

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: P191462

Luminaire Tested: **GLEON-AF-04-LED-E1-T3-1200**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191462  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24140)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GLEON-AF-04-LED-E1-T3-1200  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 26950.6 lumens  
Efficiency: N/A  
Efficacy: 104.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short - Full Cutoff  
BUG Rating: B3 - U0 - G4

Input Watts (W): 258  
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

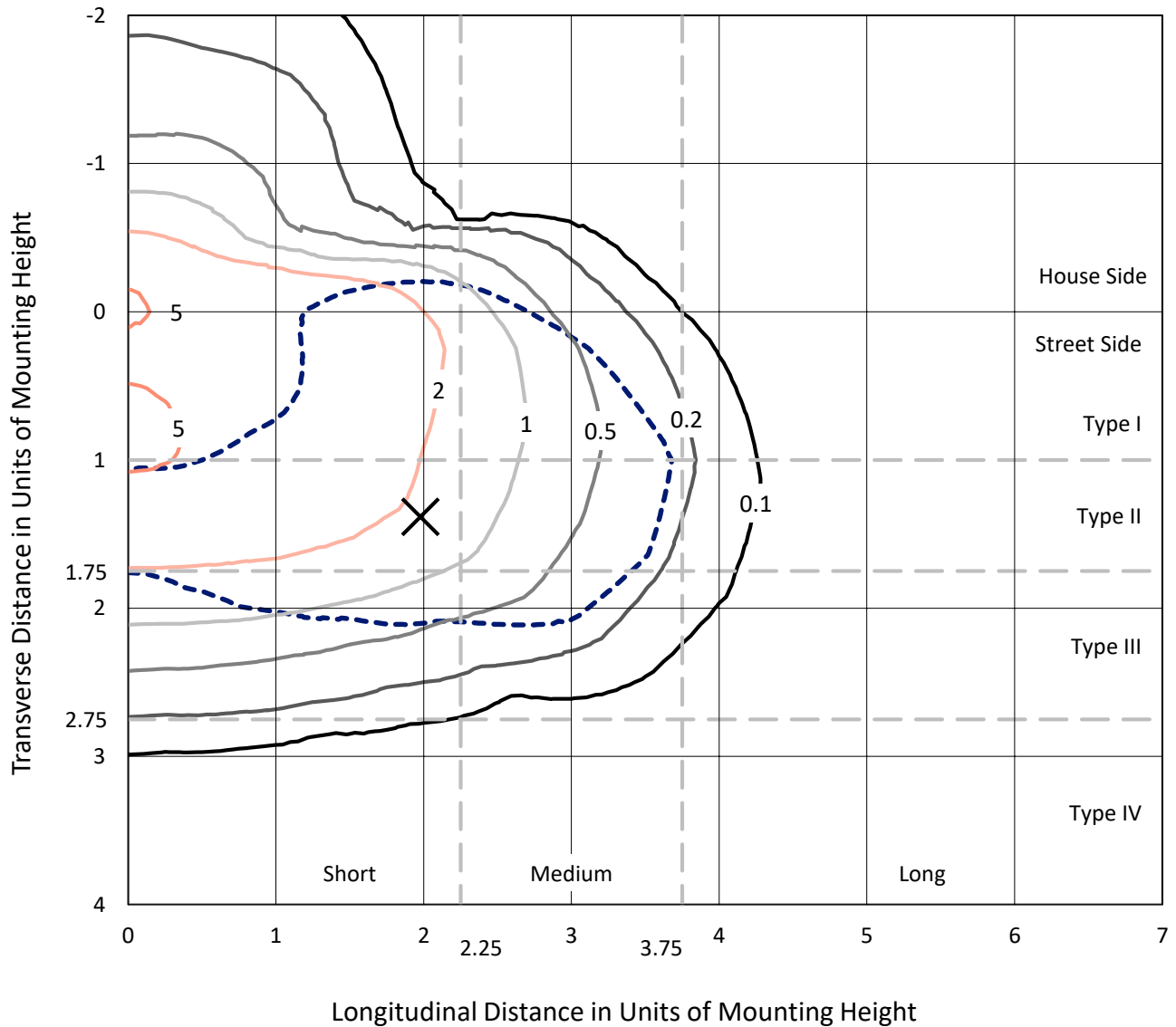


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

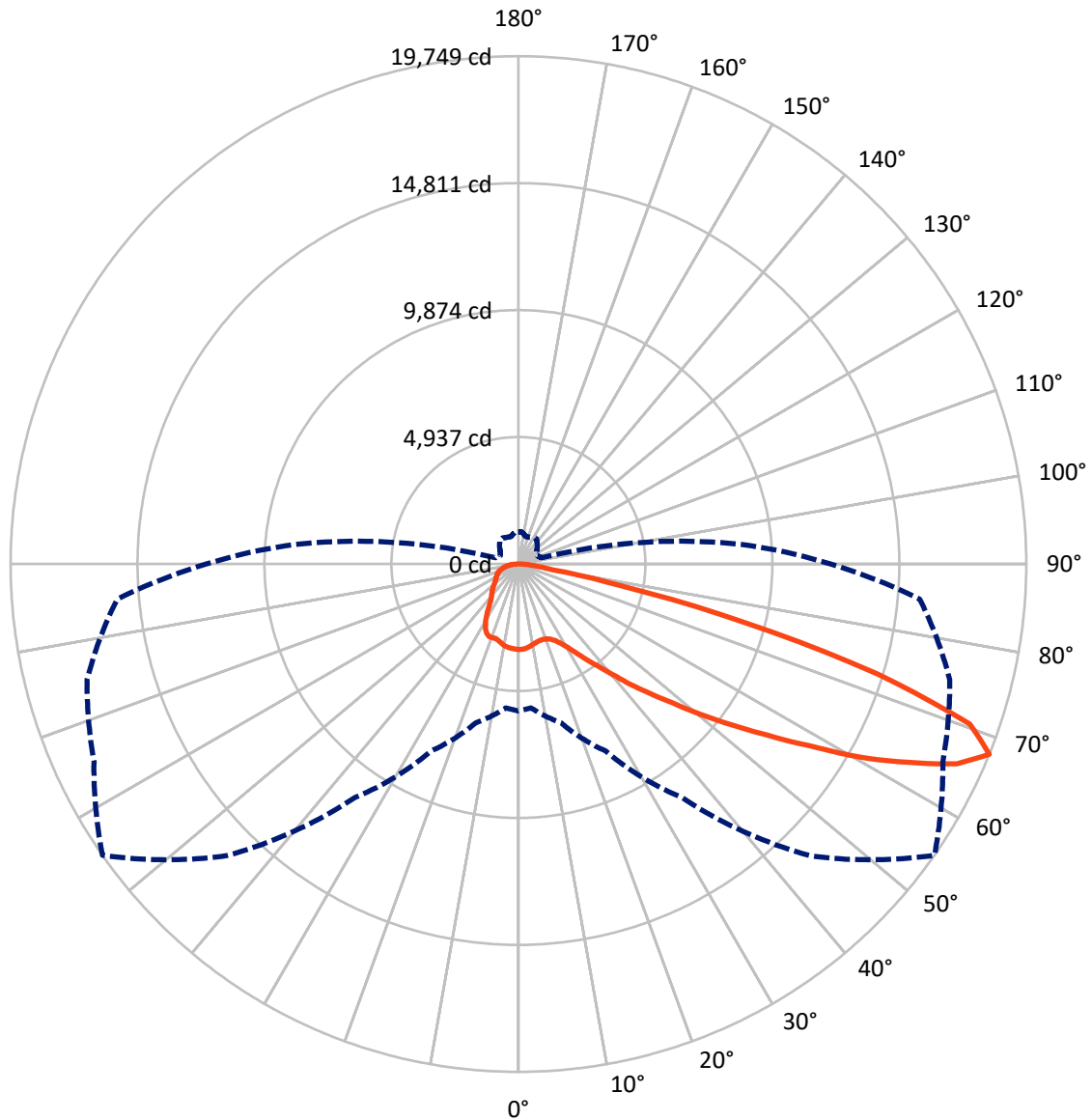


Based on 25 foot mounting height. Maximum calculated value = 5.5 fc  
 Type III - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5821.9	0.0	5821.9
	% Fixture	21.6	0.0	21.6
<b>Street Side</b>	Lumens	21128.7	0.0	21128.7
	% Fixture	78.4	0.0	78.4
<b>Total</b>	Lumens	26950.6	0.0	26950.6
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	310.2	1.2
10°-20°	878.5	3.3
20°-30°	1471.6	5.5
30°-40°	2420.0	9.0
40°-50°	4073.6	15.1
50°-60°	6411.5	23.8
60°-70°	7651.5	28.4
70°-80°	3285.7	12.2
80°-90°	448.0	1.7
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°	26950.6	100.0
0°-180°	26950.6	100.0



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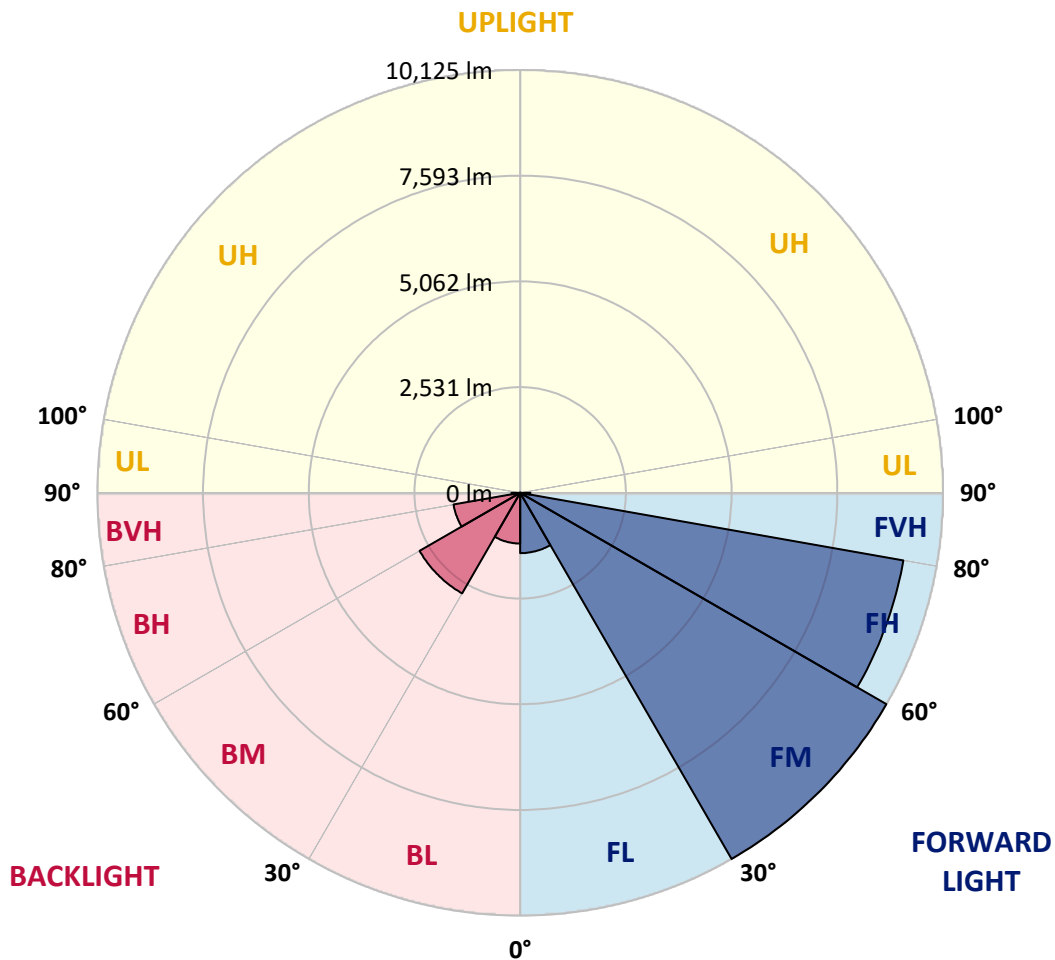
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1444.6	5.4			
FM (30°-60°)	10124.7	37.6			
FH (60°-80°)	9317.0	34.6			G4/12000
FVH (80°-90°)	242.5	0.9			G3/500
BL (0°-30°)	1215.7	4.5	B3/2500		
BM (30°-60°)	2780.5	10.3	B3/5000		
BH (60°-80°)	1620.2	6.0	B3/2500		G3/2500
BVH (80°-90°)	205.5	0.8			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3323.3	3323.3	3323.3	3323.3	3323.3	3323.3	3323.3	3323.3	3323.3	3323.3	3323.3
2.5°	3294.7	3295.9	3298.6	3309.0	3318.1	3315.5	3316.8	3311.6	3310.3	3302.5	3310.3
5°	3253.0	3257.0	3258.2	3275.2	3285.5	3288.2	3284.3	3277.7	3270.0	3262.1	3266.1
7.5°	3158.0	3168.4	3169.7	3193.1	3210.0	3232.2	3233.4	3234.8	3230.9	3225.7	3233.4
10°	3098.1	3100.7	3099.4	3116.3	3129.3	3154.1	3168.4	3193.1	3203.6	3206.1	3211.3
12.5°	3094.2	3091.6	3087.7	3087.7	3083.8	3094.2	3120.2	3155.4	3180.1	3187.9	3194.5
15°	3135.9	3134.5	3121.5	3102.0	3077.2	3069.5	3091.6	3130.6	3163.2	3180.1	3186.6
17.5°	3229.6	3221.8	3200.9	3156.7	3103.3	3082.5	3085.1	3117.6	3155.4	3177.5	3184.0
20°	3401.4	3401.4	3357.1	3273.9	3178.8	3129.3	3105.9	3125.4	3161.9	3191.8	3200.9
22.5°	3698.2	3700.8	3626.6	3489.9	3329.8	3224.3	3165.8	3161.9	3204.9	3238.7	3249.1
25°	4118.7	4108.3	4004.1	3808.9	3565.4	3391.0	3289.5	3266.1	3302.5	3340.2	3353.2
27.5°	4608.1	4570.3	4446.7	4211.1	3896.1	3640.9	3484.7	3446.9	3482.1	3525.1	3538.1
30°	5092.4	5053.3	4906.2	4648.5	4298.3	3975.5	3751.6	3690.4	3739.9	3801.1	3808.9
32.5°	5576.6	5576.6	5412.5	5111.9	4730.4	4375.1	4106.9	4034.0	4116.0	4190.2	4207.2
35°	6155.9	6158.5	5999.7	5637.8	5227.7	4851.5	4556.0	4502.7	4626.3	4678.4	4718.8
37.5°	6867.9	6882.2	6677.8	6240.5	5791.4	5395.7	5044.2	4971.3	5095.0	5236.9	5367.0
40°	7637.2	7655.5	7430.3	6891.3	6442.2	6028.4	5648.2	5516.7	5722.4	5993.2	6161.0
42.5°	8371.4	8465.1	8247.7	7693.2	7210.3	6782.0	6396.7	6205.3	6463.1	6871.8	7017.6
45°	9432.3	9500.0	9121.2	8618.8	8164.5	7685.4	7175.1	6973.4	7333.9	7849.4	7879.4
47.5°	10139.2	10088.3	9895.7	9583.3	9295.7	8847.8	8079.8	7858.5	8337.6	8944.2	8776.2
50°	10515.3	10531.0	10505.0	10523.2	10533.6	10252.4	9188.9	8885.6	9457.1	10189.9	9803.3
52.5°	10866.8	10762.7	10848.6	11275.6	11791.0	11686.9	10395.6	10079.2	10657.2	11572.3	10888.9
55°	10859.0	10700.2	10980.0	11733.8	12851.9	12971.7	11750.7	11386.3	11926.4	13055.0	12039.7
57.5°	10475.0	10482.8	10913.7	11900.4	13591.3	14179.7	13323.2	12776.5	13272.4	14557.2	13090.2
60°	9946.5	10018.1	10639.0	11873.1	14183.6	15170.4	15252.3	14274.8	14591.1	15922.7	13959.7
62.5°	9093.8	9169.3	10025.9	11589.3	14093.8	16124.5	16996.6	15974.8	15969.6	16750.6	14214.8
65°	7749.2	7727.1	8626.5	10528.4	13340.1	16830.0	18729.3	17444.5	17008.4	16763.6	13702.0
67.5°	5714.6	5615.7	6387.6	8018.6	11088.1	16039.9	19748.5	18209.9	17362.4	15661.1	12134.8
70°	2965.3	2866.4	3491.2	4682.4	7292.3	12518.7	18620.0	17814.2	16580.1	13127.9	9506.5
72.5°	1267.8	1251.0	1504.8	2054.1	3527.6	7220.7	14600.2	15418.9	14226.6	9781.1	6535.9
75°	852.6	847.4	942.4	1119.5	1586.8	2930.1	9136.8	10945.0	10408.6	6064.8	3676.1
77.5°	669.1	662.6	718.5	804.4	1028.4	1155.9	4054.9	5876.0	5438.6	2639.9	1608.9
80°	523.3	518.1	553.2	600.1	739.4	729.0	1334.2	2338.0	1809.4	1011.4	782.4
82.5°	412.7	412.7	441.3	442.6	524.6	497.3	696.4	1029.7	903.4	589.7	479.0
85°	377.5	377.5	407.4	330.6	342.4	313.7	432.2	610.5	572.8	242.1	208.3
87.5°	190.1	184.8	342.4	292.9	186.2	166.6	210.8	295.5	317.6	134.1	104.1
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):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3323.3	3323.3	3323.3	3323.3	3323.3	3323.3	3323.3	3323.3	3323.3	3323.3
2.5°	3307.7	3306.4	3309.0	3310.3	3320.7	3335.0	3341.6	3350.7	3355.9	3353.2
5°	3268.6	3271.2	3281.6	3289.5	3307.7	3331.1	3344.1	3354.6	3363.7	3359.8
7.5°	3236.1	3242.7	3258.2	3264.7	3275.2	3281.6	3280.4	3284.3	3292.1	3283.0
10°	3217.9	3225.7	3237.4	3228.3	3203.6	3168.4	3135.9	3119.0	3124.2	3117.6
12.5°	3199.7	3210.0	3200.9	3158.0	3089.0	3043.5	3018.7	3021.3	3033.0	3035.6
15°	3189.3	3193.1	3154.1	3073.4	3003.1	2996.5	3009.6	3007.0	3008.3	3008.3
17.5°	3189.3	3178.8	3105.9	3025.2	2995.3	2983.5	2943.2	2892.4	2870.3	2862.5
20°	3206.1	3178.8	3090.3	3036.9	2971.9	2871.6	2764.8	2671.1	2629.5	2617.7
22.5°	3257.0	3210.0	3134.5	3042.2	2857.3	2689.3	2520.1	2408.2	2332.7	2319.6
25°	3359.8	3307.7	3221.8	2973.1	2675.0	2435.5	2242.9	2117.9	2042.4	2032.0
27.5°	3539.4	3505.6	3268.6	2820.9	2432.9	2176.5	1998.1	1901.9	1845.8	1841.9
30°	3810.2	3793.2	3245.2	2595.6	2134.8	1925.3	1839.4	1783.4	1741.7	1740.4
32.5°	4242.4	4105.6	3168.4	2321.0	1862.8	1746.9	1711.8	1677.9	1645.4	1645.4
35°	4798.2	4358.2	3022.6	2026.8	1697.5	1648.0	1603.7	1550.4	1507.4	1504.8
37.5°	5451.6	4514.4	2760.9	1789.9	1619.3	1581.6	1516.5	1437.1	1361.6	1348.6
40°	6111.6	4561.2	2392.6	1644.1	1569.9	1515.2	1435.8	1342.1	1269.2	1265.3
42.5°	6716.9	4471.4	2002.0	1543.8	1520.4	1447.5	1364.2	1280.9	1223.7	1222.3
45°	7224.6	4238.4	1674.1	1448.8	1468.3	1386.3	1312.1	1244.4	1200.2	1191.1
47.5°	7702.3	3909.1	1443.6	1348.6	1416.3	1352.5	1290.0	1226.2	1183.2	1176.8
50°	8256.8	3553.7	1282.2	1251.0	1370.8	1340.8	1308.3	1241.9	1170.3	1162.5
52.5°	8928.5	3246.5	1155.9	1165.0	1335.6	1356.4	1355.1	1286.2	1161.2	1150.7
55°	9678.3	2905.5	1060.9	1094.8	1321.2	1385.1	1366.8	1327.8	1168.9	1153.4
57.5°	10416.4	2507.2	994.5	1041.4	1300.4	1382.4	1310.8	1254.9	1187.1	1165.0
60°	10969.6	1972.1	943.8	994.5	1254.9	1339.5	1249.6	1175.5	1183.2	1166.4
62.5°	11006.1	1524.3	882.6	954.2	1185.9	1296.5	1209.3	1140.3	1200.2	1184.6
65°	10359.1	1152.0	824.0	906.0	1111.6	1269.2	1170.3	1120.7	1235.3	1218.4
67.5°	8721.6	926.8	774.6	856.5	1037.5	1211.9	1135.1	1102.5	1266.6	1236.6
70°	6296.5	790.1	726.4	796.7	971.1	1146.8	1103.9	1070.0	1182.0	1135.1
72.5°	3876.6	684.7	671.7	717.3	920.3	1079.1	1057.0	1008.8	1064.8	1027.0
75°	1935.6	593.6	610.5	639.1	848.7	1002.3	978.9	930.8	938.6	930.8
77.5°	926.8	507.7	538.9	561.1	756.3	915.1	890.4	840.9	831.8	833.1
80°	587.1	424.3	454.3	469.9	675.6	813.6	788.8	739.4	843.5	782.4
82.5°	367.1	344.9	352.8	381.4	588.4	708.2	675.6	631.4	760.3	601.4
85°	203.1	240.8	251.2	276.0	453.0	592.3	559.8	503.8	451.7	443.9
87.5°	121.0	143.2	147.1	165.3	304.6	428.3	378.8	359.3	298.1	296.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)