

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: P300381

Luminaire Tested: **GLNA-AF-05-LED-E1-T4FT-7030-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P300381  
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-05-LED-E1-T4FT-7030-800  
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 3000K CCT 800mA LIGHTSQUARE WITH 16 LEDS EACH AND Type IV  
Forward Throw OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 23309 lumens  
Efficiency: N/A  
Efficacy: 111.0 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): 210  
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

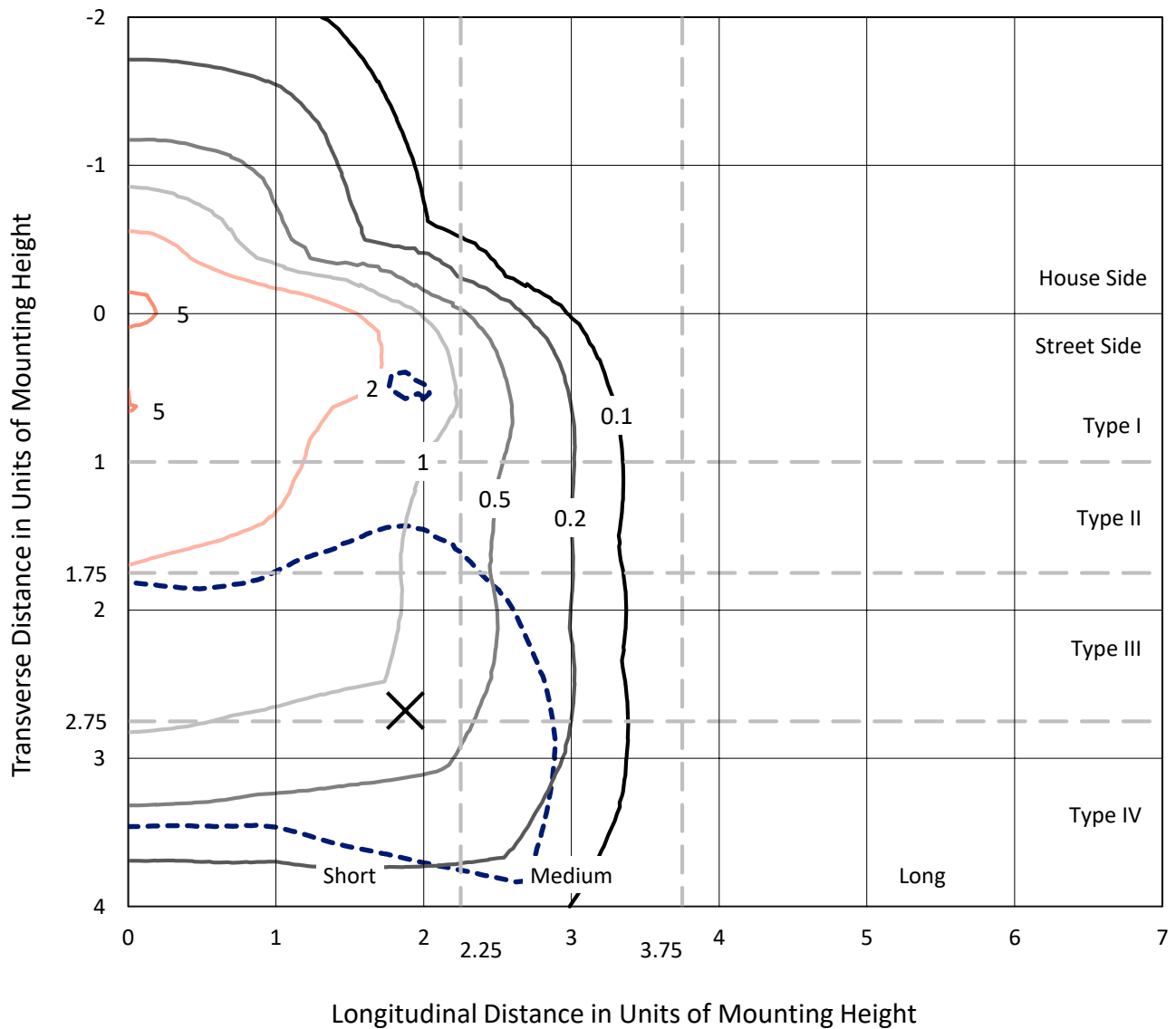


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### Iso-Footcandle Lines of Horizontal Illumination

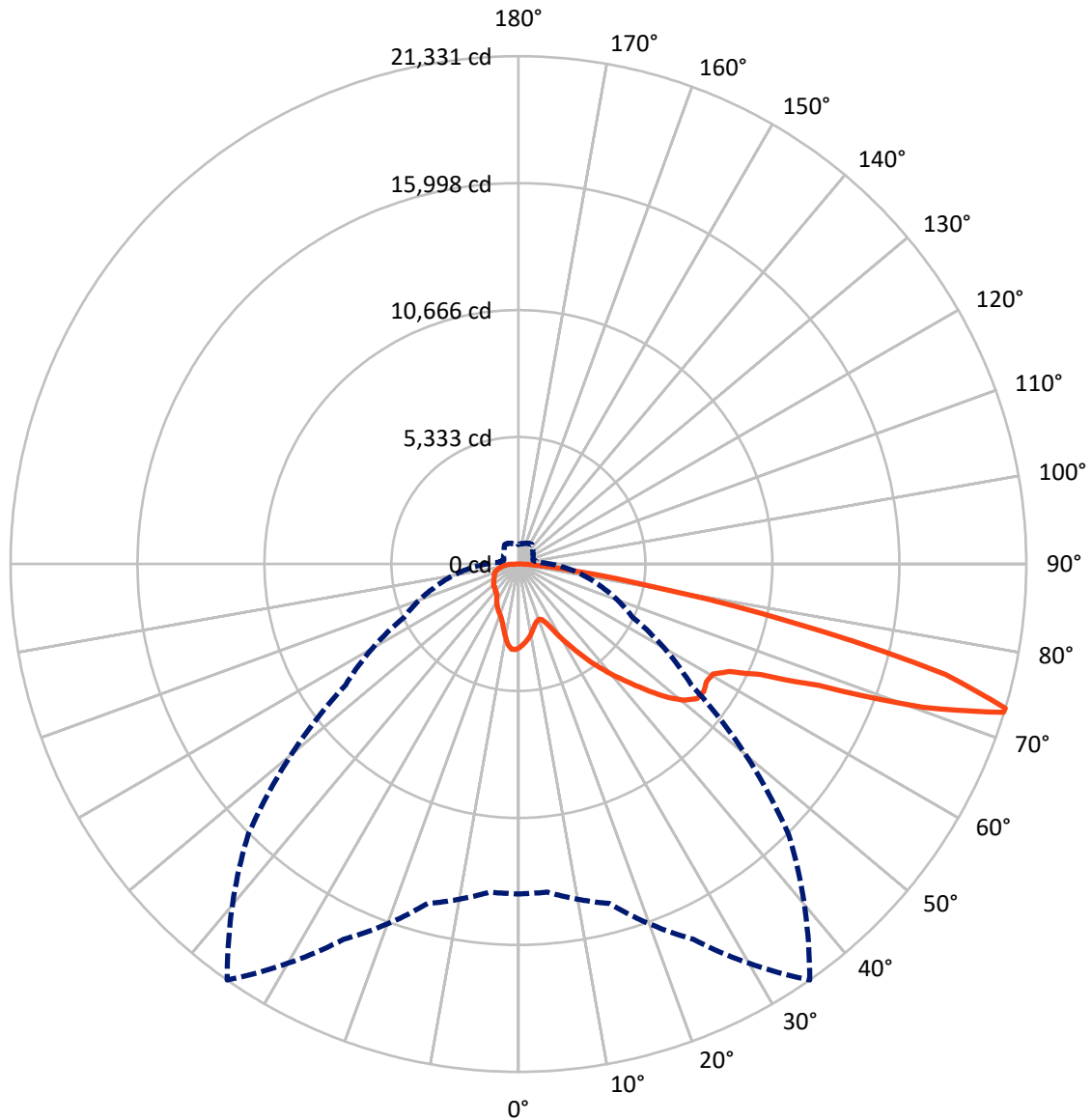
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 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	4445.7	0.0	4445.7
	% Fixture	19.1	0.0	19.1
<b>Street Side</b>	Lumens	18863.3	0.0	18863.3
	% Fixture	80.9	0.0	80.9
<b>Total</b>	Lumens	23309.0	0.0	23309.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	318.5	1.4
10°-20°	794.9	3.4
20°-30°	1285.1	5.5
30°-40°	2154.9	9.2
40°-50°	3321.6	14.3
50°-60°	4456.3	19.1
60°-70°	5936.7	25.5
70°-80°	4527.9	19.4
80°-90°	513.2	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°	23309.0	100.0
0°-180°	23309.0	100.0



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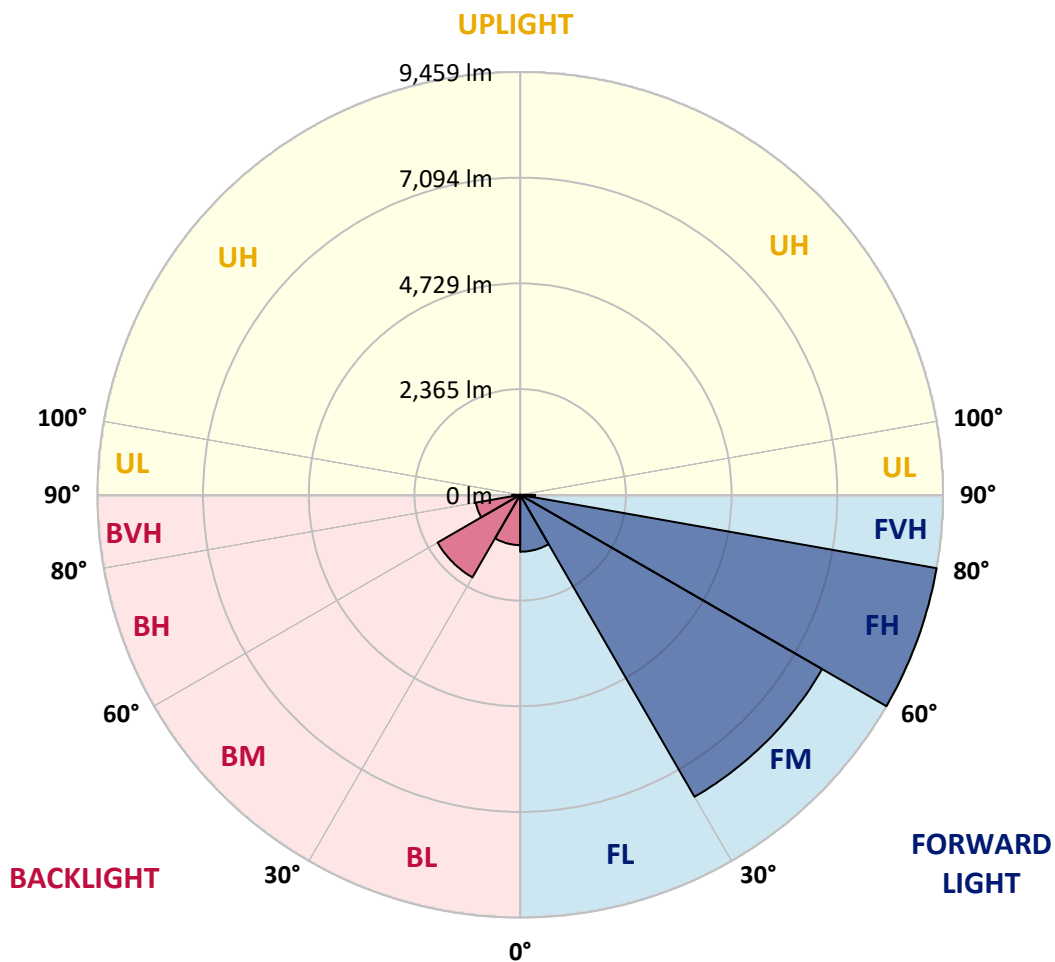
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1273.5	5.5			
FM	(30°-60°)	7799.3	33.5			
FH	(60°-80°)	9458.8	40.6			G4/12000
FVH	(80°-90°)	331.7	1.4			G3/500
BL	(0°-30°)	1125.0	4.8	B3/2500		
BM	(30°-60°)	2133.4	9.2	B2/2500		
BH	(60°-80°)	1005.8	4.3	B3/2500		G3/2500
BVH	(80°-90°)	181.5	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 IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3518.1	3518.1	3518.1	3518.1	3518.1	3518.1	3518.1	3518.1	3518.1	3518.1	3518.1
2.5°	3379.3	3386.0	3378.1	3388.2	3405.0	3422.9	3435.2	3453.1	3473.3	3501.3	3508.0
5°	3220.3	3230.4	3230.4	3248.3	3280.8	3309.9	3336.7	3365.8	3408.4	3456.5	3475.5
7.5°	3045.7	3051.3	3061.4	3088.2	3135.2	3176.7	3214.7	3261.7	3319.9	3383.7	3417.3
10°	2835.3	2843.1	2858.8	2896.8	2960.6	3017.7	3072.6	3137.5	3211.4	3290.8	3333.4
12.5°	2686.4	2684.2	2690.9	2718.9	2774.8	2844.2	2923.7	3006.5	3097.2	3190.1	3241.6
15°	2636.0	2623.7	2598.0	2591.2	2621.5	2690.9	2782.7	2884.5	2993.1	3105.0	3168.8
17.5°	2667.4	2646.1	2575.6	2524.1	2519.6	2572.2	2669.6	2783.8	2909.1	3045.7	3125.2
20°	2864.4	2814.0	2640.5	2520.7	2479.3	2505.1	2590.1	2711.0	2858.8	3040.1	3142.0
22.5°	3335.6	3261.7	2893.5	2670.7	2530.8	2499.5	2563.3	2692.0	2864.4	3109.5	3239.3
25°	4021.8	3916.5	3327.8	3044.6	2755.8	2589.0	2603.6	2735.6	2943.8	3270.7	3427.4
27.5°	4563.5	4495.2	3895.3	3571.8	3165.5	2830.8	2734.5	2845.3	3106.1	3534.8	3694.9
30°	4885.9	4844.5	4501.9	4169.5	3688.2	3215.8	2985.3	3051.3	3360.2	3900.9	4032.9
32.5°	5259.7	5235.1	5067.2	4761.6	4252.3	3721.8	3382.6	3359.1	3700.5	4340.8	4401.2
35°	5647.0	5639.2	5540.7	5321.3	4857.9	4388.9	3909.8	3750.9	4071.0	4797.4	4759.4
37.5°	6007.4	5994.0	5936.9	5809.3	5491.4	5105.3	4447.1	4152.7	4470.6	5234.0	5065.0
40°	6671.2	6566.0	6370.1	6273.8	6131.7	5708.6	4873.6	4527.7	4884.8	5650.4	5329.1
42.5°	7480.5	7309.2	6944.3	6812.2	6792.1	6184.3	5164.6	4891.5	5302.3	6063.4	5588.8
45°	8117.4	7956.2	7641.7	7474.9	7548.8	6615.2	5456.7	5279.9	5732.1	6496.6	5856.3
47.5°	8796.8	8543.8	8127.5	8177.8	8339.0	7022.7	5754.5	5697.4	6203.3	6981.3	6188.8
50°	8821.4	8627.8	8445.3	8746.4	8997.2	7397.7	6127.2	6135.0	6779.8	7591.3	6630.9
52.5°	8309.9	8268.5	8558.4	9031.9	9393.4	7694.3	6551.4	6587.3	7517.4	8292.0	7116.7
55°	8130.8	8083.8	8418.5	8932.3	9447.1	7939.4	7011.5	7076.4	8409.5	9030.8	7590.2
57.5°	8567.4	8463.3	8485.6	8885.2	9316.2	8208.0	7512.9	7643.9	9378.9	9676.6	7894.6
60°	9787.4	9564.7	9141.6	9131.5	9386.7	8611.0	8092.8	8252.8	10386.3	9985.5	7776.0
62.5°	11498.9	11276.1	10483.6	9967.6	9929.6	9275.9	8804.7	8847.2	10968.3	9566.9	7051.8
65°	13351.4	13152.1	12266.7	11538.1	11186.6	10377.3	9631.8	9112.5	10778.0	8415.1	5784.7
67.5°	15600.1	15386.3	14625.2	13952.4	13614.4	12154.8	10212.8	8858.4	9570.3	6519.0	4158.3
70°	17172.8	16954.5	16654.5	17199.6	18026.8	14719.2	10287.8	7825.2	7148.0	4332.9	2502.8
72.5°	15121.0	15019.2	15566.5	17862.3	21307.6	16275.1	9299.4	5697.4	4151.6	2300.2	1448.4
73°	13853.9	13831.6	14765.1	17397.7	21331.1	16035.5	8866.2	5295.6	3560.6	2034.9	1324.2
75°	6255.9	6436.1	8482.3	13288.7	18532.7	13213.7	6240.3	3037.9	2011.4	1405.9	999.6
77.5°	1503.3	1565.9	2653.9	6310.8	11703.7	7874.5	2827.4	1502.1	1286.1	992.8	729.8
80°	640.3	661.5	1021.9	2331.6	5510.5	3171.1	1302.9	1006.3	889.9	692.9	511.5
82.5°	355.9	378.3	579.8	1057.8	2224.1	1081.3	794.7	700.7	585.4	417.5	332.4
85°	201.5	213.8	339.2	591.0	942.5	434.3	475.7	465.6	330.2	214.9	163.4
87.5°	95.1	103.0	163.4	274.2	369.4	170.1	241.8	266.4	207.1	131.0	85.1
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°	3518.1	3518.1	3518.1	3518.1	3518.1	3518.1	3518.1	3518.1	3518.1	3518.1
2.5°	3515.8	3536.0	3559.5	3571.8	3583.0	3596.4	3609.8	3609.8	3612.1	3613.2
5°	3491.2	3532.6	3569.5	3585.2	3588.6	3588.6	3585.2	3567.3	3551.6	3558.4
7.5°	3439.7	3500.1	3531.5	3525.9	3483.4	3434.1	3392.7	3342.3	3316.6	3312.1
10°	3365.8	3435.2	3440.8	3384.9	3279.6	3174.4	3087.1	3002.0	2961.7	2951.7
12.5°	3284.1	3347.9	3312.1	3196.8	3027.8	2874.4	2763.6	2677.4	2639.4	2629.3
15°	3218.1	3261.7	3171.1	2989.7	2777.1	2614.8	2523.0	2459.2	2432.3	2424.5
17.5°	3183.4	3192.3	3026.7	2781.5	2555.4	2420.0	2362.9	2332.7	2322.6	2317.0
20°	3200.2	3137.5	2889.0	2587.9	2374.1	2279.0	2265.5	2257.7	2255.5	2252.1
22.5°	3284.1	3120.7	2762.5	2404.3	2215.2	2173.7	2184.9	2183.8	2181.6	2179.3
25°	3434.1	3135.2	2639.4	2229.7	2082.0	2073.0	2093.1	2093.1	2084.2	2084.2
27.5°	3632.2	3165.5	2501.7	2064.0	1961.1	1962.2	1977.9	1973.4	1963.3	1956.6
30°	3874.0	3184.5	2340.5	1915.2	1848.0	1843.5	1848.0	1829.0	1798.8	1796.5
32.5°	4121.4	3161.0	2153.6	1783.1	1728.2	1718.2	1714.8	1687.9	1653.3	1643.2
35°	4345.2	3074.8	1963.3	1677.9	1614.1	1591.7	1607.4	1598.4	1567.1	1559.2
37.5°	4508.7	2914.7	1792.0	1585.0	1532.4	1526.8	1536.8	1540.2	1503.3	1495.4
40°	4618.4	2697.6	1645.4	1506.6	1516.7	1495.4	1461.8	1438.3	1427.1	1423.8
42.5°	4706.8	2471.5	1522.3	1469.7	1520.1	1458.5	1385.7	1347.7	1367.8	1376.8
45°	4808.6	2251.0	1419.3	1423.8	1503.3	1416.0	1333.1	1296.2	1304.0	1306.3
47.5°	4948.6	1982.3	1308.5	1349.9	1447.3	1386.8	1300.7	1248.1	1211.1	1194.3
50°	5142.2	1664.4	1193.2	1267.1	1392.4	1365.6	1250.3	1194.3	1126.0	1110.4
52.5°	5276.5	1367.8	1098.1	1197.7	1343.2	1323.0	1210.0	1137.2	1065.6	1052.2
55°	5203.8	1136.1	1015.2	1120.4	1278.3	1270.4	1176.4	1079.0	1023.1	1011.9
57.5°	4840.0	989.5	951.4	1047.7	1198.8	1225.7	1131.6	1029.8	989.5	981.7
60°	4146.0	897.7	911.1	998.4	1133.9	1180.9	1086.9	1002.9	976.1	970.5
62.5°	3217.0	836.1	880.9	962.6	1083.5	1149.6	1062.2	999.6	989.5	982.8
65°	2304.7	786.9	848.5	926.8	1037.6	1120.4	1053.3	995.1	997.3	991.7
67.5°	1565.9	743.2	809.3	886.5	992.8	1094.7	1041.0	979.4	1007.4	1000.7
70°	1095.8	700.7	763.4	835.0	936.9	1058.9	1018.6	955.9	953.7	926.8
72.5°	855.2	644.7	700.7	763.4	865.2	1008.5	973.8	903.3	866.4	838.4
73°	816.0	631.3	685.0	747.7	849.6	996.2	961.5	888.7	847.3	821.6
75°	675.0	573.1	622.3	678.3	782.4	938.0	901.1	822.7	770.1	754.4
77.5°	530.6	490.3	537.3	587.6	689.5	852.9	811.5	736.5	707.4	694.0
80°	392.9	406.3	447.7	492.5	597.7	762.3	725.3	650.3	780.2	747.7
82.5°	276.5	307.8	345.9	386.2	501.5	673.8	629.1	551.8	570.9	474.6
85°	163.4	201.5	237.3	272.0	361.5	558.5	519.4	439.9	360.4	343.6
87.5°	95.1	111.9	122.0	157.8	248.5	420.9	366.0	325.7	186.9	126.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)