

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: P194106

Luminaire Tested: **GLEON-AF-08-LED-E1-T4W-8030-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P194106  
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-08-LED-E1-T4W-8030-800  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 31232 lumens  
Efficiency: N/A  
Efficacy: 93.5 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Semi-Cutoff  
BUG Rating: B3 - U0 - G5

Input Watts (W): 334  
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

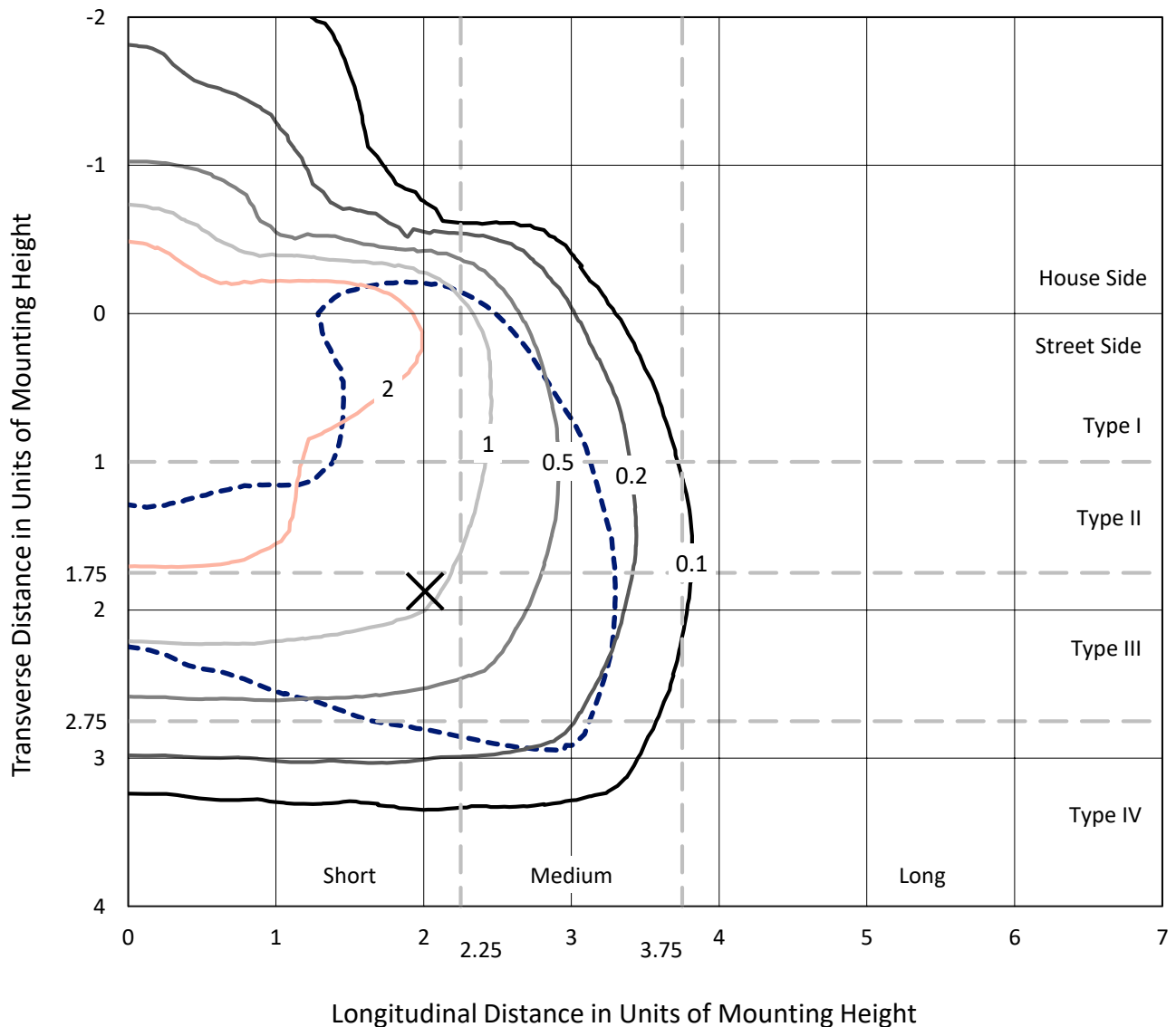


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

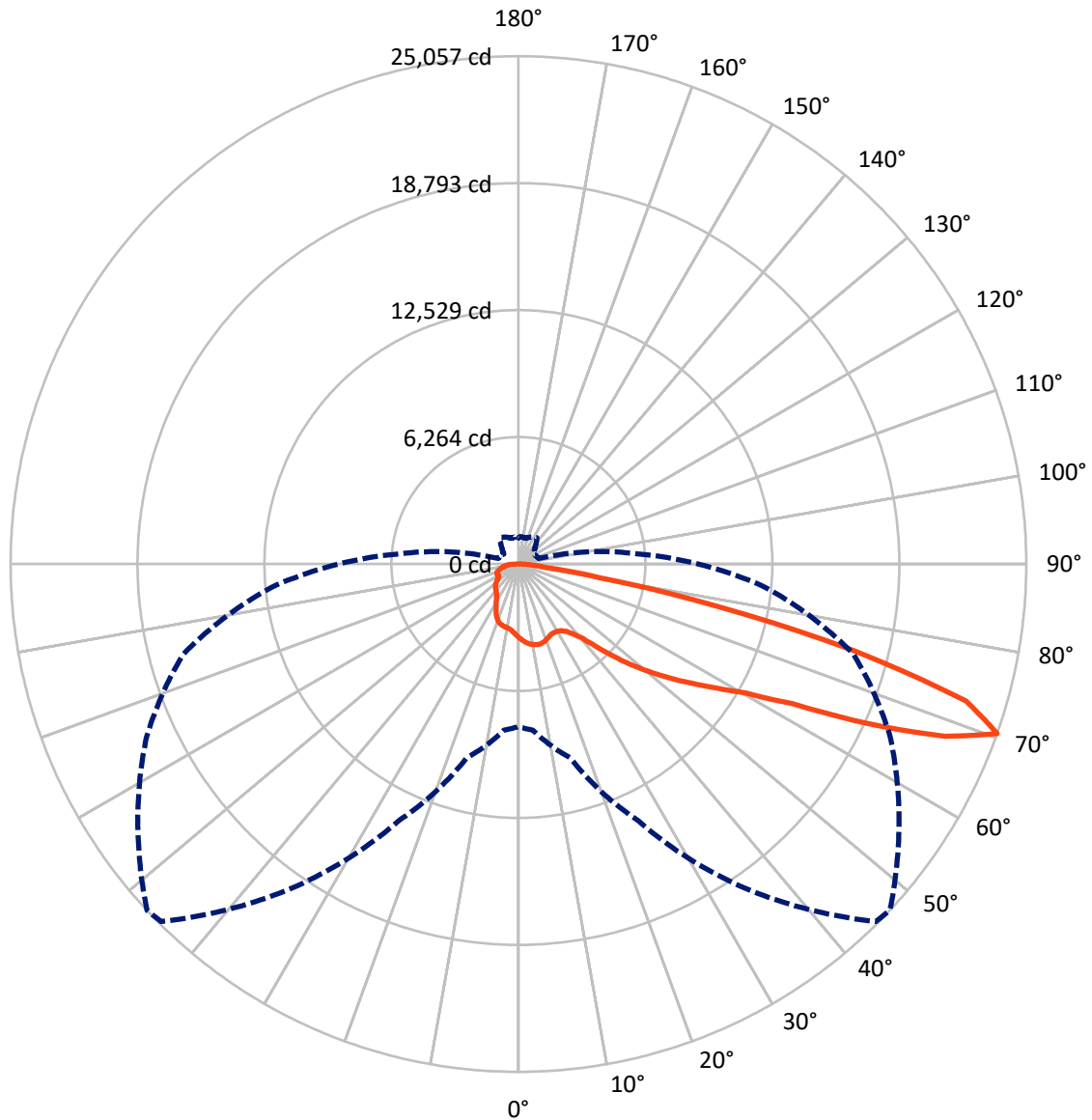


Based on 30 foot mounting height. Maximum calculated value = 4.6 fc  
 Type IV - Short - Semi-Cutoff

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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	6515.6	0.0	6515.6
	% Fixture	20.9	0.0	20.9
<b>Street Side</b>	Lumens	24716.4	0.0	24716.4
	% Fixture	79.1	0.0	79.1
<b>Total</b>	Lumens	31232.0	0.0	31232.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	347.2	1.1
10°-20°	1018.7	3.3
20°-30°	1504.3	4.8
30°-40°	2186.5	7.0
40°-50°	3934.9	12.6
50°-60°	6816.8	21.8
60°-70°	9729.6	31.2
70°-80°	4994.6	16.0
80°-90°	699.3	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°	31232.0	100.0
0°-180°	31232.0	100.0



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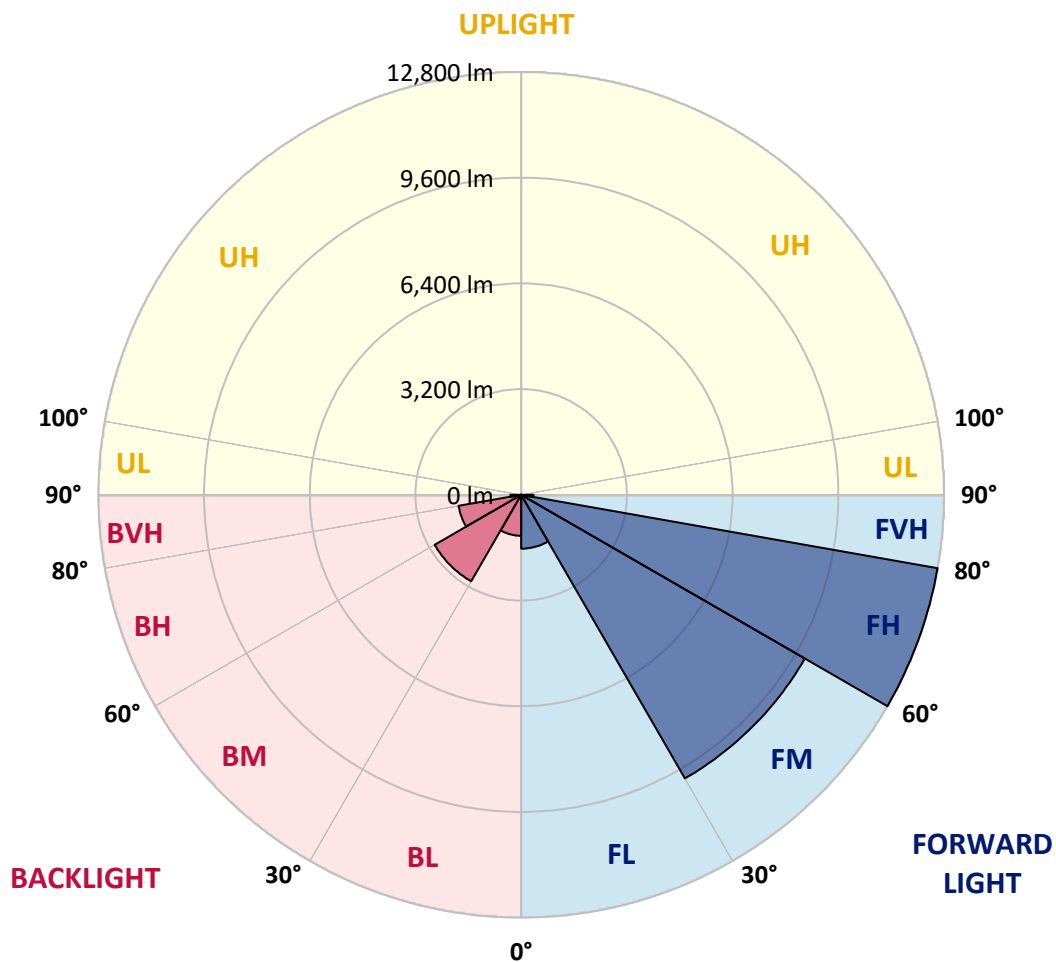
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1629.6	5.2			
FM	(30°-60°)	9913.9	31.7			
FH	(60°-80°)	12799.7	41.0			G5
FVH	(80°-90°)	373.1	1.2			G3/500
BL	(0°-30°)	1240.6	4.0	B3/2500		
BM	(30°-60°)	3024.3	9.7	B3/5000		
BH	(60°-80°)	1924.5	6.2	B3/2500		G3/2500
BVH	(80°-90°)	326.1	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°	3623.9	3623.9	3623.9	3623.9	3623.9	3623.9	3623.9	3623.9	3623.9	3623.9	3623.9
2.5°	3836.6	3829.0	3826.0	3819.9	3812.3	3774.3	3766.7	3739.4	3701.4	3661.9	3620.8
5°	4088.8	4087.3	4070.6	4040.2	3991.6	3908.0	3888.3	3821.4	3731.8	3645.2	3558.5
7.5°	4310.7	4297.0	4265.1	4204.3	4119.2	4005.3	3977.9	3885.2	3762.2	3643.6	3526.6
10°	4473.3	4465.7	4395.8	4312.2	4201.3	4075.2	4043.3	3939.9	3804.7	3654.3	3508.4
12.5°	4565.9	4550.7	4470.2	4369.9	4237.7	4114.7	4082.8	3977.9	3826.0	3654.3	3482.6
15°	4559.9	4549.2	4468.7	4359.3	4225.6	4117.7	4088.8	3984.0	3821.4	3639.1	3449.1
17.5°	4438.3	4442.9	4374.5	4266.6	4157.2	4075.2	4049.3	3952.1	3791.0	3608.7	3409.6
20°	4225.6	4246.9	4201.3	4105.5	4044.8	3988.6	3971.8	3889.8	3743.9	3564.6	3367.1
22.5°	4012.9	4032.6	4014.4	3933.9	3924.7	3891.3	3882.2	3822.9	3702.9	3537.3	3341.3
25°	3856.4	3874.6	3871.6	3801.7	3829.0	3827.5	3819.9	3791.0	3693.8	3537.3	3345.8
27.5°	3813.8	3819.9	3813.8	3750.0	3788.0	3818.4	3812.3	3807.7	3721.1	3581.3	3403.6
30°	3959.7	3950.6	3903.5	3774.3	3809.3	3851.8	3845.7	3848.8	3803.2	3696.8	3532.7
32.5°	4541.6	4500.6	4351.7	3988.6	3895.9	3918.7	3921.7	3971.8	3979.4	3874.6	3733.3
35°	5412.3	5366.7	5173.7	4562.9	4164.8	4085.8	4085.8	4161.8	4207.4	4129.9	4044.8
37.5°	6334.6	6284.4	6181.1	5359.1	4730.0	4376.0	4368.4	4421.6	4486.9	4505.2	4526.4
40°	7383.0	7329.8	7358.7	6252.5	5518.6	4878.9	4771.1	4733.1	4909.3	5026.3	5196.5
42.5°	8530.2	8505.9	8516.5	7247.8	6416.6	5631.1	5477.6	5281.6	5494.3	5702.5	6059.6
45°	9592.3	9613.5	9602.9	8312.9	7416.4	6548.8	6386.2	6006.4	6214.5	6571.6	7153.6
47.5°	10522.2	10434.1	10570.8	9476.8	8536.3	7576.0	7375.4	6866.4	7077.6	7518.2	8502.8
50°	11651.1	11639.0	11438.4	11029.7	9890.1	8607.7	8344.8	7755.3	8083.5	8695.8	10203.1
52.5°	12837.8	12617.5	12433.6	12237.6	11326.0	9665.2	9343.1	8641.1	9265.6	10036.0	12275.6
55°	13080.9	12982.2	13210.1	13539.8	12710.2	10763.8	10388.5	9751.8	10596.6	11567.6	14665.7
57.5°	13600.6	13599.1	14070.1	14658.1	14135.4	11929.2	11550.8	11093.5	12093.3	13322.5	17203.2
60°	13951.6	14050.3	14925.5	16066.6	15534.8	13275.4	12927.5	12641.8	13795.1	15284.1	19567.5
62.5°	14135.4	14269.1	15463.4	16638.0	17513.2	15516.6	15168.7	14756.9	16046.9	17435.7	20950.2
65°	13371.1	13634.0	15379.9	17131.8	19245.3	19149.6	18993.1	18269.8	18862.4	19135.9	20450.3
67.5°	11256.1	11525.0	13558.0	16671.4	20482.2	22653.5	22686.9	21451.6	20594.6	19281.8	17194.1
70°	8019.6	8230.9	9912.9	13977.4	19540.1	24943.3	25057.2	22917.8	20249.7	17099.9	12012.8
72.5°	3807.7	3936.9	5529.3	9096.9	15506.0	22854.0	23074.3	21045.9	17218.4	12660.0	6553.4
75°	1399.4	1438.9	1868.9	3870.0	8993.6	16853.7	17113.5	15086.6	11414.1	6302.7	2496.5
77.5°	838.7	864.6	1048.4	1633.4	3537.3	9633.3	10017.7	8205.0	4988.3	2346.0	1227.7
80°	586.5	604.7	752.1	1016.5	1671.4	3671.0	4012.9	3348.9	1987.4	1484.5	893.4
82.5°	396.6	405.7	528.8	686.8	1110.7	1311.3	1414.6	1489.1	1340.2	1104.6	566.8
85°	259.8	268.9	358.6	452.8	706.5	677.7	692.9	876.7	978.5	750.6	314.5
87.5°	148.9	155.0	215.8	241.6	346.4	287.2	290.2	461.9	626.0	506.0	191.5
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°	3623.9	3623.9	3623.9	3623.9	3623.9	3623.9	3623.9	3623.9	3623.9	3623.9	3623.9
2.5°	3610.2	3590.5	3546.4	3519.0	3493.2	3487.1	3476.5	3475.0	3473.5	3473.5	3468.9
5°	3529.7	3496.3	3427.9	3389.9	3358.0	3354.9	3353.4	3361.0	3364.1	3367.1	3362.5
7.5°	3478.0	3432.4	3347.3	3292.6	3254.7	3245.5	3260.7	3295.7	3318.5	3327.6	3323.0
10°	3446.1	3389.9	3291.1	3231.9	3200.0	3195.4	3215.2	3256.2	3303.3	3321.5	3320.0
12.5°	3409.6	3345.8	3241.0	3178.7	3160.5	3169.6	3195.4	3233.4	3282.0	3310.9	3312.4
15°	3373.2	3298.7	3190.8	3136.1	3128.5	3140.7	3165.0	3193.9	3231.9	3260.7	3263.8
17.5°	3329.1	3251.6	3143.7	3087.5	3081.4	3087.5	3089.0	3104.2	3128.5	3155.9	3163.5
20°	3282.0	3203.0	3090.6	3034.3	3007.0	2982.7	2955.3	2958.4	2966.0	2993.3	2999.4
22.5°	3248.6	3169.6	3049.5	2972.0	2899.1	2826.2	2771.5	2763.9	2766.9	2789.7	2797.3
25°	3251.6	3168.0	3038.9	2905.2	2745.6	2628.6	2555.7	2543.6	2542.0	2558.8	2569.4
27.5°	3310.9	3227.3	3078.4	2836.8	2578.5	2405.3	2327.8	2318.7	2306.5	2311.1	2323.2
30°	3443.1	3365.6	3174.1	2766.9	2397.7	2186.5	2106.0	2096.8	2080.1	2072.5	2081.6
32.5°	3658.8	3595.0	3313.9	2700.1	2216.9	1999.6	1917.5	1897.8	1887.2	1878.0	1885.6
35°	4017.4	3990.1	3500.8	2627.1	2057.3	1855.2	1780.8	1750.4	1735.2	1751.9	1764.1
37.5°	4579.6	4594.8	3745.4	2513.2	1934.3	1759.5	1697.2	1662.3	1639.5	1653.2	1666.8
40°	5375.8	5386.4	4015.9	2352.1	1827.9	1703.3	1636.4	1604.5	1572.6	1548.3	1546.8
42.5°	6421.2	6313.3	4281.8	2177.4	1704.8	1668.4	1593.9	1554.4	1505.8	1438.9	1425.2
45°	7661.1	7282.7	4483.9	1976.8	1566.6	1625.8	1546.8	1492.1	1416.1	1343.2	1335.6
47.5°	9089.3	8323.5	4582.7	1768.6	1437.4	1563.5	1489.1	1402.5	1306.7	1270.3	1265.7
50°	10833.7	9558.8	4629.8	1566.6	1325.0	1481.5	1405.5	1303.7	1223.2	1215.6	1211.0
52.5°	12819.6	11044.9	4645.0	1400.9	1232.3	1375.1	1337.1	1238.4	1174.5	1180.6	1180.6
55°	14898.2	12579.5	4438.3	1280.9	1147.2	1265.7	1291.5	1212.5	1159.3	1183.7	1192.8
57.5°	16806.6	13939.4	3788.0	1188.2	1066.7	1182.1	1274.8	1236.8	1200.4	1299.1	1305.2
60°	18271.4	14743.2	2829.2	1104.6	1007.4	1153.3	1318.9	1329.5	1338.6	1574.1	1606.1
62.5°	18578.3	14475.8	1944.9	1039.3	980.0	1177.6	1399.4	1400.9	1390.3	1554.4	1574.1
65°	17169.8	12784.6	1414.6	1002.8	957.3	1221.6	1467.8	1435.9	1366.0	1490.6	1454.1
67.5°	13635.5	9631.8	1177.6	975.5	923.8	1218.6	1540.7	1467.8	1352.3	1460.2	1400.9
70°	8850.8	5824.0	1048.4	952.7	884.3	1160.9	1583.3	1464.7	1312.8	1358.4	1288.5
72.5°	4318.3	2604.3	961.8	919.3	843.3	1080.3	1581.7	1437.4	1271.8	1268.7	1230.8
75°	1689.6	1192.8	882.8	869.1	773.4	989.2	1539.2	1397.9	1223.2	1174.5	1160.9
77.5°	989.2	850.9	782.5	794.7	689.8	898.0	1476.9	1329.5	1156.3	1098.6	1083.4
80°	720.2	636.6	667.0	686.8	589.5	806.8	1393.3	1245.9	1081.8	1110.7	1089.4
82.5°	461.9	410.3	540.9	560.7	490.8	714.1	1302.2	1157.8	977.0	887.4	866.1
85°	235.5	259.8	402.7	427.0	378.3	586.5	1191.2	1040.8	858.5	738.5	750.6
87.5°	132.2	177.8	256.8	287.2	267.4	451.3	966.4	858.5	700.5	569.8	501.4
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)