

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: P191556

Luminaire Tested: **GLEON-AF-08-LED-E1-T4W-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191556  
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-600  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 4000K, 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: 31928.3 lumens  
Efficiency: N/A  
Efficacy: 124.2 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

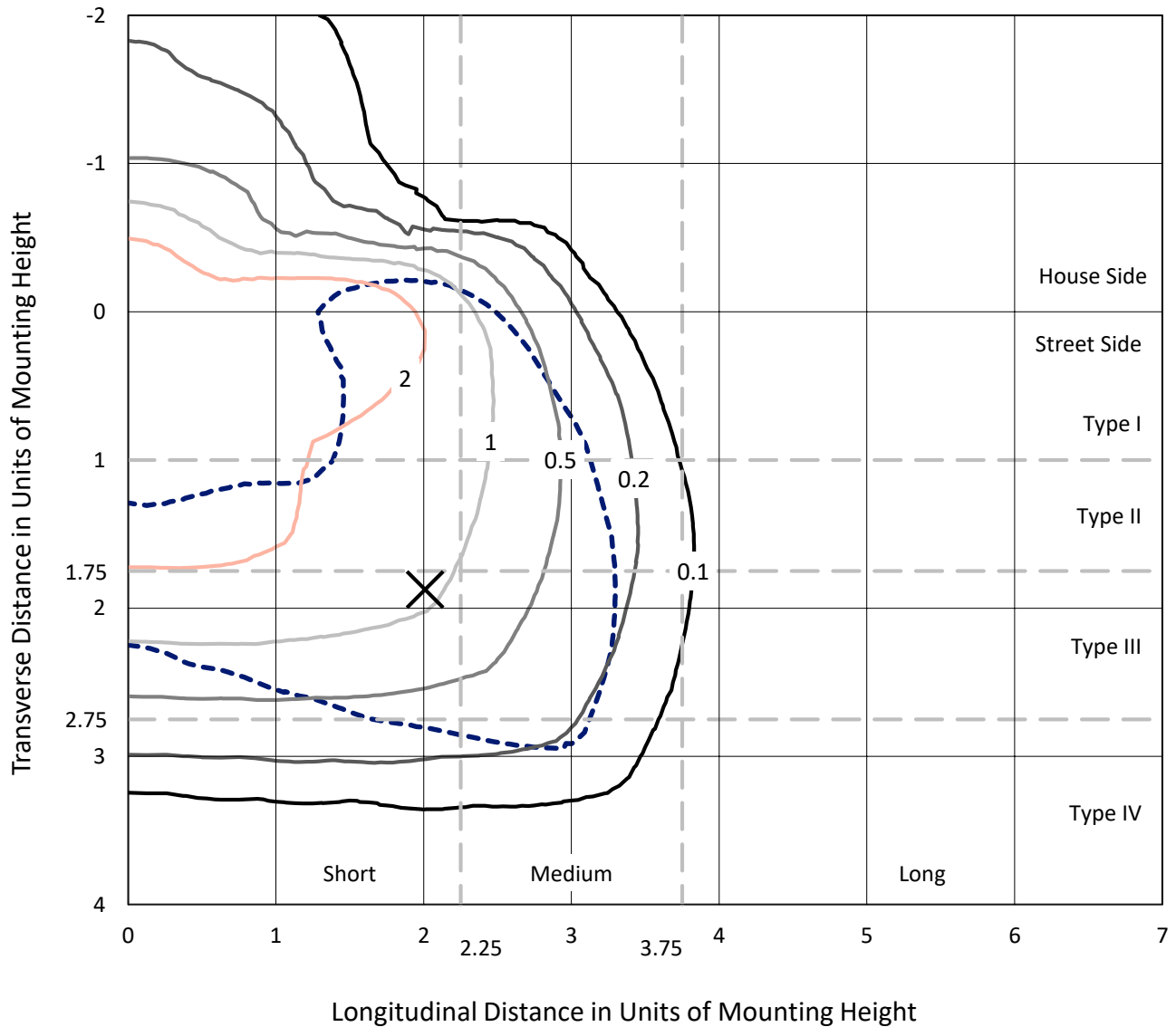
Input Watts (W): 257  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

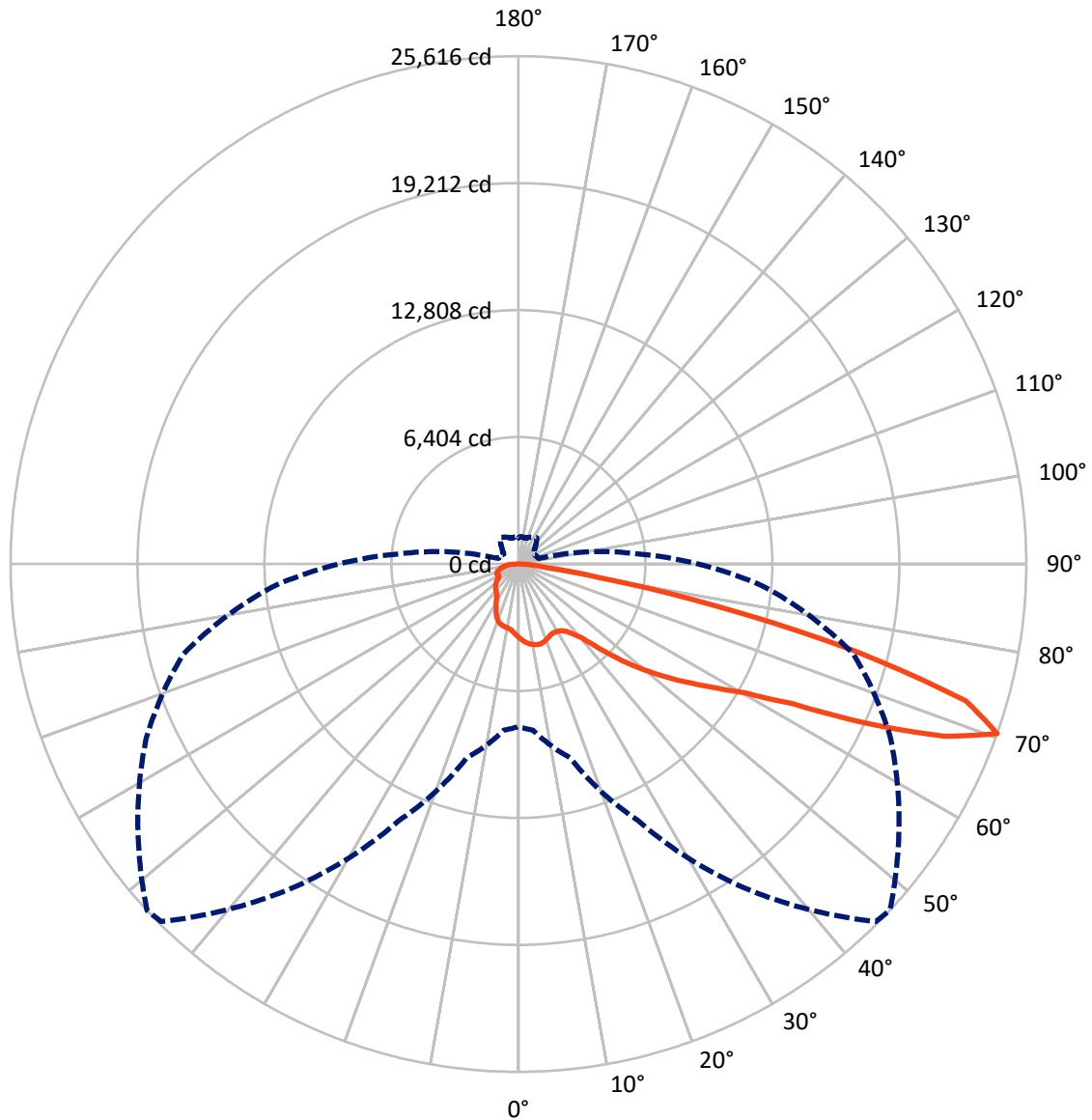
× Max cd  
 - - - 1/2 Max cd



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	6660.9	0.0	6660.9
	% Fixture	20.9	0.0	20.9
<b>Street Side</b>	Lumens	25267.5	0.0	25267.5
	% Fixture	79.1	0.0	79.1
<b>Total</b>	Lumens	31928.3	0.0	31928.3
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	355.0	1.1
10°-20°	1041.4	3.3
20°-30°	1537.9	4.8
30°-40°	2235.2	7.0
40°-50°	4022.7	12.6
50°-60°	6968.8	21.8
60°-70°	9946.5	31.2
70°-80°	5106.0	16.0
80°-90°	714.9	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°	31928.3	100.0
0°-180°	31928.3	100.0



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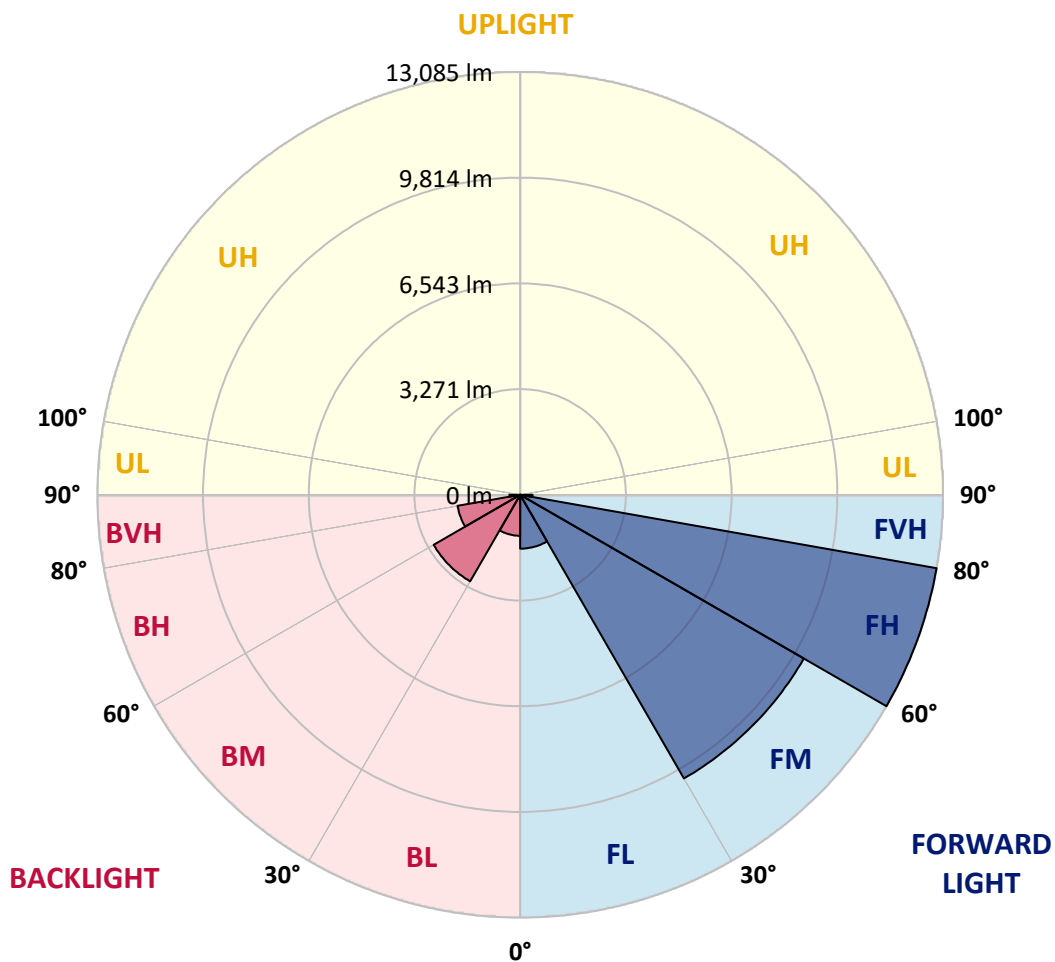
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1665.9	5.2			
FM	(30°-60°)	10135.0	31.7			
FH	(60°-80°)	13085.1	41.0			G5
FVH	(80°-90°)	381.4	1.2			G3/500
BL	(0°-30°)	1268.3	4.0	B3/2500		
BM	(30°-60°)	3091.8	9.7	B3/5000		
BH	(60°-80°)	1967.4	6.2	B3/2500		G3/2500
BVH	(80°-90°)	333.4	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°	3704.7	3704.7	3704.7	3704.7	3704.7	3704.7	3704.7	3704.7	3704.7	3704.7	3704.7
2.5°	3922.2	3914.4	3911.3	3905.0	3897.3	3858.5	3850.7	3822.8	3783.9	3743.5	3701.5
5°	4180.0	4178.4	4161.4	4130.3	4080.6	3995.1	3975.0	3906.6	3815.0	3726.4	3637.9
7.5°	4406.8	4392.8	4360.2	4298.0	4211.1	4094.6	4066.6	3971.8	3846.0	3724.9	3605.3
10°	4573.0	4565.2	4493.7	4408.3	4295.0	4166.1	4133.4	4027.8	3889.6	3735.7	3586.7
12.5°	4667.7	4652.2	4569.9	4467.3	4332.2	4206.4	4173.7	4066.6	3911.3	3735.7	3560.2
15°	4661.5	4650.6	4568.3	4456.5	4319.8	4209.5	4180.0	4072.8	3906.6	3720.2	3526.0
17.5°	4537.3	4541.9	4472.0	4361.8	4249.8	4166.1	4139.6	4040.2	3875.6	3689.2	3485.7
20°	4319.8	4341.5	4295.0	4197.1	4135.0	4077.5	4060.4	3976.5	3827.4	3644.1	3442.1
22.5°	4102.3	4122.5	4103.9	4021.5	4012.2	3978.1	3968.7	3908.2	3785.4	3616.1	3415.7
25°	3942.4	3961.0	3957.9	3886.4	3914.4	3912.8	3905.0	3875.6	3776.1	3616.1	3420.4
27.5°	3898.9	3905.0	3898.9	3833.6	3872.5	3903.5	3897.3	3892.6	3804.0	3661.1	3479.5
30°	4047.9	4038.6	3990.5	3858.5	3894.2	3937.6	3931.5	3934.6	3887.9	3779.3	3611.5
32.5°	4642.9	4600.9	4448.7	4077.5	3982.8	4006.0	4009.1	4060.4	4068.2	3961.0	3816.5
35°	5532.9	5486.4	5289.1	4664.7	4257.6	4176.9	4176.9	4254.6	4301.2	4221.9	4135.0
37.5°	6475.8	6424.5	6319.0	5478.6	4835.5	4473.6	4465.8	4520.2	4587.0	4605.6	4627.3
40°	7547.6	7493.2	7522.8	6391.9	5641.7	4987.7	4877.4	4838.7	5018.8	5138.4	5312.4
42.5°	8720.3	8695.5	8706.4	7409.3	6559.7	5756.7	5599.7	5399.3	5616.8	5829.6	6194.7
45°	9806.1	9827.9	9817.1	8498.3	7581.8	6694.8	6528.7	6140.3	6353.1	6718.1	7313.1
47.5°	10756.7	10666.7	10806.5	9688.1	8726.6	7744.9	7539.9	7019.5	7235.4	7685.8	8692.4
50°	11910.9	11898.5	11693.5	11275.6	10110.6	8799.6	8530.9	7928.2	8263.7	8889.6	10430.6
52.5°	13124.0	12898.8	12710.9	12510.5	11578.5	9880.7	9551.4	8833.8	9472.2	10259.7	12549.4
55°	13372.6	13271.7	13504.6	13841.6	12993.5	11003.8	10620.1	9969.3	10832.8	11825.5	14992.7
57.5°	13903.8	13902.3	14383.8	14984.9	14450.6	12195.1	11808.3	11340.8	12362.9	13619.6	17586.8
60°	14262.6	14363.6	15258.3	16424.9	15881.2	13571.4	13215.7	12923.7	14102.6	15624.9	20003.7
62.5°	14450.6	14587.3	15808.2	17008.9	17903.6	15862.6	15506.8	15085.9	16404.7	17824.4	21417.2
65°	13669.3	13938.0	15722.8	17513.7	19674.4	19576.5	19416.5	18677.1	19283.0	19562.6	20906.3
67.5°	11507.1	11781.9	13860.4	17043.1	20938.8	23158.5	23192.8	21929.8	21053.8	19711.8	17577.5
70°	8198.4	8414.4	10133.9	14289.1	19975.8	25499.4	25615.9	23428.8	20701.1	17481.1	12280.6
72.5°	3892.6	4024.7	5652.5	9299.7	15851.6	23363.6	23588.8	21515.1	17602.3	12942.3	6699.5
75°	1430.6	1471.0	1910.6	3956.4	9194.2	17229.5	17495.1	15422.9	11668.6	6443.2	2552.2
77.5°	857.4	883.8	1071.7	1669.9	3616.1	9848.0	10241.1	8388.0	5099.6	2398.3	1255.1
80°	599.6	618.3	768.8	1039.2	1708.6	3752.8	4102.3	3423.5	2031.8	1517.6	913.4
82.5°	405.4	414.7	540.5	702.2	1135.5	1340.5	1446.1	1522.3	1370.0	1129.2	579.4
85°	265.7	275.0	366.6	462.9	722.3	692.7	708.3	896.3	1000.3	767.3	321.5
87.5°	152.2	158.5	220.5	246.9	354.1	293.6	296.7	472.2	640.0	517.3	195.7
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°	3704.7	3704.7	3704.7	3704.7	3704.7	3704.7	3704.7	3704.7	3704.7	3704.7	3704.7
2.5°	3690.7	3670.6	3625.4	3597.5	3571.1	3564.9	3554.0	3552.5	3550.9	3550.9	3546.3
5°	3608.4	3574.2	3504.3	3465.5	3432.8	3429.7	3428.2	3436.0	3439.1	3442.1	3437.5
7.5°	3555.6	3508.9	3422.0	3366.0	3327.2	3317.9	3333.4	3369.2	3392.5	3401.8	3397.1
10°	3522.9	3465.5	3364.5	3303.9	3271.3	3266.7	3286.8	3328.8	3377.0	3395.6	3394.0
12.5°	3485.7	3420.4	3313.2	3249.6	3230.9	3240.2	3266.7	3305.5	3355.2	3384.7	3386.3
15°	3448.4	3372.3	3262.0	3206.0	3198.3	3210.7	3235.6	3265.1	3303.9	3333.4	3336.6
17.5°	3403.4	3324.1	3213.8	3156.3	3150.2	3156.3	3158.0	3173.4	3198.3	3226.3	3234.1
20°	3355.2	3274.4	3159.5	3102.0	3074.1	3049.2	3021.2	3024.4	3032.1	3060.1	3066.3
22.5°	3321.0	3240.2	3117.5	3038.3	2963.8	2889.2	2833.3	2825.5	2828.6	2851.9	2859.7
25°	3324.1	3238.7	3106.7	2969.9	2806.9	2687.3	2612.7	2600.2	2598.7	2615.8	2626.6
27.5°	3384.7	3299.2	3147.0	2900.1	2636.0	2458.9	2379.7	2370.4	2357.9	2362.6	2375.0
30°	3519.9	3440.6	3244.9	2828.6	2451.2	2235.2	2152.9	2143.6	2126.5	2118.7	2128.0
32.5°	3740.4	3675.2	3387.8	2760.2	2266.3	2044.2	1960.3	1940.1	1929.2	1919.9	1927.6
35°	4106.9	4079.0	3578.9	2685.7	2103.2	1896.7	1820.5	1789.4	1773.9	1791.0	1803.4
37.5°	4681.7	4697.3	3828.9	2569.2	1977.4	1798.8	1735.0	1699.3	1676.0	1690.0	1704.0
40°	5495.7	5506.5	4105.4	2404.5	1868.6	1741.3	1672.9	1640.3	1607.7	1582.8	1581.3
42.5°	6564.4	6454.1	4377.3	2225.9	1742.8	1705.6	1629.5	1589.1	1539.3	1471.0	1457.0
45°	7831.9	7445.1	4583.8	2020.8	1601.4	1662.1	1581.3	1525.3	1447.7	1373.1	1365.3
47.5°	9292.0	8509.1	4684.8	1808.1	1469.5	1598.4	1522.3	1433.8	1335.9	1298.5	1293.9
50°	11075.2	9771.9	4733.0	1601.4	1354.5	1514.5	1436.8	1332.8	1250.5	1242.7	1238.0
52.5°	13105.4	11291.1	4748.5	1432.1	1259.8	1405.7	1367.0	1266.0	1200.7	1207.0	1207.0
55°	15230.4	12860.0	4537.3	1309.5	1172.7	1293.9	1320.3	1239.5	1185.2	1210.0	1219.4
57.5°	17181.4	14250.2	3872.5	1214.7	1090.5	1208.5	1303.2	1264.4	1227.1	1328.1	1334.3
60°	18678.8	15072.0	2892.3	1129.2	1029.8	1179.0	1348.2	1359.2	1368.5	1609.2	1641.8
62.5°	18992.5	14798.5	1988.2	1062.4	1001.9	1203.8	1430.6	1432.1	1421.3	1589.1	1609.2
65°	17552.6	13069.7	1446.1	1025.2	978.6	1248.9	1500.5	1467.9	1396.4	1523.8	1486.6
67.5°	13939.5	9846.5	1203.8	997.3	944.4	1245.7	1575.0	1500.5	1382.4	1492.8	1432.1
70°	9048.1	5953.9	1071.7	974.0	904.1	1186.7	1618.6	1497.4	1342.1	1388.7	1317.3
72.5°	4414.5	2662.4	983.3	939.8	862.1	1104.4	1617.0	1469.5	1300.2	1297.0	1258.2
75°	1727.3	1219.4	902.4	888.5	790.6	1011.2	1573.5	1429.1	1250.5	1200.7	1186.7
77.5°	1011.2	869.8	799.9	812.4	705.2	918.0	1509.9	1359.2	1182.1	1123.1	1107.5
80°	736.3	650.8	681.9	702.2	602.7	824.8	1424.4	1273.7	1106.0	1135.5	1113.7
82.5°	472.2	419.4	553.0	573.2	501.8	730.1	1331.2	1183.7	998.8	907.2	885.4
85°	240.8	265.7	411.6	436.5	386.8	599.6	1217.8	1064.1	877.6	754.9	767.3
87.5°	135.1	181.8	262.5	293.6	273.4	461.4	988.0	877.6	716.1	582.5	512.6
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)