

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: P191532

Luminaire Tested: **GLEON-AF-04-LED-E1-T4FT**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191532  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24295)  
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-T4FT  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 24710.4 lumens  
Efficiency: N/A  
Efficacy: 109.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B3 - U0 - G4

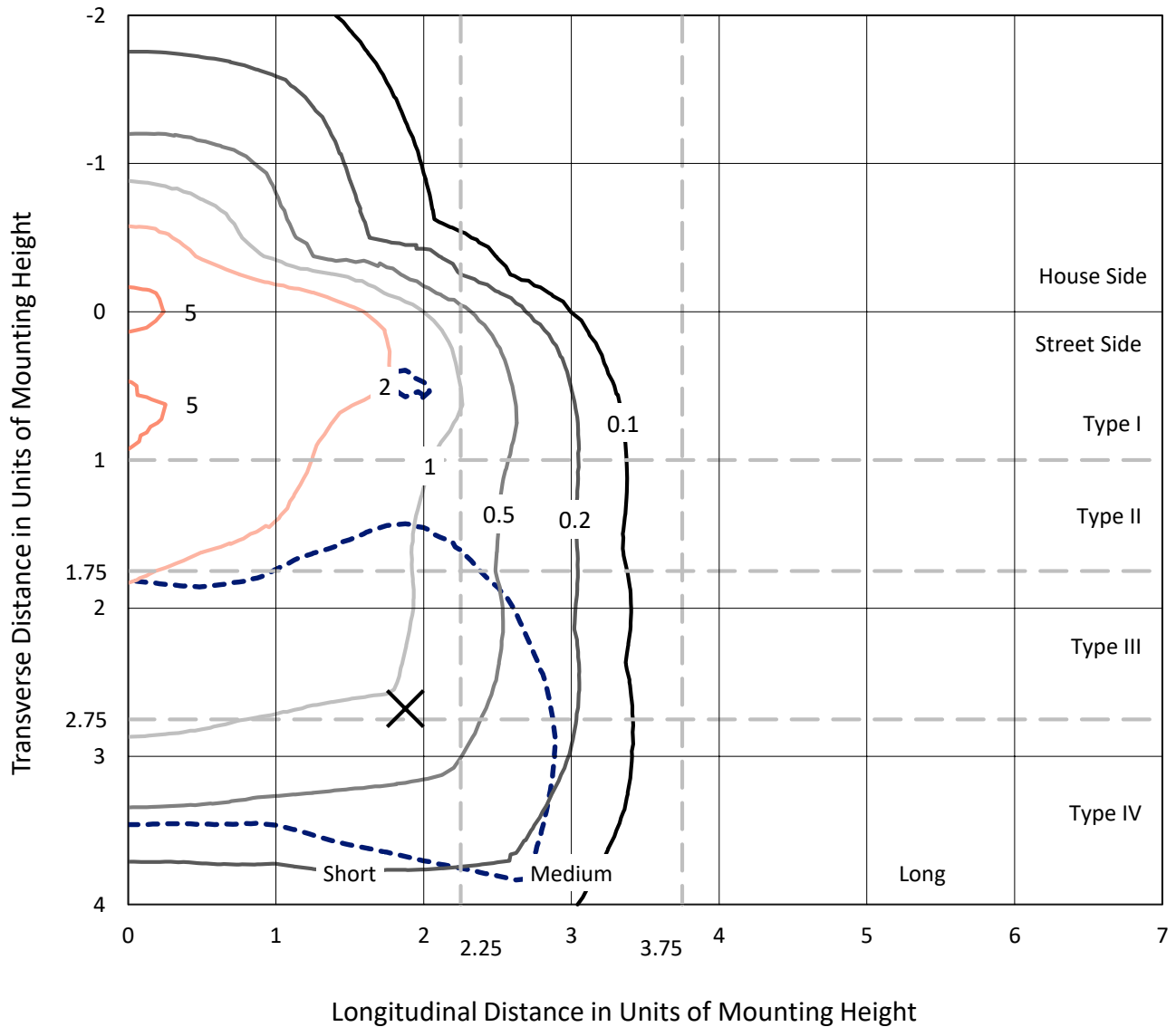
Input Watts (W): 225  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

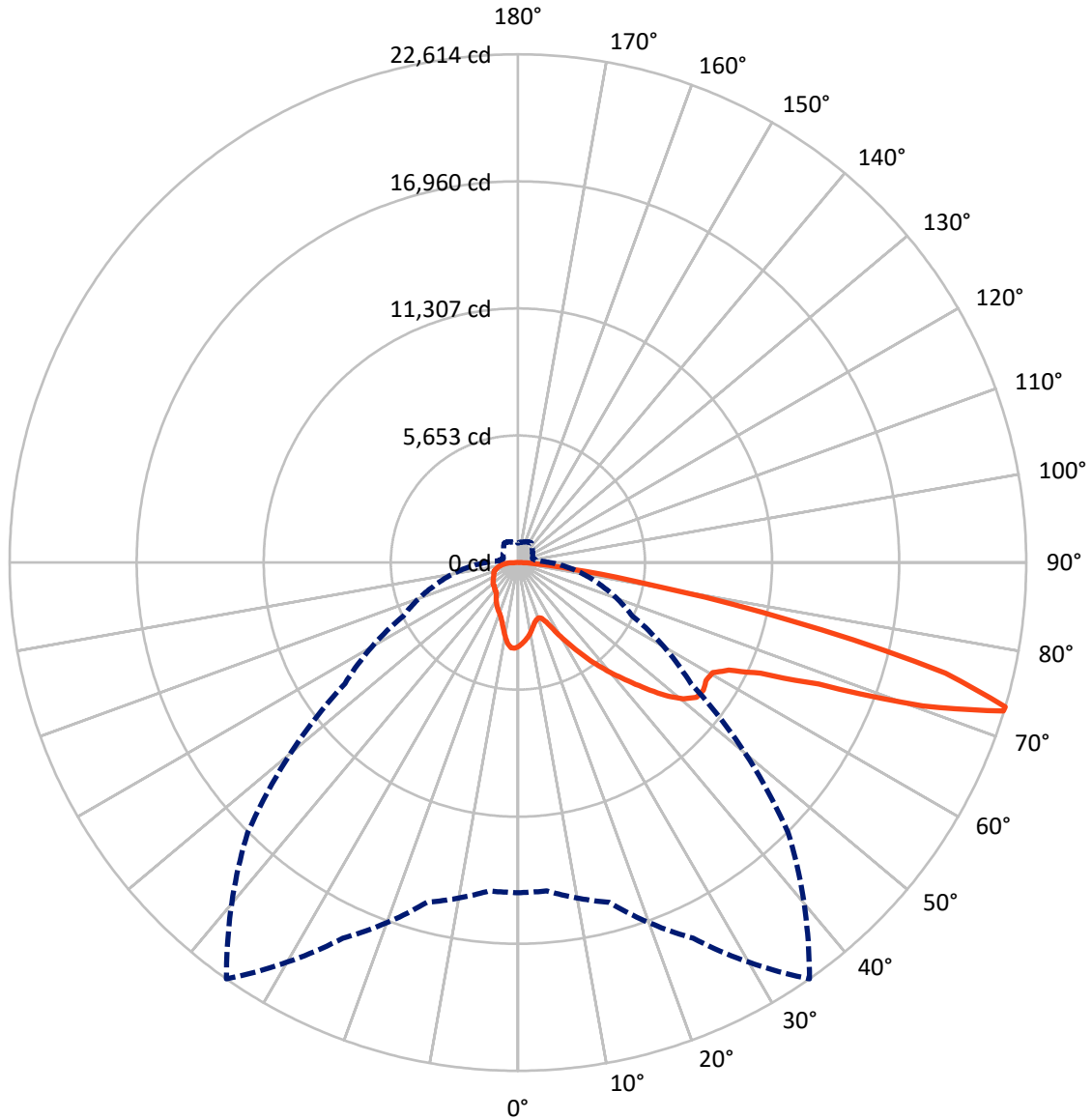
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 fc  
 Type IV - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral      - - - Horizontal Cone Through 73-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4713.0	0.0	4713.0
	% Fixture	19.1	0.0	19.1
<b>Street Side</b>	Lumens	19997.4	0.0	19997.4
	% Fixture	80.9	0.0	80.9
<b>Total</b>	Lumens	24710.4	0.0	24710.4
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	337.6	1.4
10°-20°	842.7	3.4
20°-30°	1362.3	5.5
30°-40°	2284.4	9.2
40°-50°	3521.3	14.3
50°-60°	4724.2	19.1
60°-70°	6293.6	25.5
70°-80°	4800.1	19.4
80°-90°	544.1	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°	24710.4	100.0
0°-180°	24710.4	100.0



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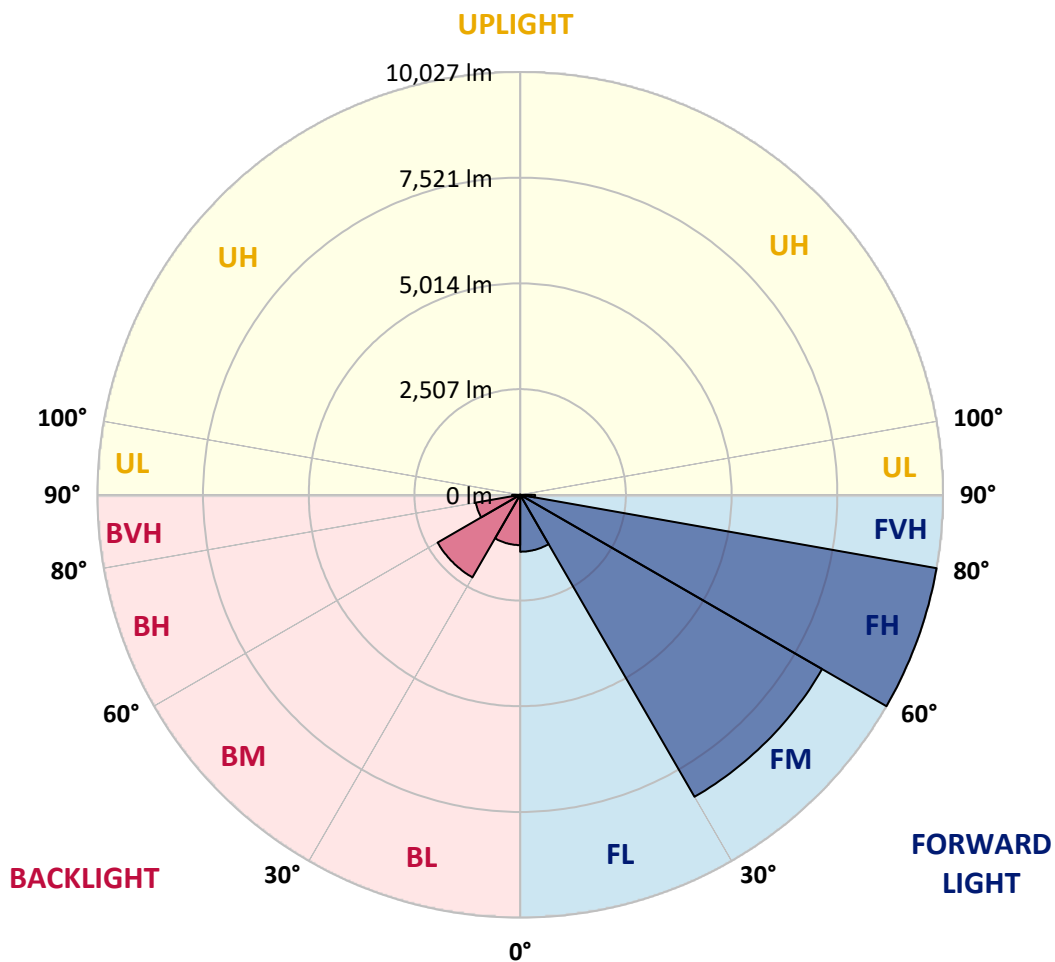
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1350.0	5.5			
FM	(30°-60°)	8268.3	33.5			
FH	(60°-80°)	10027.5	40.6			G4/12000
FVH	(80°-90°)	351.7	1.4			G3/500
BL	(0°-30°)	1192.6	4.8	B3/2500		
BM	(30°-60°)	2261.7	9.2	B2/2500		
BH	(60°-80°)	1066.3	4.3	B3/2500		G3/2500
BVH	(80°-90°)	192.4	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 IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3729.6	3729.6	3729.6	3729.6	3729.6	3729.6	3729.6	3729.6	3729.6	3729.6	3729.6
2.5°	3582.5	3589.5	3581.2	3591.9	3609.7	3628.7	3641.8	3660.7	3682.1	3711.8	3718.9
5°	3413.9	3424.6	3424.6	3443.6	3478.0	3508.8	3537.4	3568.2	3613.3	3664.3	3684.5
7.5°	3228.8	3234.8	3245.4	3273.9	3323.8	3367.7	3408.0	3457.9	3519.6	3587.2	3622.8
10°	3005.7	3014.0	3030.6	3071.0	3138.6	3199.2	3257.3	3326.1	3404.4	3488.7	3533.8
12.5°	2847.9	2845.5	2852.6	2882.3	2941.6	3015.2	3099.4	3187.3	3283.4	3381.9	3436.5
15°	2794.5	2781.4	2754.2	2747.0	2779.1	2852.6	2950.0	3057.9	3173.0	3291.7	3359.4
17.5°	2827.7	2805.1	2730.5	2675.8	2671.1	2726.9	2830.1	2951.1	3084.0	3228.8	3313.0
20°	3036.5	2983.1	2799.2	2672.3	2628.4	2655.7	2745.8	2874.0	3030.6	3222.9	3330.8
22.5°	3536.1	3457.9	3067.4	2831.3	2683.0	2649.7	2717.4	2853.8	3036.5	3296.5	3434.0
25°	4263.6	4152.1	3527.9	3227.6	2921.4	2744.7	2760.1	2900.1	3120.8	3467.3	3633.4
27.5°	4837.8	4765.5	4129.4	3786.6	3355.8	3000.9	2898.9	3016.4	3292.9	3747.4	3917.1
30°	5179.6	5135.7	4772.6	4420.2	3909.9	3409.2	3164.7	3234.8	3562.2	4135.4	4275.4
32.5°	5576.0	5549.8	5371.8	5048.0	4508.0	3945.5	3586.0	3561.1	3923.0	4601.7	4665.8
35°	5986.5	5978.2	5873.8	5641.3	5149.9	4652.8	4144.9	3976.4	4315.7	5085.9	5045.5
37.5°	6368.6	6354.4	6293.9	6158.6	5821.6	5412.2	4714.5	4402.4	4739.4	5548.7	5369.5
40°	7072.3	6960.8	6753.1	6651.0	6500.3	6051.8	5166.6	4799.9	5178.5	5990.1	5649.6
42.5°	7930.2	7748.6	7361.9	7221.8	7200.4	6556.1	5475.1	5185.5	5621.0	6427.9	5924.8
45°	8605.4	8434.5	8101.1	7924.3	8002.6	7012.9	5784.8	5597.3	6076.7	6887.2	6208.4
47.5°	9325.7	9057.5	8616.1	8669.5	8840.3	7444.9	6100.5	6039.9	6576.2	7400.9	6560.9
50°	9351.8	9146.5	8953.1	9272.3	9538.1	7842.5	6495.6	6503.9	7187.4	8047.7	7029.6
52.5°	8809.6	8765.6	9073.0	9574.9	9958.1	8156.9	6945.3	6983.3	7969.4	8790.5	7544.6
55°	8619.7	8569.8	8924.6	9469.3	10015.1	8416.7	7433.1	7501.8	8915.1	9573.7	8046.5
57.5°	9082.5	8972.1	8995.8	9419.4	9876.3	8701.5	7964.6	8103.5	9942.8	10258.4	8369.3
60°	10375.9	10139.7	9691.1	9680.5	9951.1	9128.7	8579.3	8749.0	11010.7	10585.9	8243.4
62.5°	12190.2	11954.1	11114.0	10566.9	10526.6	9833.5	9334.0	9379.1	11627.8	10142.0	7475.7
65°	14154.1	13942.8	13004.3	12231.7	11859.2	11001.2	10210.9	9660.3	11426.1	8921.1	6132.5
67.5°	16538.0	16311.4	15504.5	14791.3	14432.9	12885.6	10826.8	9391.0	10145.6	6911.0	4408.3
70°	18205.3	17973.9	17655.8	18233.7	19110.7	15604.1	10906.3	8295.7	7577.8	4593.5	2653.3
72.5°	16030.2	15922.1	16502.4	18936.1	22588.6	17253.5	9858.5	6039.9	4401.2	2438.5	1535.4
73°	14686.9	14663.2	15652.8	18443.7	22613.6	16999.6	9399.3	5614.0	3774.7	2157.3	1403.8
75°	6632.1	6823.1	8992.2	14087.7	19647.0	14008.1	6615.4	3220.5	2132.3	1490.4	1059.7
77.5°	1593.7	1660.0	2813.5	6690.2	12407.4	8347.9	2997.5	1592.4	1363.4	1052.5	773.7
80°	678.7	701.3	1083.4	2471.8	5841.8	3361.7	1381.2	1066.7	943.4	734.5	542.3
82.5°	377.4	401.1	614.7	1121.4	2357.8	1146.3	842.5	742.9	620.6	442.6	352.4
85°	213.6	226.7	359.6	626.6	999.1	460.4	504.3	493.7	350.1	227.8	173.3
87.5°	100.9	109.1	173.3	290.7	391.6	180.3	256.4	282.4	219.5	138.8	90.2
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°	3729.6	3729.6	3729.6	3729.6	3729.6	3729.6	3729.6	3729.6	3729.6	3729.6
2.5°	3727.2	3748.6	3773.5	3786.6	3798.4	3812.6	3826.9	3826.9	3829.2	3830.4
5°	3701.1	3745.0	3784.2	3800.8	3804.4	3804.4	3800.8	3781.7	3765.2	3772.3
7.5°	3646.5	3710.5	3743.8	3737.9	3692.8	3640.6	3596.7	3543.3	3516.0	3511.3
10°	3568.2	3641.8	3647.7	3588.4	3476.8	3365.3	3272.7	3182.5	3139.8	3129.1
12.5°	3481.6	3549.2	3511.3	3389.0	3209.8	3047.3	2929.7	2838.4	2798.1	2787.3
15°	3411.5	3457.9	3361.7	3169.5	2944.1	2772.0	2674.6	2607.0	2578.6	2570.3
17.5°	3374.7	3384.2	3208.6	2948.8	2709.1	2565.5	2505.0	2472.9	2462.2	2456.3
20°	3392.5	3326.1	3062.7	2743.5	2516.9	2416.0	2401.7	2393.4	2391.0	2387.5
22.5°	3481.6	3308.3	2928.6	2548.9	2348.3	2304.4	2316.3	2315.1	2312.7	2310.3
25°	3640.6	3323.8	2798.1	2363.7	2207.1	2197.6	2219.0	2219.0	2209.5	2209.5
27.5°	3850.6	3355.8	2652.1	2188.1	2078.9	2080.2	2096.7	2092.0	2081.3	2074.2
30°	4106.9	3375.9	2481.3	2030.4	1959.2	1954.3	1959.2	1938.9	1906.9	1904.5
32.5°	4369.1	3351.0	2283.0	1890.3	1832.1	1821.5	1817.9	1789.4	1752.6	1742.0
35°	4606.4	3259.6	2081.3	1778.7	1711.1	1687.4	1704.0	1694.5	1661.3	1653.0
37.5°	4779.7	3089.9	1899.8	1680.3	1624.4	1618.5	1629.3	1632.8	1593.7	1585.4
40°	4896.0	2859.8	1744.3	1597.2	1607.9	1585.4	1549.8	1524.8	1512.9	1509.4
42.5°	4989.7	2620.1	1613.8	1558.1	1611.5	1546.2	1469.1	1428.7	1450.0	1459.5
45°	5097.8	2386.3	1504.7	1509.4	1593.7	1501.1	1413.3	1374.1	1382.4	1384.8
47.5°	5246.1	2101.6	1387.1	1431.1	1534.3	1470.2	1378.8	1323.1	1283.9	1266.1
50°	5451.4	1764.5	1265.0	1343.2	1476.1	1447.7	1325.4	1266.1	1193.8	1177.1
52.5°	5593.8	1450.0	1164.1	1269.7	1423.9	1402.6	1282.8	1205.6	1129.6	1115.4
55°	5516.7	1204.4	1076.2	1187.9	1355.1	1346.8	1247.2	1143.9	1084.5	1072.7
57.5°	5131.0	1048.9	1008.6	1110.7	1270.9	1299.4	1199.7	1091.7	1048.9	1040.6
60°	4395.3	951.7	965.9	1058.4	1202.1	1251.9	1152.3	1063.3	1034.7	1028.8
62.5°	3410.3	886.4	933.9	1020.5	1148.7	1218.6	1126.1	1059.7	1048.9	1041.9
65°	2443.2	834.2	899.5	982.5	1100.0	1187.9	1116.7	1054.9	1057.3	1051.4
67.5°	1660.0	787.9	857.9	939.8	1052.5	1160.5	1103.6	1038.3	1068.0	1060.8
70°	1161.7	742.9	809.3	885.3	993.2	1122.6	1079.8	1013.3	1011.0	982.5
72.5°	906.5	683.5	742.9	809.3	917.3	1069.2	1032.4	957.6	918.4	888.7
73°	865.0	669.2	726.2	792.7	900.6	1056.1	1019.3	942.1	898.3	870.9
75°	715.6	607.5	659.8	719.1	829.4	994.4	955.2	872.2	816.4	799.7
77.5°	562.4	519.8	569.6	623.0	731.0	904.2	860.3	780.8	749.9	735.7
80°	416.5	430.8	474.6	522.1	633.6	808.1	769.0	689.5	827.1	792.7
82.5°	293.1	326.3	366.6	409.4	531.6	714.3	666.9	585.0	605.2	503.1
85°	173.3	213.6	251.5	288.4	383.3	592.1	550.6	466.4	382.1	364.3
87.5°	100.9	118.7	129.3	167.4	263.4	446.2	388.0	345.3	198.1	134.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)