

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: P192324

Luminaire Tested: **GLEON-AF-06-LED-E1-T4FT-7050-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P192324  
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-06-LED-E1-T4FT-7050-800  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 5000K, 800mA 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: 28936 lumens  
Efficiency: N/A  
Efficacy: 116.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B3 - U0 - G4

Input Watts (W): 249  
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

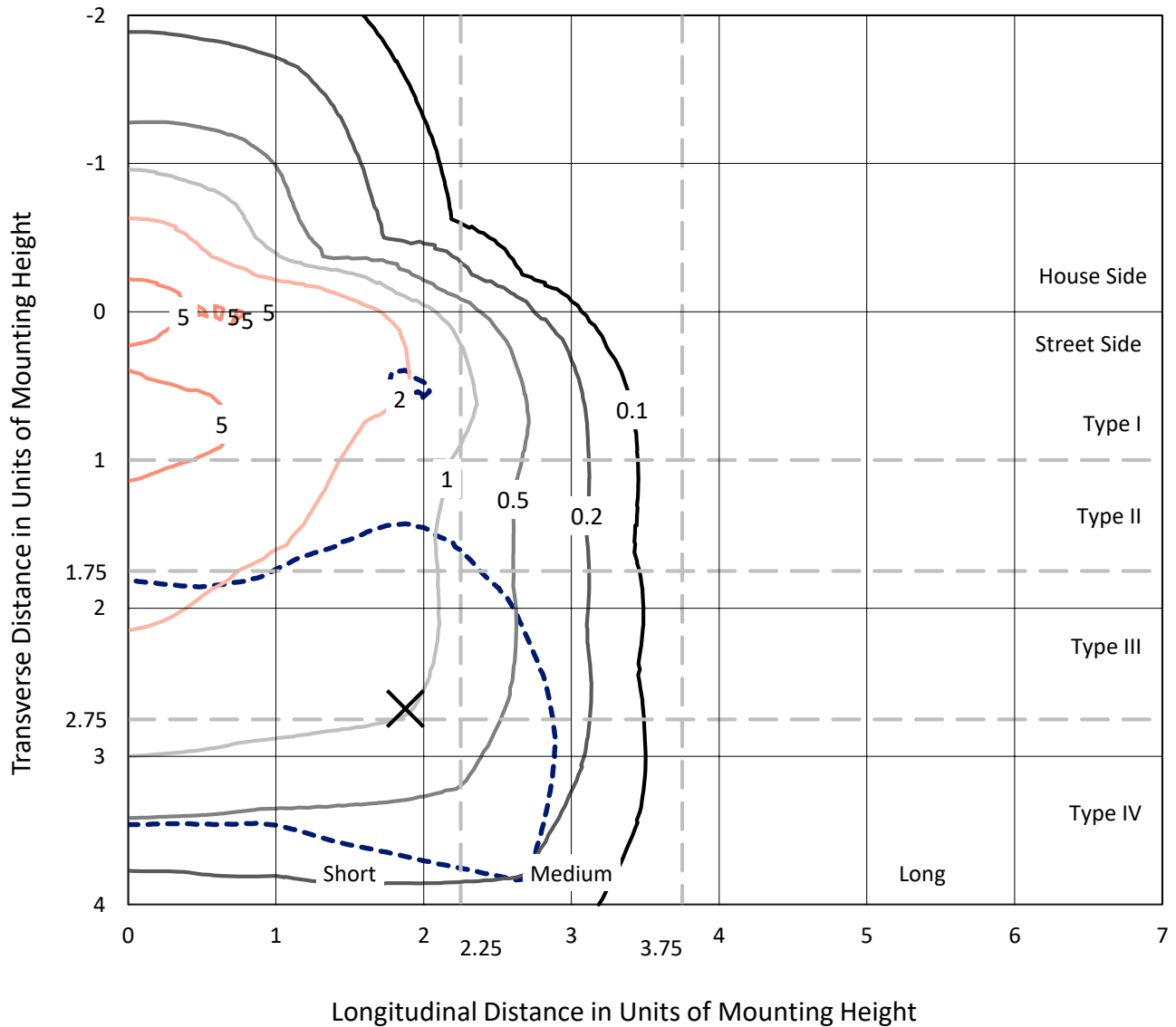


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

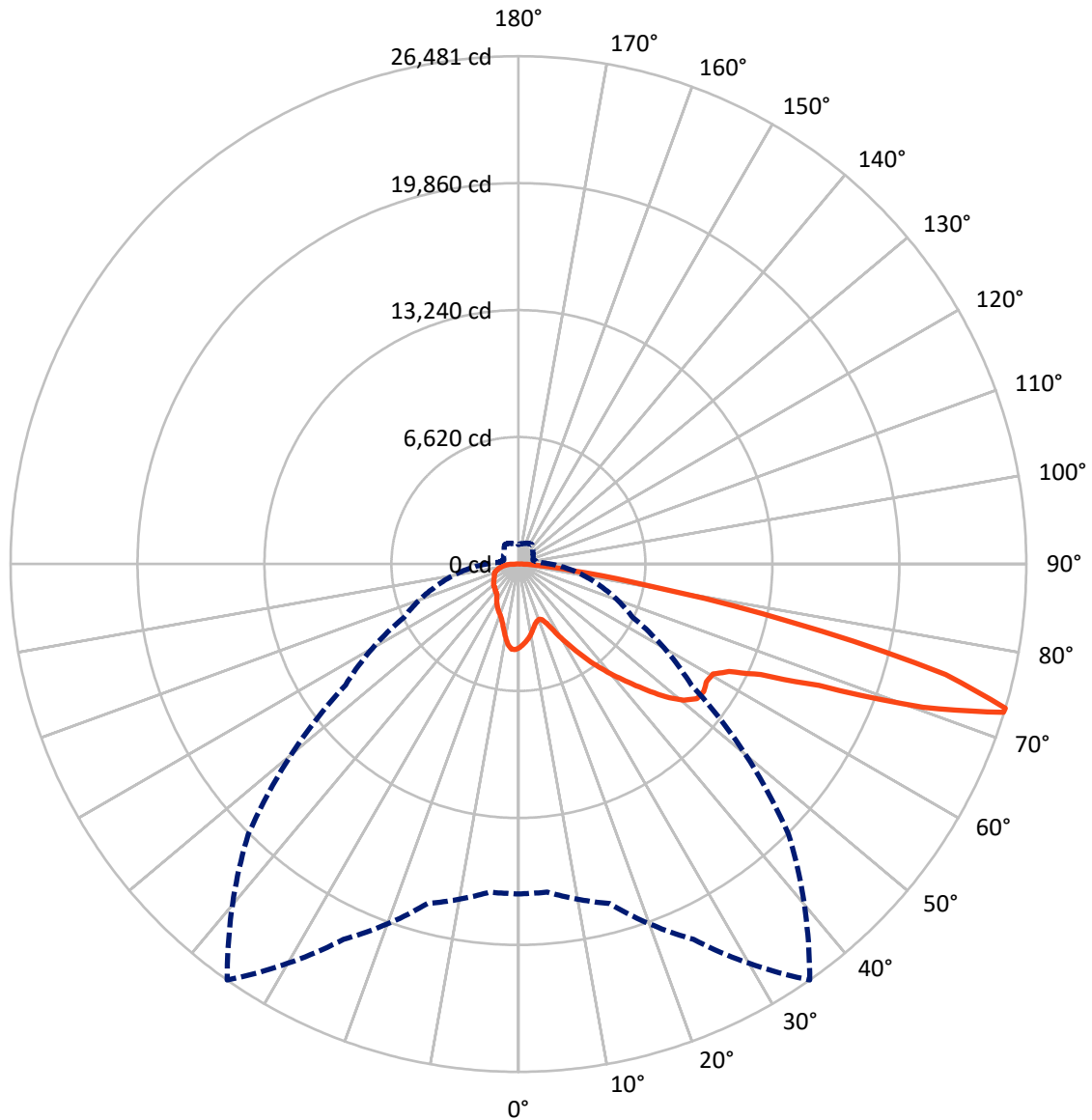


Based on 25 foot mounting height. Maximum calculated value = 7 fc  
 Type IV - Short - Non-Cutoff

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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	5518.9	0.0	5518.9
	% Fixture	19.1	0.0	19.1
<b>Street Side</b>	Lumens	23417.1	0.0	23417.1
	% Fixture	80.9	0.0	80.9
<b>Total</b>	Lumens	28936.0	0.0	28936.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	395.4	1.4
10°-20°	986.8	3.4
20°-30°	1595.3	5.5
30°-40°	2675.1	9.2
40°-50°	4123.5	14.3
50°-60°	5532.1	19.1
60°-70°	7369.9	25.5
70°-80°	5621.0	19.4
80°-90°	637.1	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°	28936.0	100.0
0°-180°	28936.0	100.0

**Coefficient of Utilization**



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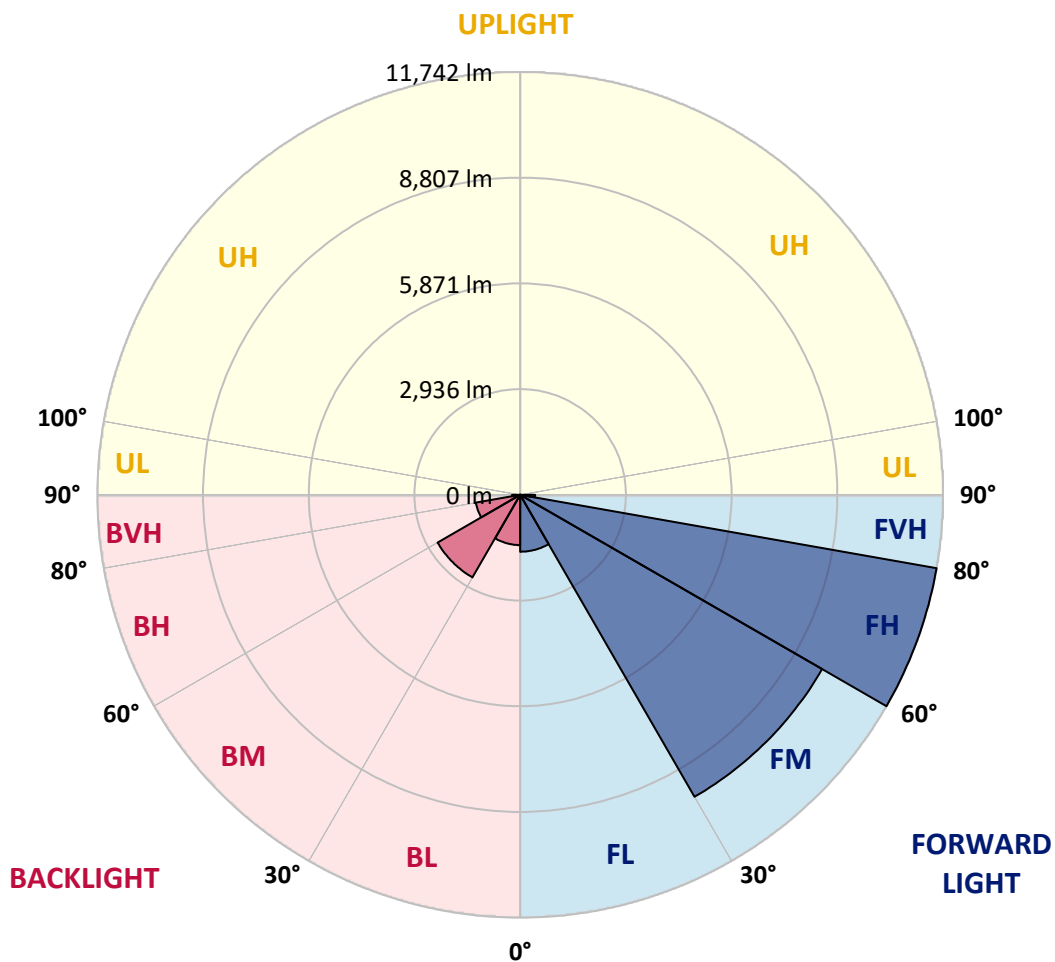
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1580.9	5.5			
FM	(30°-60°)	9682.2	33.5			
FH	(60°-80°)	11742.2	40.6			G4/12000
FVH	(80°-90°)	411.8	1.4			G3/500
BL	(0°-30°)	1396.5	4.8	B3/2500		
BM	(30°-60°)	2648.5	9.2	B3/5000		
BH	(60°-80°)	1248.6	4.3	B3/2500		G3/2500
BVH	(80°-90°)	225.3	0.8			G3/500
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°	4367.3	4367.3	4367.3	4367.3	4367.3	4367.3	4367.3	4367.3	4367.3	4367.3	4367.3
2.5°	4195.0	4203.4	4193.6	4206.2	4227.0	4249.2	4264.5	4286.7	4311.8	4346.5	4354.8
5°	3997.7	4010.2	4010.2	4032.5	4072.8	4108.9	4142.2	4178.4	4231.2	4290.9	4314.5
7.5°	3781.0	3787.9	3800.4	3833.8	3892.1	3943.5	3990.8	4049.1	4121.4	4200.6	4242.3
10°	3519.7	3529.4	3548.9	3596.1	3675.3	3746.2	3814.3	3894.9	3986.6	4085.3	4138.1
12.5°	3334.9	3332.1	3340.5	3375.2	3444.7	3530.8	3629.5	3732.3	3844.9	3960.2	4024.1
15°	3272.4	3257.1	3225.1	3216.8	3254.3	3340.5	3454.4	3580.9	3715.6	3854.6	3933.8
17.5°	3311.3	3284.9	3197.3	3133.4	3127.9	3193.2	3314.1	3455.8	3611.4	3781.0	3879.6
20°	3555.8	3493.3	3277.9	3129.3	3077.8	3109.8	3215.4	3365.5	3548.9	3774.0	3900.5
22.5°	4140.8	4049.1	3592.0	3315.5	3141.8	3102.9	3182.1	3341.9	3555.8	3860.2	4021.3
25°	4992.6	4862.0	4131.1	3779.6	3421.1	3214.0	3232.1	3396.0	3654.5	4060.3	4254.8
27.5°	5665.2	5580.4	4835.6	4434.0	3929.6	3514.2	3394.7	3532.2	3856.0	4388.2	4586.9
30°	6065.4	6014.0	5588.8	5176.1	4578.6	3992.2	3705.9	3787.9	4171.4	4842.6	5006.5
32.5°	6529.5	6498.9	6290.5	5911.1	5278.9	4620.2	4199.2	4170.0	4593.8	5388.7	5463.7
35°	7010.3	7000.5	6878.2	6605.9	6030.6	5448.4	4853.7	4656.4	5053.8	5955.6	5908.3
37.5°	7457.7	7441.0	7370.1	7211.7	6817.1	6337.7	5520.7	5155.2	5549.8	6497.5	6287.7
40°	8281.7	8151.1	7907.9	7788.4	7611.9	7086.7	6050.1	5620.7	6064.0	7014.4	6615.6
42.5°	9286.3	9073.7	8620.7	8456.8	8431.8	7677.2	6411.4	6072.3	6582.3	7527.2	6938.0
45°	10077.0	9876.9	9486.4	9279.4	9371.1	8212.2	6774.0	6554.5	7115.9	8064.9	7270.1
47.5°	10920.4	10606.4	10089.5	10152.0	10352.1	8718.0	7143.7	7072.8	7700.9	8666.6	7682.8
50°	10951.0	10710.6	10484.1	10857.9	11169.2	9183.5	7606.4	7616.1	8416.5	9423.9	8231.7
52.5°	10316.0	10264.6	10624.5	11212.2	11661.1	9551.7	8133.0	8177.5	9332.2	10293.8	8834.7
55°	10093.7	10035.3	10450.8	11088.6	11727.8	9856.0	8704.1	8784.7	10439.7	11210.9	9422.5
57.5°	10635.6	10506.4	10534.1	11030.2	11565.2	10189.5	9326.6	9489.2	11643.0	12012.6	9800.5
60°	12150.2	11873.7	11348.4	11335.9	11652.7	10689.8	10046.4	10245.1	12893.6	12396.1	9653.2
62.5°	14274.8	13998.3	13014.5	12373.9	12326.7	11515.2	10930.2	10983.0	13616.2	11876.4	8754.1
65°	16574.5	16327.2	15228.0	14323.4	13887.1	12882.5	11957.0	11312.3	13379.9	10446.6	7181.2
67.5°	19366.1	19100.7	18155.8	17320.7	16901.0	15089.1	12678.2	10996.9	11880.6	8092.7	5162.2
70°	21318.4	21047.4	20675.0	21351.8	22378.6	18272.5	12771.3	9714.3	8873.6	5378.9	3107.0
72.5°	18771.4	18644.9	19324.4	22174.4	26451.4	20204.0	11544.3	7072.8	5153.8	2855.5	1798.1
73°	17198.4	17170.6	18329.5	21597.7	26480.6	19906.6	11006.6	6573.9	4420.1	2526.2	1643.8
75°	7766.2	7989.9	10530.0	16496.7	23006.7	16403.6	7746.7	3771.2	2497.0	1745.3	1240.9
77.5°	1866.2	1944.0	3294.6	7834.3	14529.1	9775.5	3510.0	1864.8	1596.6	1232.5	906.0
80°	794.8	821.2	1268.7	2894.4	6840.7	3936.6	1617.4	1249.2	1104.7	860.1	635.0
82.5°	441.9	469.7	719.8	1313.1	2761.0	1342.3	986.6	869.9	726.7	518.3	412.7
85°	250.1	265.4	421.0	733.7	1170.0	539.1	590.6	578.1	409.9	266.8	202.9
87.5°	118.1	127.8	202.9	340.4	458.5	211.2	300.1	330.7	257.1	162.6	105.6
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°	4367.3	4367.3	4367.3	4367.3	4367.3	4367.3	4367.3	4367.3	4367.3	4367.3
2.5°	4364.6	4389.6	4418.8	4434.0	4447.9	4464.6	4481.3	4481.3	4484.1	4485.5
5°	4334.0	4385.4	4431.3	4450.7	4454.9	4454.9	4450.7	4428.5	4409.0	4417.4
7.5°	4270.1	4345.1	4384.0	4377.1	4324.3	4263.1	4211.7	4149.2	4117.2	4111.7
10°	4178.4	4264.5	4271.5	4202.0	4071.4	3940.8	3832.4	3726.8	3676.7	3664.2
12.5°	4076.9	4156.1	4111.7	3968.5	3758.7	3568.4	3430.8	3323.8	3276.5	3264.0
15°	3994.9	4049.1	3936.6	3711.5	3447.5	3246.0	3132.0	3052.8	3019.5	3009.8
17.5°	3951.9	3963.0	3757.3	3453.0	3172.3	3004.2	2933.3	2895.8	2883.3	2876.4
20°	3972.7	3894.9	3586.4	3212.6	2947.2	2829.1	2812.4	2802.7	2799.9	2795.8
22.5°	4076.9	3874.1	3429.4	2984.7	2749.9	2698.5	2712.4	2711.0	2708.2	2705.4
25°	4263.1	3892.1	3276.5	2768.0	2584.6	2573.4	2598.4	2598.4	2587.3	2587.3
27.5°	4509.1	3929.6	3105.6	2562.3	2434.5	2435.9	2455.3	2449.8	2437.3	2428.9
30°	4809.2	3953.3	2905.5	2377.5	2294.1	2288.6	2294.1	2270.5	2233.0	2230.2
32.5°	5116.3	3924.1	2673.5	2213.5	2145.5	2133.0	2128.8	2095.4	2052.4	2039.9
35°	5394.2	3817.1	2437.3	2082.9	2003.7	1975.9	1995.4	1984.3	1945.4	1935.6
37.5°	5597.1	3618.4	2224.7	1967.6	1902.3	1895.3	1907.8	1912.0	1866.2	1856.4
40°	5733.3	3348.8	2042.6	1870.3	1882.8	1856.4	1814.7	1785.6	1771.7	1767.5
42.5°	5843.0	3068.1	1889.8	1824.5	1887.0	1810.6	1720.3	1673.0	1698.0	1709.1
45°	5969.5	2794.4	1761.9	1767.5	1866.2	1757.8	1654.9	1609.1	1618.8	1621.6
47.5°	6143.2	2460.9	1624.4	1675.8	1796.7	1721.6	1614.7	1549.3	1503.5	1482.6
50°	6383.6	2066.3	1481.3	1573.0	1728.6	1695.2	1552.1	1482.6	1397.9	1378.4
52.5°	6550.3	1698.0	1363.1	1486.8	1667.5	1642.4	1502.1	1411.8	1322.8	1306.2
55°	6460.0	1410.4	1260.3	1390.9	1586.9	1577.1	1460.4	1339.5	1270.0	1256.1
57.5°	6008.4	1228.4	1181.1	1300.6	1488.2	1521.6	1404.8	1278.4	1228.4	1218.6
60°	5146.9	1114.4	1131.1	1239.5	1407.6	1466.0	1349.2	1245.0	1211.7	1204.7
62.5°	3993.6	1038.0	1093.6	1195.0	1345.1	1427.1	1318.7	1240.9	1228.4	1220.0
65°	2861.1	976.9	1053.3	1150.5	1288.1	1390.9	1307.6	1235.3	1238.1	1231.1
67.5°	1944.0	922.7	1004.6	1100.5	1232.5	1359.0	1292.3	1215.9	1250.6	1242.3
70°	1360.4	869.9	947.7	1036.6	1163.0	1314.5	1264.5	1186.7	1183.9	1150.5
72.5°	1061.6	800.4	869.9	947.7	1074.1	1252.0	1208.9	1121.4	1075.5	1040.8
73°	1013.0	783.7	850.4	928.2	1054.7	1236.7	1193.6	1103.3	1051.9	1019.9
75°	837.9	711.4	772.6	842.1	971.3	1164.4	1118.6	1021.3	956.0	936.6
77.5°	658.6	608.6	667.0	729.5	856.0	1058.8	1007.4	914.3	878.2	861.5
80°	487.7	504.4	555.8	611.4	742.0	946.3	900.4	807.3	968.5	928.2
82.5°	343.2	382.1	429.4	479.4	622.5	836.5	780.9	685.0	708.7	589.2
85°	202.9	250.1	294.6	337.7	448.8	693.4	644.7	546.1	447.4	426.6
87.5°	118.1	139.0	151.5	195.9	308.5	522.5	454.4	404.4	232.1	157.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)