146.8	20602.9
65°	13149.6	13408.1	15125.0	16847.9	18926.4	18832.2	18678.4	17967.1	18549.9	18818.9	20111.4
67.5°	11069.5	11334.0	13333.5	16395.1	20142.8	22278.1	22310.9	21096.2	20253.4	18962.3	16909.2
70°	7886.8	8094.4	9748.6	13745.9	19216.4	24529.9	24642.0	22538.0	19914.2	16816.5	11813.7
72.5°	3744.7	3871.6	5437.6	8946.2	15249.1	22475.4	22691.9	20697.2	16933.1	12450.2	6444.8
75°	1376.3	1415.1	1837.9	3805.8	8844.6	16574.4	16829.9	14836.6	11225.0	6198.2	2455.1
77.5°	824.9	850.2	1031.1	1606.3	3478.6	9473.6	9851.7	8069.0	4905.7	2307.1	1207.4
80°	576.8	594.7	739.7	999.6	1643.7	3610.2	3946.3	3293.4	1954.5	1459.8	878.6
82.5°	390.0	398.9	519.9	675.4	1092.2	1289.5	1391.1	1464.3	1318.0	1086.3	557.4
85°	255.5	264.6	352.7	445.3	694.7	666.5	681.4	862.3	962.4	738.1	309.3
87.5°	146.5	152.4	212.2	237.6	340.6	282.3	285.4	454.3	615.7	497.7	188.3
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°	3563.8	3563.8	3563.8	3563.8	3563.8	3563.8	3563.8	3563.8	3563.8	3563.8	3563.8
2.5°	3550.5	3531.0	3487.6	3460.7	3435.3	3429.4	3418.9	3417.4	3416.0	3416.0	3411.5
5°	3471.2	3438.4	3371.1	3333.7	3302.3	3299.4	3297.9	3305.4	3308.3	3311.3	3306.8
7.5°	3420.3	3375.6	3291.8	3238.1	3200.8	3191.8	3206.7	3241.1	3263.5	3272.4	3267.9
10°	3388.9	3333.7	3236.7	3178.4	3146.9	3142.5	3161.9	3202.2	3248.5	3266.4	3265.0
12.5°	3353.2	3290.4	3187.2	3126.0	3108.0	3117.1	3142.5	3179.8	3227.6	3256.0	3257.6
15°	3317.4	3244.0	3138.0	3084.2	3076.8	3088.6	3112.5	3141.0	3178.4	3206.7	3209.7
17.5°	3274.0	3197.7	3091.6	3036.4	3030.4	3036.4	3037.9	3052.8	3076.8	3103.6	3111.1
20°	3227.6	3149.9	3039.3	2984.1	2957.2	2933.2	2906.3	2909.3	2916.8	2943.7	2949.7
22.5°	3194.7	3117.1	2999.0	2922.7	2851.1	2779.4	2725.5	2718.1	2721.1	2743.5	2751.0
25°	3197.7	3115.5	2988.5	2857.1	2700.1	2585.1	2513.4	2501.4	2500.0	2516.3	2526.8
27.5°	3256.0	3173.8	3027.4	2789.7	2535.7	2365.4	2289.2	2280.3	2268.3	2272.8	2284.7
30°	3386.0	3309.9	3121.5	2721.1	2358.0	2150.3	2071.0	2062.1	2045.7	2038.2	2047.1
32.5°	3598.3	3535.5	3259.1	2655.3	2180.1	1966.5	1885.8	1866.4	1855.9	1846.9	1854.5
35°	3950.8	3923.9	3442.8	2583.5	2023.3	1824.5	1751.2	1721.4	1706.5	1722.9	1734.8
37.5°	4503.7	4518.7	3683.4	2471.5	1902.3	1730.3	1669.1	1634.7	1612.3	1625.8	1639.1
40°	5286.7	5297.1	3949.4	2313.1	1797.6	1675.1	1609.4	1578.0	1546.6	1522.6	1521.2
42.5°	6314.7	6208.6	4210.9	2141.3	1676.5	1640.8	1567.5	1528.6	1480.9	1415.1	1401.6
45°	7534.2	7162.0	4409.6	1944.0	1540.7	1598.9	1521.2	1467.4	1392.6	1321.0	1313.4
47.5°	8938.8	8185.6	4506.7	1739.3	1413.7	1537.5	1464.3	1379.2	1285.0	1249.3	1244.7
50°	10654.2	9400.5	4553.0	1540.7	1303.0	1457.0	1382.2	1282.2	1202.9	1195.5	1191.0
52.5°	12607.2	10861.9	4568.1	1377.7	1211.9	1352.3	1314.9	1217.8	1155.1	1161.1	1161.1
55°	14651.4	12371.1	4364.8	1259.7	1128.2	1244.7	1270.2	1192.4	1140.0	1164.1	1172.9
57.5°	16528.2	13708.5	3725.2	1168.5	1049.0	1162.5	1253.7	1216.3	1180.5	1277.6	1283.6
60°	17968.5	14499.0	2782.3	1086.3	990.7	1134.2	1297.1	1307.6	1316.5	1548.0	1579.4
62.5°	18270.4	14235.9	1912.8	1022.1	963.8	1158.0	1376.3	1377.7	1367.3	1528.6	1548.0
65°	16885.4	12572.8	1391.1	986.2	941.5	1201.5	1443.4	1412.0	1343.3	1465.9	1430.0
67.5°	13409.5	9472.2	1158.0	959.3	908.5	1198.3	1515.3	1443.4	1329.9	1436.0	1377.7
70°	8704.1	5727.6	1031.1	936.9	869.6	1141.7	1557.0	1440.5	1291.0	1335.9	1267.1
72.5°	4246.6	2561.2	945.8	904.1	829.3	1062.4	1555.5	1413.7	1250.7	1247.7	1210.3
75°	1661.7	1172.9	868.2	854.6	760.5	972.8	1513.7	1374.8	1202.9	1155.1	1141.7
77.5°	972.8	836.9	769.6	781.4	678.4	883.2	1452.4	1307.6	1137.2	1080.3	1065.4
80°	708.3	626.1	656.0	675.4	579.8	793.5	1370.3	1225.3	1064.0	1092.2	1071.4
82.5°	454.3	403.5	531.9	551.4	482.7	702.4	1280.7	1138.6	960.7	872.7	851.8
85°	231.7	255.5	396.1	419.9	372.1	576.8	1171.5	1023.6	844.2	726.2	738.1
87.5°	130.1	174.8	252.6	282.3	263.1	443.9	950.3	844.2	688.9	560.4	493.1
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)