

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: P300326

Luminaire Tested: **GLNA-AF-06-LED-E1-T4FT-7027**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P300326  
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: GLNA-AF-06-LED-E1-T4FT-7027  
Description: GALLEONAIRE AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 2700K CCT 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND Type IV Forward Throw OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 31012.8 lumens  
Efficiency: N/A  
Efficacy: 93.1 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 - G5

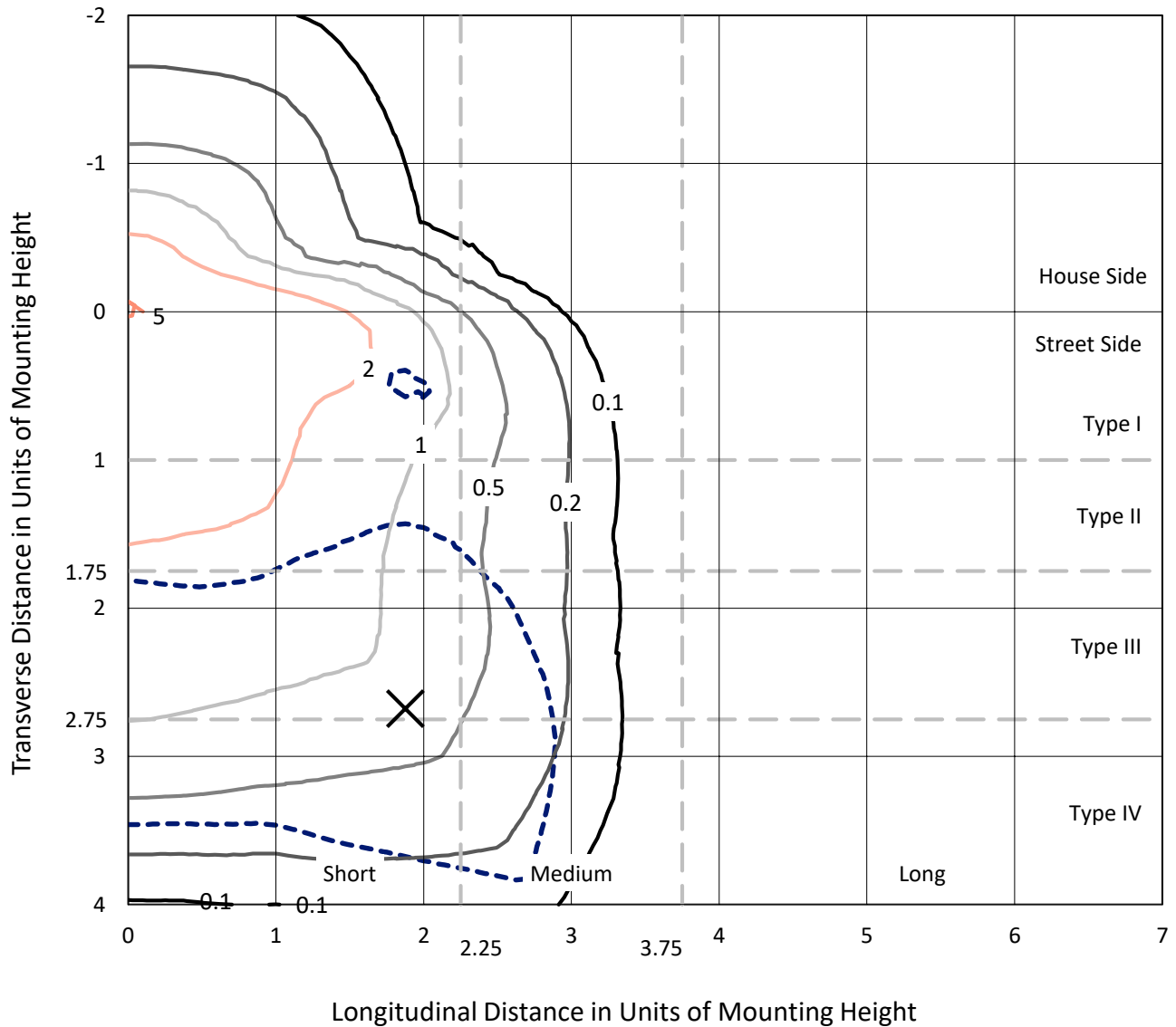
Input Watts (W): 333  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

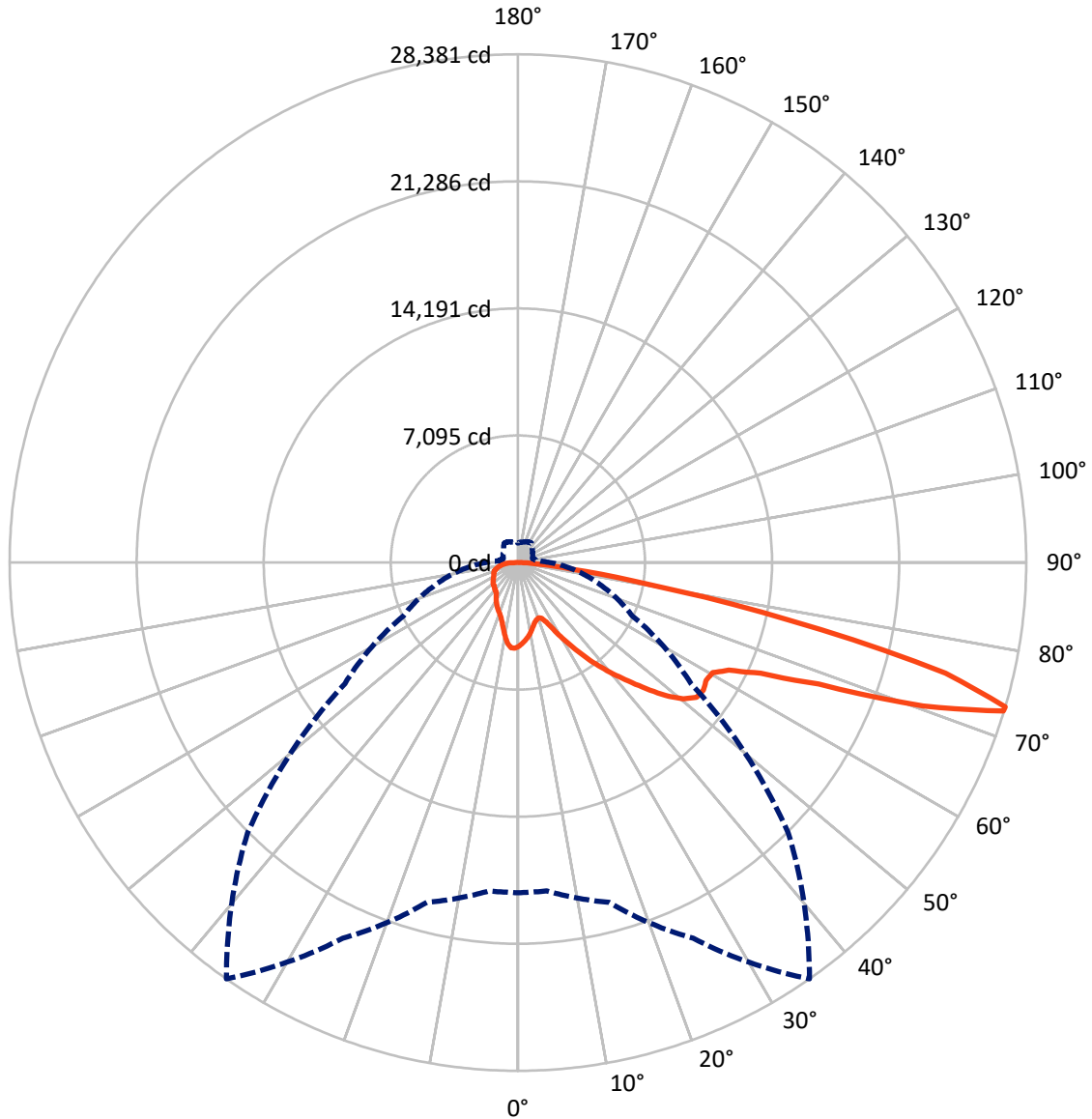
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.2 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	5915.0	0.0	5915.0
	% Fixture	19.1	0.0	19.1
<b>Street Side</b>	Lumens	25097.8	0.0	25097.8
	% Fixture	80.9	0.0	80.9
<b>Total</b>	Lumens	31012.8	0.0	31012.8
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	423.7	1.4
10°-20°	1057.6	3.4
20°-30°	1709.8	5.5
30°-40°	2867.1	9.2
40°-50°	4419.4	14.3
50°-60°	5929.1	19.1
60°-70°	7898.8	25.5
70°-80°	6024.4	19.4
80°-90°	682.8	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°	31012.8	100.0
0°-180°	31012.8	100.0



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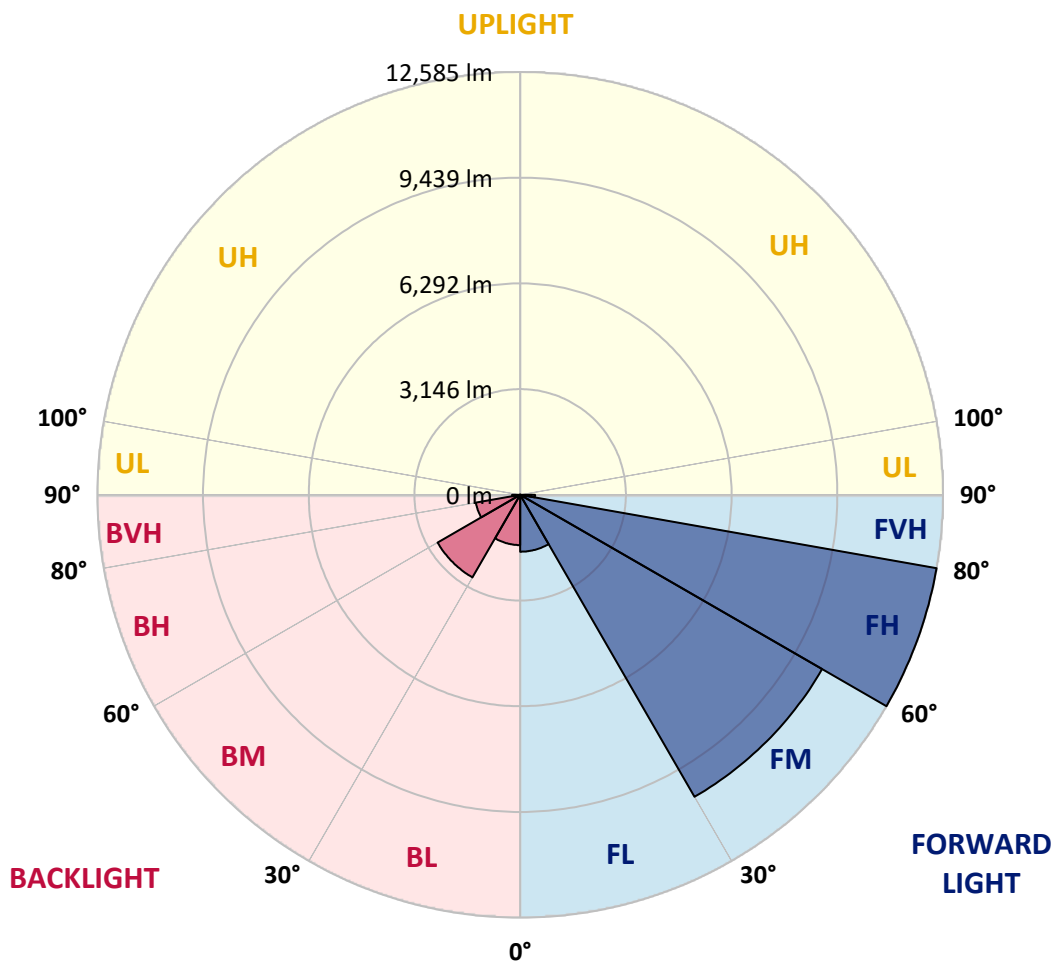
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1694.3	5.5			
FM	(30°-60°)	10377.1	33.5			
FH	(60°-80°)	12585.0	40.6			G5
FVH	(80°-90°)	441.4	1.4			G3/500
BL	(0°-30°)	1496.8	4.8	B3/2500		
BM	(30°-60°)	2838.5	9.2	B3/5000		
BH	(60°-80°)	1338.2	4.3	B3/2500		G3/2500
BVH	(80°-90°)	241.5	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-G5**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4680.8	4680.8	4680.8	4680.8	4680.8	4680.8	4680.8	4680.8	4680.8	4680.8	4680.8
2.5°	4496.1	4505.1	4494.6	4508.0	4530.4	4554.2	4570.6	4594.4	4621.2	4658.5	4667.4
5°	4284.6	4298.1	4298.1	4321.9	4365.1	4403.8	4439.5	4478.3	4534.8	4598.9	4624.2
7.5°	4052.3	4059.8	4073.2	4108.9	4171.5	4226.6	4277.2	4339.8	4417.2	4502.1	4546.8
10°	3772.3	3782.8	3803.6	3854.2	3939.1	4015.1	4088.1	4174.4	4272.7	4378.5	4435.1
12.5°	3574.3	3571.3	3580.2	3617.5	3691.9	3784.3	3890.0	4000.2	4120.8	4244.4	4312.9
15°	3507.2	3490.9	3456.6	3447.7	3487.9	3580.2	3702.3	3837.9	3982.3	4131.3	4216.1
17.5°	3548.9	3520.6	3426.8	3358.3	3352.4	3422.4	3551.9	3703.8	3870.6	4052.3	4158.1
20°	3811.1	3744.0	3513.2	3353.8	3298.7	3333.0	3446.2	3607.0	3803.6	4044.9	4180.4
22.5°	4438.0	4339.8	3849.8	3553.4	3367.3	3325.6	3410.4	3581.7	3811.1	4137.2	4310.0
25°	5351.0	5211.0	4427.6	4050.8	3666.6	3444.7	3464.1	3639.8	3916.8	4351.7	4560.2
27.5°	6071.8	5980.9	5182.7	4752.3	4211.7	3766.4	3638.3	3785.7	4132.7	4703.1	4916.1
30°	6500.7	6445.6	5989.9	5547.6	4907.2	4278.7	3971.9	4059.8	4470.8	5190.1	5365.9
32.5°	6998.1	6965.3	6742.0	6335.4	5657.8	4951.8	4500.6	4469.3	4923.5	5775.4	5855.8
35°	7513.4	7503.0	7371.9	7080.0	6463.5	5839.5	5202.0	4990.6	5416.5	6383.0	6332.4
37.5°	7992.9	7975.1	7899.1	7729.3	7306.4	6792.6	5916.9	5525.2	5948.2	6963.9	6739.0
40°	8876.1	8736.1	8475.5	8347.4	8158.3	7595.3	6484.3	6024.1	6499.2	7517.9	7090.4
42.5°	9952.8	9725.0	9239.5	9063.7	9036.9	8228.3	6871.5	6508.1	7054.7	8067.4	7436.0
45°	10800.2	10585.8	10167.3	9945.4	10043.7	8801.6	7260.2	7024.9	7626.6	8643.8	7791.9
47.5°	11704.2	11367.6	10813.6	10880.7	11095.1	9343.7	7656.4	7580.4	8253.6	9288.6	8234.2
50°	11737.0	11479.3	11236.6	11637.2	11970.8	9842.6	8152.3	8162.7	9020.5	10100.3	8822.5
52.5°	11056.4	11001.3	11387.0	12017.0	12498.0	10237.3	8716.7	8764.4	10002.0	11032.6	9468.8
55°	10818.1	10755.6	11200.8	11884.4	12569.5	10563.4	9328.8	9415.2	11188.9	12015.5	10098.8
57.5°	11398.9	11260.4	11290.2	11821.9	12395.2	10920.9	9996.0	10170.3	12478.6	12874.8	10503.9
60°	13022.2	12725.9	12162.9	12149.5	12489.1	11457.0	10767.5	10980.4	13819.0	13285.8	10346.0
62.5°	15299.3	15003.0	13948.6	13262.0	13211.4	12341.6	11714.6	11771.2	14593.4	12728.8	9382.4
65°	17764.1	17499.0	16321.0	15351.5	14883.8	13807.1	12815.2	12124.2	14340.2	11196.4	7696.6
67.5°	20756.0	20471.6	19458.9	18563.8	18114.1	16172.0	13588.2	11786.1	12733.3	8673.5	5532.7
70°	22848.5	22558.1	22158.9	22884.2	23984.8	19584.0	13687.9	10411.5	9510.5	5765.0	3330.0
72.5°	20118.6	19983.1	20711.4	23765.9	28349.9	21654.1	12372.9	7580.4	5523.7	3060.5	1927.1
73°	18432.8	18403.0	19645.0	23147.8	28381.1	21335.4	11796.6	7045.8	4737.4	2707.5	1761.8
75°	8323.6	8563.3	11285.7	17680.7	24657.9	17580.9	8302.7	4041.9	2676.2	1870.5	1329.9
77.5°	2000.1	2083.5	3531.1	8396.5	15571.9	10477.1	3761.9	1998.6	1711.2	1321.0	971.0
80°	851.9	880.2	1359.7	3102.2	7331.7	4219.1	1733.5	1338.9	1184.0	921.9	680.6
82.5°	473.6	503.4	771.4	1407.4	2959.2	1438.6	1057.4	932.3	778.9	555.5	442.3
85°	268.1	284.5	451.3	786.3	1254.0	577.8	632.9	619.5	439.3	285.9	217.4
87.5°	126.6	137.0	217.4	364.9	491.5	226.4	321.7	354.4	275.5	174.2	113.2
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°	4680.8	4680.8	4680.8	4680.8	4680.8	4680.8	4680.8	4680.8	4680.8	4680.8
2.5°	4677.8	4704.6	4735.9	4752.3	4767.2	4785.0	4802.9	4802.9	4805.9	4807.4
5°	4645.1	4700.2	4749.3	4770.2	4774.6	4774.6	4770.2	4746.3	4725.5	4734.4
7.5°	4576.5	4657.0	4698.7	4691.2	4634.6	4569.1	4514.0	4447.0	4412.7	4406.8
10°	4478.3	4570.6	4578.0	4503.6	4363.6	4223.6	4107.4	3994.2	3940.6	3927.2
12.5°	4369.5	4454.4	4406.8	4253.4	4028.5	3824.5	3677.0	3562.3	3511.7	3498.3
15°	4281.7	4339.8	4219.1	3977.9	3694.9	3478.9	3356.8	3271.9	3236.2	3225.8
17.5°	4235.5	4247.4	4027.0	3700.9	3400.0	3219.8	3143.9	3103.7	3090.2	3082.8
20°	4257.8	4174.4	3843.8	3443.2	3158.8	3032.2	3014.3	3003.9	3000.9	2996.4
22.5°	4369.5	4152.1	3675.5	3199.0	2947.3	2892.2	2907.1	2905.6	2902.6	2899.6
25°	4569.1	4171.5	3511.7	2966.6	2770.1	2758.1	2784.9	2784.9	2773.0	2773.0
27.5°	4832.7	4211.7	3328.5	2746.2	2609.2	2610.7	2631.6	2625.6	2612.2	2603.3
30°	5154.4	4237.0	3114.1	2548.2	2458.8	2452.8	2458.8	2433.5	2393.3	2390.3
32.5°	5483.5	4205.7	2865.4	2372.4	2299.4	2286.0	2281.6	2245.8	2199.7	2186.3
35°	5781.4	4091.0	2612.2	2232.4	2147.5	2117.8	2138.6	2126.7	2085.0	2074.6
37.5°	5998.8	3878.1	2384.3	2108.8	2038.8	2031.4	2044.8	2049.2	2000.1	1989.7
40°	6144.8	3589.2	2189.2	2004.6	2018.0	1989.7	1945.0	1913.7	1898.8	1894.4
42.5°	6262.4	3288.3	2025.4	1955.4	2022.4	1940.5	1843.7	1793.1	1819.9	1831.8
45°	6397.9	2994.9	1888.4	1894.4	2000.1	1883.9	1773.7	1724.6	1735.0	1738.0
47.5°	6584.1	2637.5	1741.0	1796.1	1925.6	1845.2	1730.5	1660.5	1611.4	1589.1
50°	6841.7	2214.6	1587.6	1685.9	1852.7	1816.9	1663.5	1589.1	1498.2	1477.4
52.5°	7020.4	1819.9	1461.0	1593.5	1787.1	1760.3	1609.9	1513.1	1417.8	1399.9
55°	6923.6	1511.6	1350.8	1490.8	1700.8	1690.3	1565.2	1435.7	1361.2	1346.3
57.5°	6439.6	1316.5	1265.9	1394.0	1595.0	1630.8	1505.7	1370.1	1316.5	1306.1
60°	5516.3	1194.4	1212.3	1328.4	1508.6	1571.2	1446.1	1334.4	1298.6	1291.2
62.5°	4280.2	1112.5	1172.1	1280.8	1441.6	1529.5	1413.3	1329.9	1316.5	1307.6
65°	3066.4	1047.0	1128.9	1233.1	1380.6	1490.8	1401.4	1324.0	1326.9	1319.5
67.5°	2083.5	988.9	1076.7	1179.5	1321.0	1456.5	1385.0	1303.1	1340.3	1331.4
70°	1458.0	932.3	1015.7	1111.0	1246.5	1408.9	1355.2	1271.8	1268.9	1233.1
72.5°	1137.8	857.8	932.3	1015.7	1151.2	1341.8	1295.7	1201.8	1152.7	1115.5
73°	1085.7	840.0	911.4	994.8	1130.4	1325.5	1279.3	1182.5	1127.4	1093.1
75°	898.0	762.5	828.0	902.5	1041.0	1248.0	1198.9	1094.6	1024.6	1003.8
77.5°	705.9	652.3	714.9	781.9	917.4	1134.8	1079.7	979.9	941.2	923.4
80°	522.7	540.6	595.7	655.3	795.3	1014.2	965.1	865.3	1038.0	994.8
82.5°	367.9	409.6	460.2	513.8	667.2	896.5	837.0	734.2	759.5	631.5
85°	217.4	268.1	315.7	361.9	481.0	743.1	691.0	585.3	479.5	457.2
87.5°	126.6	148.9	162.3	210.0	330.6	560.0	487.0	433.4	248.7	168.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)