

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: P191573

Luminaire Tested: **GLEON-AF-05-LED-E1-T4W**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191573  
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-05-LED-E1-T4W  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 4000K, 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: 30221 lumens  
Efficiency: N/A  
Efficacy: 108.3 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

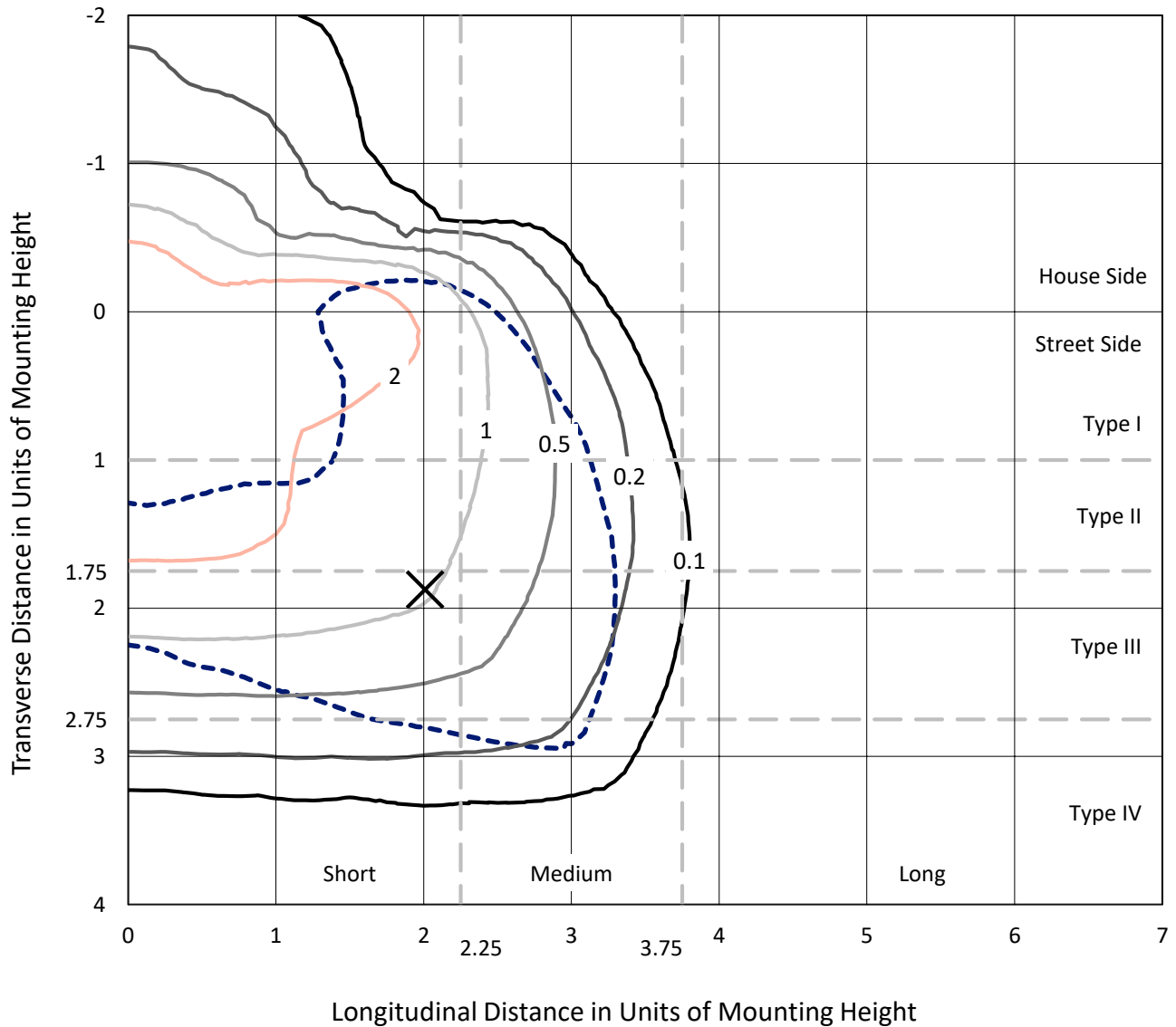
Input Watts (W): 279  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

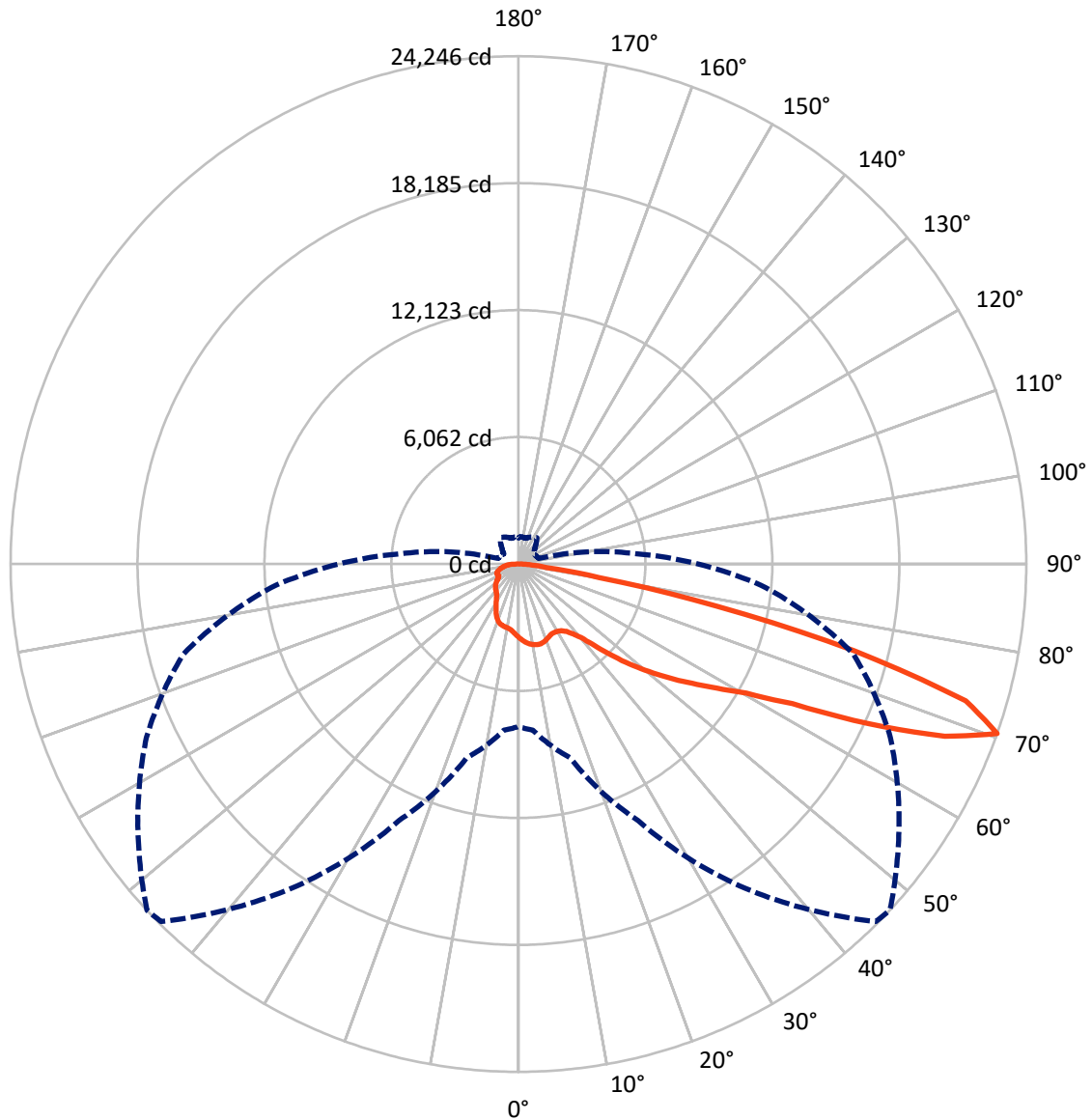
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.5 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	6304.7	0.0	6304.7
	% Fixture	20.9	0.0	20.9
<b>Street Side</b>	Lumens	23916.3	0.0	23916.3
	% Fixture	79.1	0.0	79.1
<b>Total</b>	Lumens	30221.0	0.0	30221.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	336.0	1.1
10°-20°	985.7	3.3
20°-30°	1455.6	4.8
30°-40°	2115.7	7.0
40°-50°	3807.6	12.6
50°-60°	6596.2	21.8
60°-70°	9414.7	31.2
70°-80°	4833.0	16.0
80°-90°	676.6	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°	30221.0	100.0
0°-180°	30221.0	100.0



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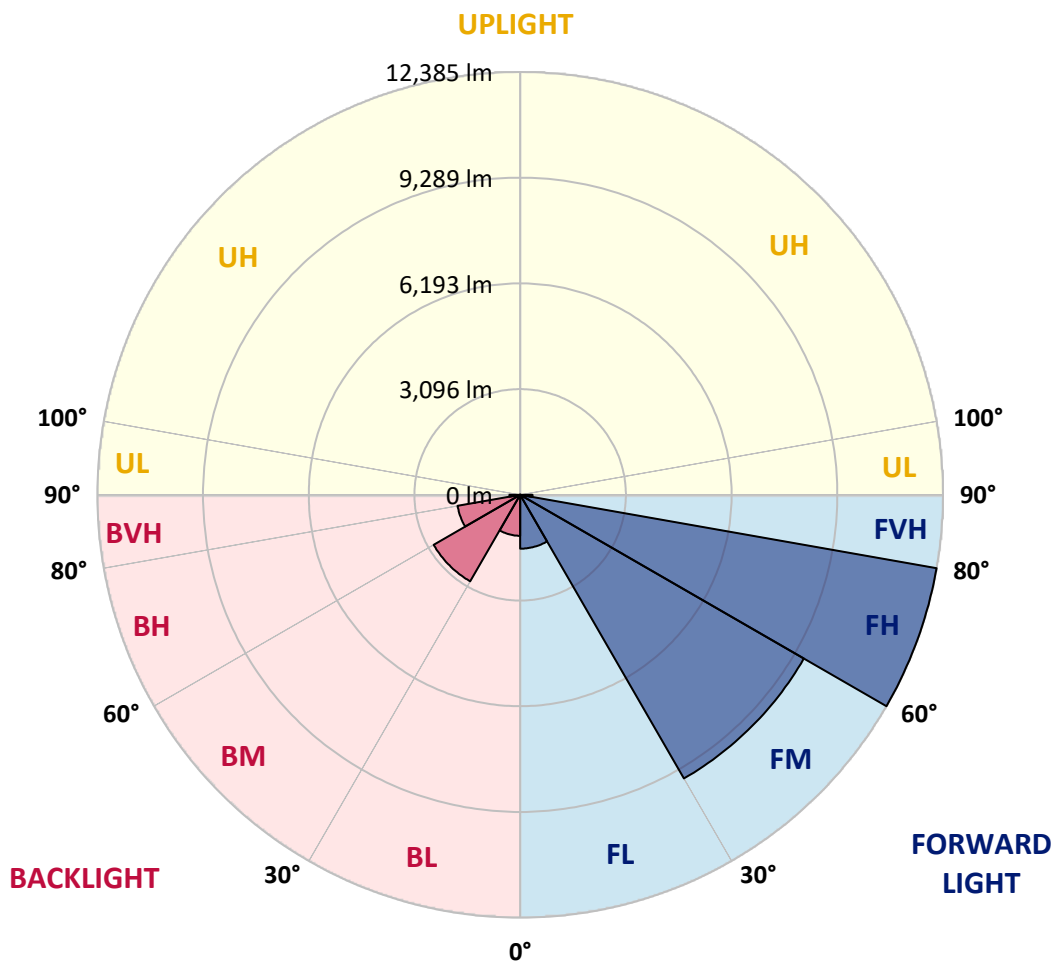
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1576.9	5.2			
FM	(30°-60°)	9593.0	31.7			
FH	(60°-80°)	12385.4	41.0			G5
FVH	(80°-90°)	361.1	1.2			G3/500
BL	(0°-30°)	1200.5	4.0	B3/2500		
BM	(30°-60°)	2926.5	9.7	B3/5000		
BH	(60°-80°)	1862.2	6.2	B3/2500		G3/2500
BVH	(80°-90°)	315.6	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°	3506.6	3506.6	3506.6	3506.6	3506.6	3506.6	3506.6	3506.6	3506.6	3506.6	3506.6
2.5°	3712.4	3705.0	3702.2	3696.2	3688.9	3652.1	3644.8	3618.3	3581.6	3543.3	3503.6
5°	3956.5	3955.0	3938.9	3909.4	3862.4	3781.5	3762.4	3697.8	3611.0	3527.1	3443.4
7.5°	4171.2	4157.9	4127.0	4068.2	3985.9	3875.7	3849.2	3759.4	3640.4	3525.7	3412.5
10°	4328.4	4321.1	4253.4	4172.6	4065.3	3943.3	3912.4	3812.4	3681.5	3536.0	3394.9
12.5°	4418.1	4403.4	4325.5	4228.5	4100.6	3981.4	3950.6	3849.2	3702.2	3536.0	3369.8
15°	4412.3	4402.0	4324.0	4218.2	4088.8	3984.4	3956.5	3855.0	3697.8	3521.3	3337.5
17.5°	4294.7	4299.1	4232.9	4128.5	4022.7	3943.3	3918.2	3824.2	3668.3	3491.8	3299.3
20°	4088.8	4109.4	4065.3	3972.6	3913.8	3859.5	3843.2	3763.8	3622.8	3449.3	3258.1
22.5°	3883.0	3902.0	3884.5	3806.5	3797.7	3765.4	3756.5	3699.2	3583.0	3422.8	3233.1
25°	3731.5	3749.2	3746.3	3678.6	3705.0	3703.6	3696.2	3668.3	3574.2	3422.8	3237.5
27.5°	3690.4	3696.2	3690.4	3628.6	3665.3	3694.8	3688.9	3684.5	3600.7	3465.5	3293.4
30°	3831.5	3822.7	3777.1	3652.1	3686.0	3727.1	3721.3	3724.2	3680.1	3577.2	3418.4
32.5°	4394.6	4354.9	4210.9	3859.5	3769.8	3791.8	3794.7	3843.2	3850.6	3749.2	3612.4
35°	5237.1	5193.0	5006.2	4415.2	4030.0	3953.5	3953.5	4027.1	4071.1	3996.2	3913.8
37.5°	6129.5	6081.0	5981.0	5185.6	4576.9	4234.4	4227.0	4278.5	4341.7	4359.3	4380.0
40°	7144.0	7092.5	7120.5	6050.1	5340.0	4721.0	4616.7	4579.9	4750.4	4863.6	5028.3
42.5°	8254.1	8230.6	8240.8	7013.1	6208.9	5448.8	5300.3	5110.7	5316.5	5517.9	5863.5
45°	9281.7	9302.4	9292.1	8043.8	7176.4	6336.9	6179.5	5812.0	6013.4	6358.9	6922.0
47.5°	10181.5	10096.3	10228.6	9170.0	8259.9	7330.8	7136.6	6644.2	6848.5	7274.9	8227.6
50°	11273.9	11262.2	11068.1	10672.7	9569.9	8329.1	8074.7	7504.3	7821.8	8414.3	9872.8
52.5°	12422.3	12209.1	12031.1	11841.5	10959.4	9352.3	9040.6	8361.4	8965.7	9711.1	11878.3
55°	12657.5	12561.9	12782.5	13101.5	12298.7	10415.4	10052.2	9436.1	10253.6	11193.1	14191.0
57.5°	13160.4	13158.8	13614.7	14183.6	13677.9	11543.1	11177.0	10734.4	11701.8	12891.3	16646.4
60°	13500.0	13595.5	14442.4	15546.6	15032.0	12845.7	12509.1	12232.7	13348.5	14789.4	18934.1
62.5°	13677.9	13807.3	14962.9	16099.4	16946.3	15014.4	14677.6	14279.2	15527.5	16871.3	20272.0
65°	12938.3	13192.7	14882.0	16577.2	18622.4	18529.7	18378.3	17678.4	18251.9	18516.5	19788.3
67.5°	10891.8	11152.0	13119.1	16131.7	19819.2	21920.2	21952.5	20757.2	19928.0	18657.7	16637.5
70°	7760.1	7964.4	9592.0	13524.9	18907.6	24135.9	24246.1	22176.0	19594.2	16546.3	11623.9
72.5°	3684.5	3809.5	5350.3	8802.5	15004.0	22114.3	22327.4	20364.6	16661.0	12250.2	6341.3
75°	1354.1	1392.3	1808.5	3744.7	8702.4	16308.2	16559.6	14598.2	11044.6	6098.6	2415.6
77.5°	811.6	836.6	1014.5	1580.6	3422.8	9321.4	9693.5	7939.4	4826.9	2270.1	1188.0
80°	567.5	585.1	727.8	983.6	1617.3	3552.2	3883.0	3240.5	1923.1	1436.4	864.5
82.5°	383.7	392.6	511.7	664.5	1074.8	1268.9	1368.8	1440.8	1296.8	1068.9	548.4
85°	251.4	260.2	347.0	438.1	683.6	655.7	670.4	848.3	946.8	726.3	304.3
87.5°	144.1	150.0	208.8	233.7	335.2	277.8	280.8	446.9	605.8	489.6	185.3
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°	3506.6	3506.6	3506.6	3506.6	3506.6	3506.6	3506.6	3506.6	3506.6	3506.6	3506.6
2.5°	3493.4	3474.2	3431.6	3405.1	3380.1	3374.3	3364.0	3362.5	3361.0	3361.0	3356.6
5°	3415.4	3383.1	3316.9	3280.2	3249.3	3246.3	3244.9	3252.3	3255.1	3258.1	3253.7
7.5°	3365.4	3321.3	3239.0	3186.1	3149.3	3140.5	3155.2	3189.0	3211.0	3219.8	3215.4
10°	3334.5	3280.2	3184.5	3127.3	3096.4	3092.0	3111.1	3150.8	3196.3	3214.0	3212.6
12.5°	3299.3	3237.5	3136.1	3075.8	3058.1	3067.0	3092.0	3128.7	3175.8	3203.7	3205.2
15°	3264.0	3191.9	3087.6	3034.6	3027.3	3039.1	3062.5	3090.5	3127.3	3155.2	3158.2
17.5°	3221.4	3146.4	3041.9	2987.5	2981.7	2987.5	2989.1	3003.8	3027.3	3053.7	3061.1
20°	3175.8	3099.3	2990.5	2936.1	2909.7	2886.2	2859.7	2862.6	2870.0	2896.4	2902.3
22.5°	3143.4	3067.0	2950.8	2875.8	2805.2	2734.7	2681.8	2674.4	2677.4	2699.4	2706.7
25°	3146.4	3065.5	2940.6	2811.2	2656.8	2543.6	2473.0	2461.2	2459.8	2476.0	2486.2
27.5°	3203.7	3122.9	2978.7	2745.0	2495.1	2327.4	2252.4	2243.6	2231.9	2236.3	2248.0
30°	3331.6	3256.7	3071.4	2677.4	2320.1	2115.7	2037.8	2028.9	2012.8	2005.4	2014.3
32.5°	3540.4	3478.6	3206.6	2612.6	2145.1	1934.9	1855.4	1836.4	1826.1	1817.3	1824.6
35°	3887.4	3860.9	3387.5	2542.1	1990.8	1795.2	1723.2	1693.7	1679.1	1695.2	1707.0
37.5°	4431.4	4446.1	3624.2	2431.9	1871.7	1702.6	1642.2	1608.5	1586.4	1599.7	1612.9
40°	5201.8	5212.1	3885.9	2276.0	1768.7	1648.2	1583.4	1552.6	1521.7	1498.2	1496.7
42.5°	6213.3	6109.0	4143.2	2106.9	1649.6	1614.3	1542.3	1504.0	1457.0	1392.3	1379.1
45°	7413.1	7047.0	4338.7	1912.8	1515.8	1573.2	1496.7	1443.8	1370.2	1299.8	1292.4
47.5°	8795.1	8054.1	4434.3	1711.4	1390.9	1512.9	1440.8	1357.0	1264.5	1229.2	1224.8
50°	10483.0	9249.4	4479.9	1515.8	1282.1	1433.5	1360.0	1261.5	1183.6	1176.2	1171.8
52.5°	12404.6	10687.4	4494.6	1355.6	1192.4	1330.6	1293.8	1198.3	1136.5	1142.4	1142.4
55°	14415.9	12172.3	4294.7	1239.4	1110.0	1224.8	1249.7	1173.2	1121.8	1145.3	1154.2
57.5°	16262.6	13488.2	3665.3	1149.8	1032.2	1143.9	1233.6	1196.8	1161.5	1257.1	1262.9
60°	17680.0	14266.0	2737.6	1068.9	974.8	1115.9	1276.2	1286.5	1295.3	1523.2	1554.1
62.5°	17976.9	14007.2	1881.9	1005.7	948.3	1139.5	1354.1	1355.6	1345.3	1504.0	1523.2
65°	16613.9	12370.9	1368.8	970.4	926.3	1182.1	1420.3	1389.4	1321.8	1442.4	1407.1
67.5°	13194.1	9320.0	1139.5	943.9	894.0	1179.2	1490.8	1420.3	1308.6	1412.9	1355.6
70°	8564.2	5635.5	1014.5	921.9	855.7	1123.3	1532.0	1417.3	1270.3	1314.4	1246.8
72.5°	4178.4	2520.0	930.7	889.6	816.0	1045.4	1530.5	1390.9	1230.6	1227.6	1190.9
75°	1635.0	1154.2	854.3	841.0	748.4	957.2	1489.4	1352.6	1183.6	1136.5	1123.3
77.5°	957.2	823.4	757.2	769.0	667.5	868.9	1429.1	1286.5	1118.9	1063.1	1048.3
80°	696.9	616.0	645.5	664.5	570.5	780.7	1348.2	1205.6	1046.8	1074.8	1054.2
82.5°	446.9	397.0	523.4	542.6	474.9	691.0	1260.0	1120.3	945.4	858.7	838.0
85°	227.9	251.4	389.6	413.2	366.1	567.5	1152.7	1007.1	830.7	714.5	726.3
87.5°	127.9	172.1	248.5	277.8	258.8	436.7	935.1	830.7	677.8	551.4	485.2
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)