

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: P194114

Luminaire Tested: **GLEON-AF-06-LED-E1-T4W-8030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P194114  
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-8030  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 CRI, 3000K, 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: 28847 lumens  
Efficiency: N/A  
Efficacy: 86.6 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 - G4

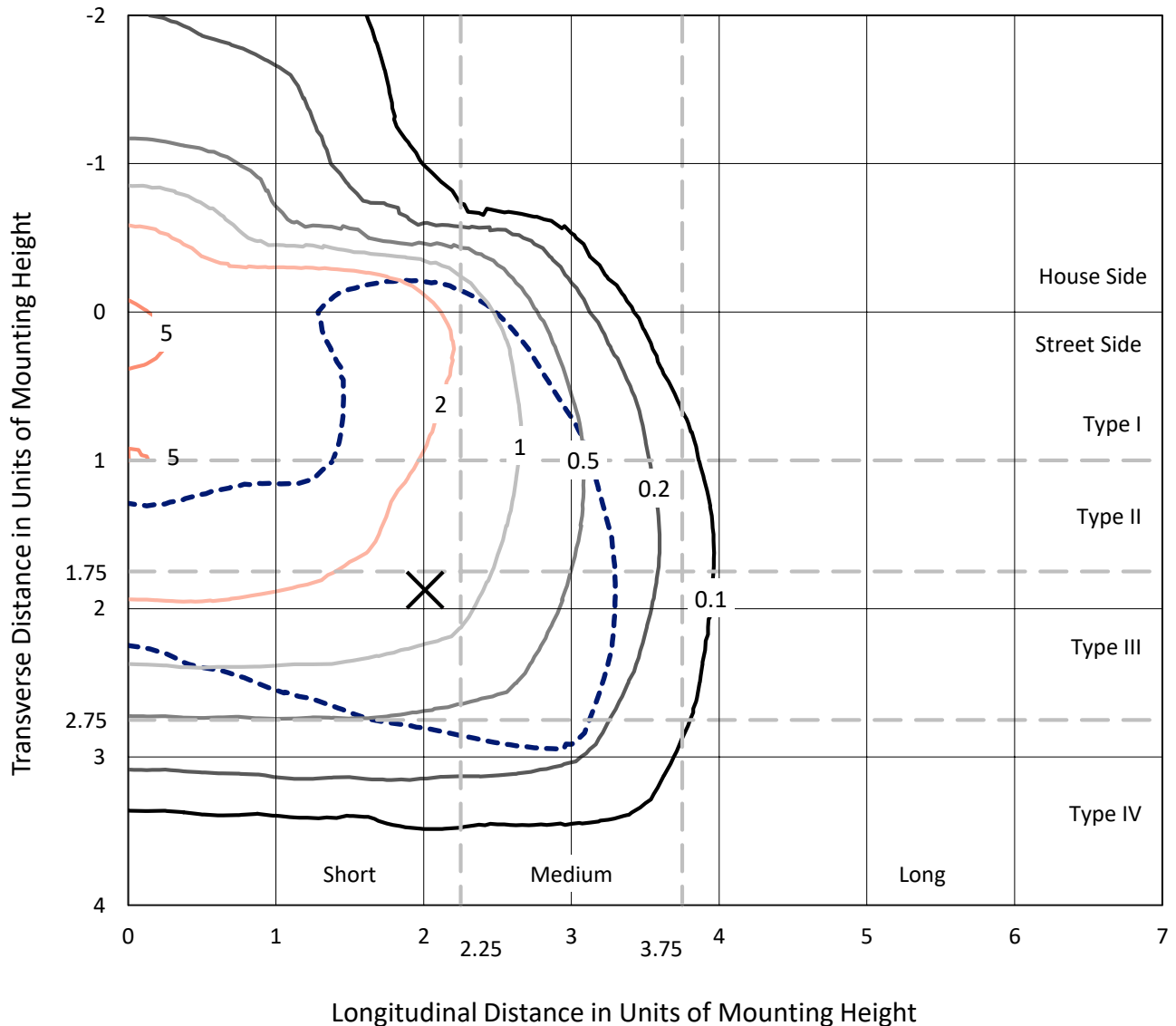
Input Watts (W): 333  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

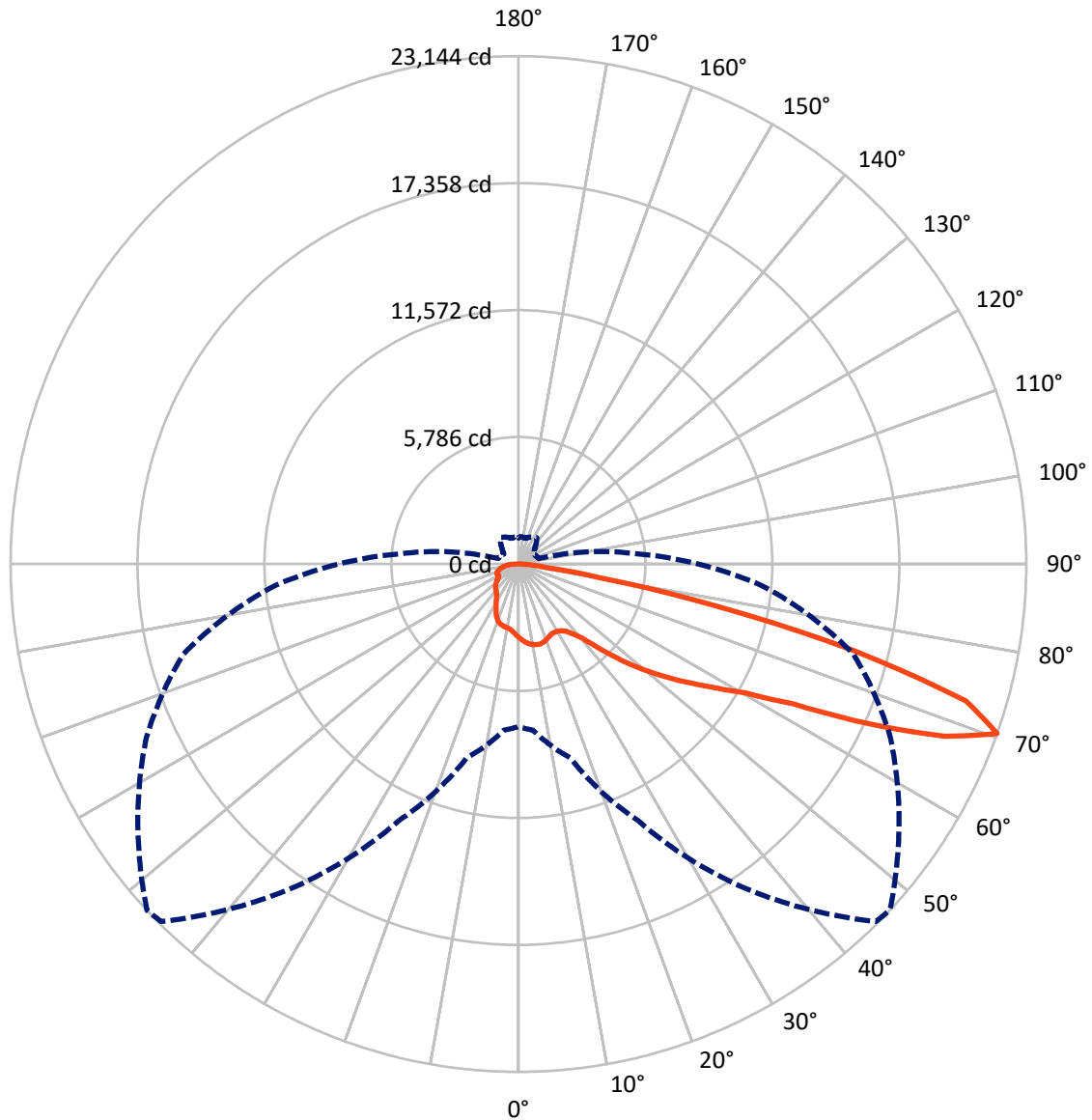
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 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	6018.1	0.0	6018.1
	% Fixture	20.9	0.0	20.9
<b>Street Side</b>	Lumens	22828.9	0.0	22828.9
	% Fixture	79.1	0.0	79.1
<b>Total</b>	Lumens	28847.0	0.0	28847.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	320.7	1.1
10°-20°	940.9	3.3
20°-30°	1389.4	4.8
30°-40°	2019.5	7.0
40°-50°	3634.4	12.6
50°-60°	6296.3	21.8
60°-70°	8986.6	31.2
70°-80°	4613.2	16.0
80°-90°	645.9	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°	28847.0	100.0
0°-180°	28847.0	100.0



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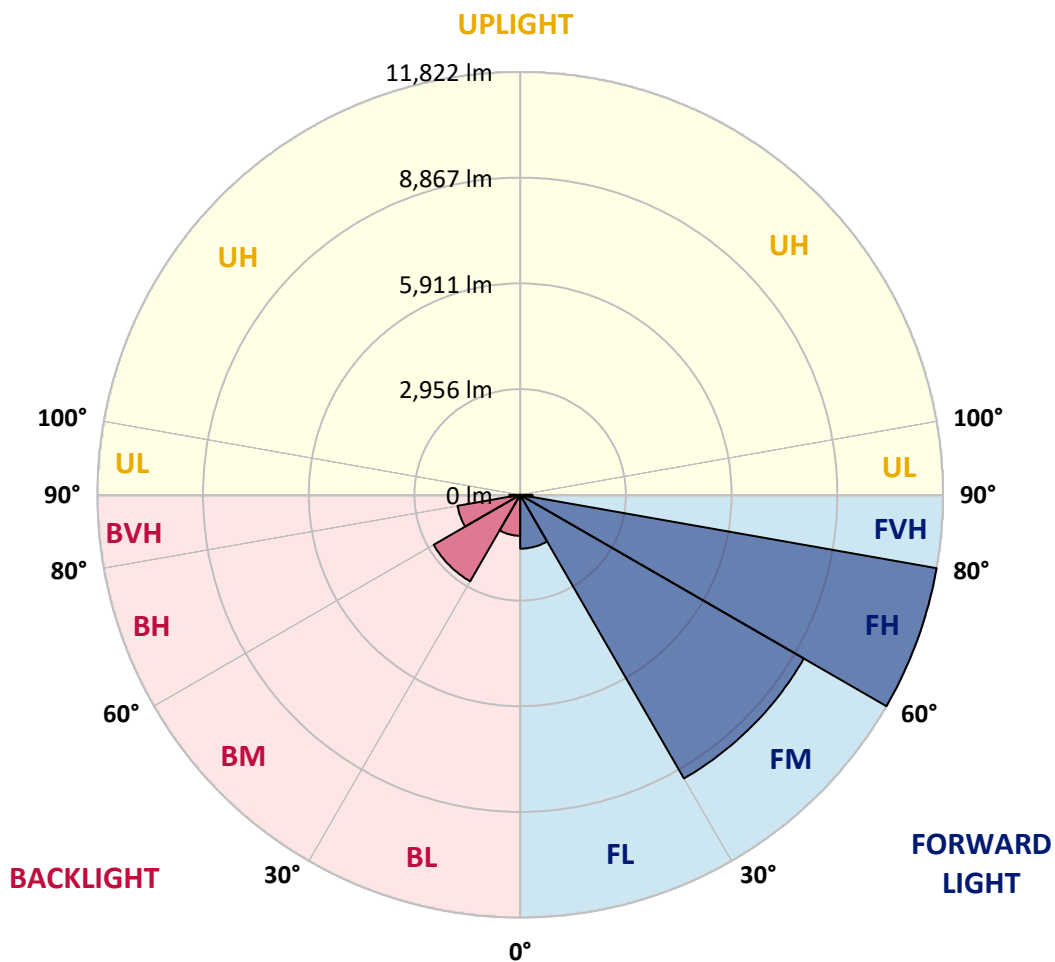
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1505.2	5.2			
FM	(30°-60°)	9156.8	31.7			
FH	(60°-80°)	11822.3	41.0			G4/12000
FVH	(80°-90°)	344.6	1.2			G3/500
BL	(0°-30°)	1145.9	4.0	B3/2500		
BM	(30°-60°)	2793.4	9.7	B3/5000		
BH	(60°-80°)	1777.6	6.2	B3/2500		G3/2500
BVH	(80°-90°)	301.2	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-G4**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	3347.2	3347.2	3347.2	3347.2	3347.2	3347.2	3347.2	3347.2	3347.2	3347.2	3347.2
2.5°	3543.6	3536.6	3533.8	3528.2	3521.2	3486.1	3479.1	3453.8	3418.7	3382.2	3344.3
5°	3776.6	3775.2	3759.8	3731.7	3686.8	3609.6	3591.3	3529.6	3446.8	3366.8	3286.8
7.5°	3981.5	3968.9	3939.4	3883.3	3804.7	3699.4	3674.1	3588.5	3474.9	3365.4	3257.3
10°	4131.7	4124.6	4060.1	3982.9	3880.4	3764.0	3734.5	3639.1	3514.2	3375.2	3240.5
12.5°	4217.3	4203.2	4128.9	4036.2	3914.1	3800.5	3771.0	3674.1	3533.8	3375.2	3216.6
15°	4211.7	4201.8	4127.4	4026.4	3902.9	3803.3	3776.6	3679.8	3529.6	3361.2	3185.8
17.5°	4099.4	4103.6	4040.4	3940.8	3839.7	3764.0	3740.1	3650.3	3501.5	3333.1	3149.3
20°	3902.9	3922.6	3880.4	3792.0	3735.9	3684.0	3668.5	3592.7	3458.0	3292.4	3110.0
22.5°	3706.4	3724.7	3707.8	3633.4	3625.0	3594.2	3585.7	3531.0	3420.1	3267.2	3086.1
25°	3561.9	3578.7	3575.9	3511.3	3536.6	3535.2	3528.2	3501.5	3411.7	3267.2	3090.3
27.5°	3522.6	3528.2	3522.6	3463.6	3498.7	3526.8	3521.2	3517.0	3437.0	3307.9	3143.7
30°	3657.3	3648.9	3605.4	3486.1	3518.4	3557.7	3552.0	3554.9	3512.8	3414.5	3262.9
32.5°	4194.8	4156.9	4019.4	3684.0	3598.4	3619.4	3622.2	3668.5	3675.5	3578.7	3448.2
35°	4999.0	4956.9	4778.6	4214.5	3846.8	3773.8	3773.8	3844.0	3886.1	3814.5	3735.9
37.5°	5850.8	5804.5	5709.1	4949.9	4368.8	4041.8	4034.8	4083.9	4144.3	4161.1	4180.8
40°	6819.2	6770.1	6796.7	5775.1	5097.2	4506.4	4406.7	4371.6	4534.4	4642.5	4799.7
42.5°	7878.8	7856.3	7866.2	6694.3	5926.6	5201.1	5059.3	4878.3	5074.8	5267.0	5596.8
45°	8859.8	8879.4	8869.6	7678.1	6850.1	6048.7	5898.6	5547.7	5740.0	6069.8	6607.3
47.5°	9718.7	9637.3	9763.6	8753.1	7884.4	6997.4	6812.2	6342.0	6537.1	6944.1	7853.5
50°	10761.4	10750.2	10564.9	10187.4	9134.8	7950.4	7707.6	7163.0	7466.2	8031.8	9423.9
52.5°	11857.5	11654.0	11484.2	11303.1	10461.1	8927.1	8629.6	7981.2	8558.0	9269.6	11338.2
55°	12082.0	11990.8	12201.3	12505.9	11739.6	9941.8	9595.2	9007.1	9787.4	10684.2	13545.8
57.5°	12562.0	12560.6	12995.6	13538.8	13056.0	11018.2	10668.8	10246.3	11169.8	12305.2	15889.5
60°	12886.2	12977.4	13785.8	14839.7	14348.5	12261.7	11940.3	11676.4	12741.6	14117.0	18073.2
62.5°	13056.0	13179.5	14282.6	15367.4	16175.8	14331.7	14010.3	13630.0	14821.5	16104.2	19350.3
65°	12350.1	12592.9	14205.4	15823.5	17775.7	17687.3	17542.7	16874.7	17422.0	17674.6	18888.6
67.5°	10396.5	10644.9	12522.7	15398.3	18918.1	20923.5	20954.4	19813.4	19021.9	17809.4	15881.1
70°	7407.2	7602.3	9155.9	12910.0	18047.9	23038.5	23143.8	21167.7	18703.3	15794.1	11095.4
72.5°	3517.0	3636.3	5107.0	8402.3	14321.9	21108.8	21312.3	19438.7	15903.5	11693.3	6052.9
75°	1292.5	1329.0	1726.2	3574.5	8306.8	15566.7	15806.7	13934.5	10542.5	5821.4	2305.8
77.5°	774.7	798.5	968.4	1508.7	3267.2	8897.7	9252.7	7578.5	4607.4	2166.9	1134.0
80°	541.7	558.6	694.7	938.9	1543.8	3390.7	3706.4	3093.1	1835.7	1371.1	825.2
82.5°	366.3	374.7	488.4	634.3	1025.9	1211.1	1306.6	1375.3	1237.8	1020.3	523.5
85°	240.0	248.4	331.2	418.2	652.6	625.9	640.0	809.8	903.8	693.3	290.5
87.5°	137.5	143.1	199.3	223.1	320.0	265.2	268.1	426.6	578.2	467.3	176.8
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°	3347.2	3347.2	3347.2	3347.2	3347.2	3347.2	3347.2	3347.2	3347.2	3347.2	3347.2
2.5°	3334.5	3316.3	3275.6	3250.3	3226.5	3220.8	3211.0	3209.6	3208.2	3208.2	3204.0
5°	3260.1	3229.3	3166.1	3131.0	3101.6	3098.7	3097.3	3104.4	3107.2	3110.0	3105.8
7.5°	3212.4	3170.3	3091.7	3041.2	3006.1	2997.7	3011.7	3044.0	3065.1	3073.5	3069.3
10°	3183.0	3131.0	3039.8	2985.1	2955.6	2951.4	2969.6	3007.5	3051.0	3067.9	3066.5
12.5°	3149.3	3090.3	2993.5	2935.9	2919.1	2927.5	2951.4	2986.5	3031.4	3058.0	3059.4
15°	3115.6	3046.8	2947.2	2896.7	2889.6	2900.9	2923.3	2950.0	2985.1	3011.7	3014.5
17.5°	3074.9	3003.3	2903.7	2851.7	2846.1	2851.7	2853.1	2867.2	2889.6	2914.9	2921.9
20°	3031.4	2958.4	2854.6	2802.6	2777.4	2754.9	2729.6	2732.5	2739.5	2764.7	2770.3
22.5°	3000.5	2927.5	2816.7	2745.1	2677.7	2610.4	2559.8	2552.8	2555.6	2576.7	2583.7
25°	3003.3	2926.1	2806.8	2683.3	2536.0	2427.9	2360.5	2349.3	2347.9	2363.4	2373.2
27.5°	3058.0	2980.9	2843.3	2620.2	2381.6	2221.6	2150.0	2141.6	2130.4	2134.6	2145.8
30°	3180.1	3108.6	2931.7	2555.6	2214.6	2019.5	1945.1	1936.7	1921.3	1914.3	1922.7
32.5°	3379.4	3320.5	3060.9	2493.9	2047.6	1846.9	1771.1	1752.9	1743.0	1734.6	1741.6
35°	3710.6	3685.4	3233.5	2426.5	1900.2	1713.6	1644.8	1616.7	1602.7	1618.1	1629.4
37.5°	4229.9	4243.9	3459.4	2321.3	1786.6	1625.2	1567.6	1535.3	1514.3	1526.9	1539.5
40°	4965.3	4975.1	3709.2	2172.5	1688.3	1573.2	1511.5	1482.0	1452.5	1430.1	1428.7
42.5°	5930.8	5831.2	3954.8	2011.1	1574.6	1541.0	1472.2	1435.7	1390.8	1329.0	1316.4
45°	7076.0	6726.6	4141.5	1825.8	1446.9	1501.7	1428.7	1378.2	1308.0	1240.6	1233.6
47.5°	8395.2	7687.9	4232.7	1633.6	1327.6	1444.1	1375.3	1295.4	1206.9	1173.3	1169.0
50°	10006.4	8828.9	4276.2	1446.9	1223.8	1368.3	1298.2	1204.1	1129.8	1122.7	1118.5
52.5°	11840.6	10201.4	4290.2	1294.0	1138.2	1270.1	1235.0	1143.8	1084.8	1090.5	1090.5
55°	13760.5	11618.9	4099.4	1183.1	1059.6	1169.0	1192.9	1119.9	1070.8	1093.3	1101.7
57.5°	15523.2	12874.9	3498.7	1097.5	985.2	1091.9	1177.5	1142.4	1108.7	1199.9	1205.5
60°	16876.1	13617.4	2613.2	1020.3	930.5	1065.2	1218.2	1228.0	1236.4	1453.9	1483.4
62.5°	17159.6	13370.4	1796.4	959.9	905.2	1087.6	1292.5	1294.0	1284.1	1435.7	1453.9
65°	15858.6	11808.4	1306.6	926.3	884.2	1128.3	1355.7	1326.2	1261.7	1376.8	1343.1
67.5°	12594.3	8896.3	1087.6	901.0	853.3	1125.5	1423.1	1355.7	1249.0	1348.7	1294.0
70°	8174.9	5379.3	968.4	879.9	816.8	1072.2	1462.4	1352.9	1212.6	1254.7	1190.1
72.5°	3988.5	2405.5	888.4	849.1	778.9	997.8	1461.0	1327.6	1174.7	1171.9	1136.8
75°	1560.6	1101.7	815.4	802.8	714.3	913.6	1421.7	1291.1	1129.8	1084.8	1072.2
77.5°	913.6	785.9	722.8	734.0	637.2	829.4	1364.1	1228.0	1068.0	1014.7	1000.6
80°	665.2	588.0	616.1	634.3	544.5	745.2	1286.9	1150.8	999.2	1025.9	1006.3
82.5°	426.6	378.9	499.6	517.9	453.3	659.6	1202.7	1069.4	902.4	819.6	799.9
85°	217.5	240.0	371.9	394.4	349.5	541.7	1100.3	961.3	792.9	682.1	693.3
87.5°	122.1	164.2	237.2	265.2	247.0	416.8	892.6	792.9	647.0	526.3	463.1
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)