

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: P300315

Luminaire Tested: **GLNA-AF-04-LED-E1-T4FT-7030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P300315  
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-04-LED-E1-T4FT-7030  
Description: GALLEONAIRE AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 3000K 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: 23286.2 lumens  
Efficiency: N/A  
Efficacy: 103.5 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

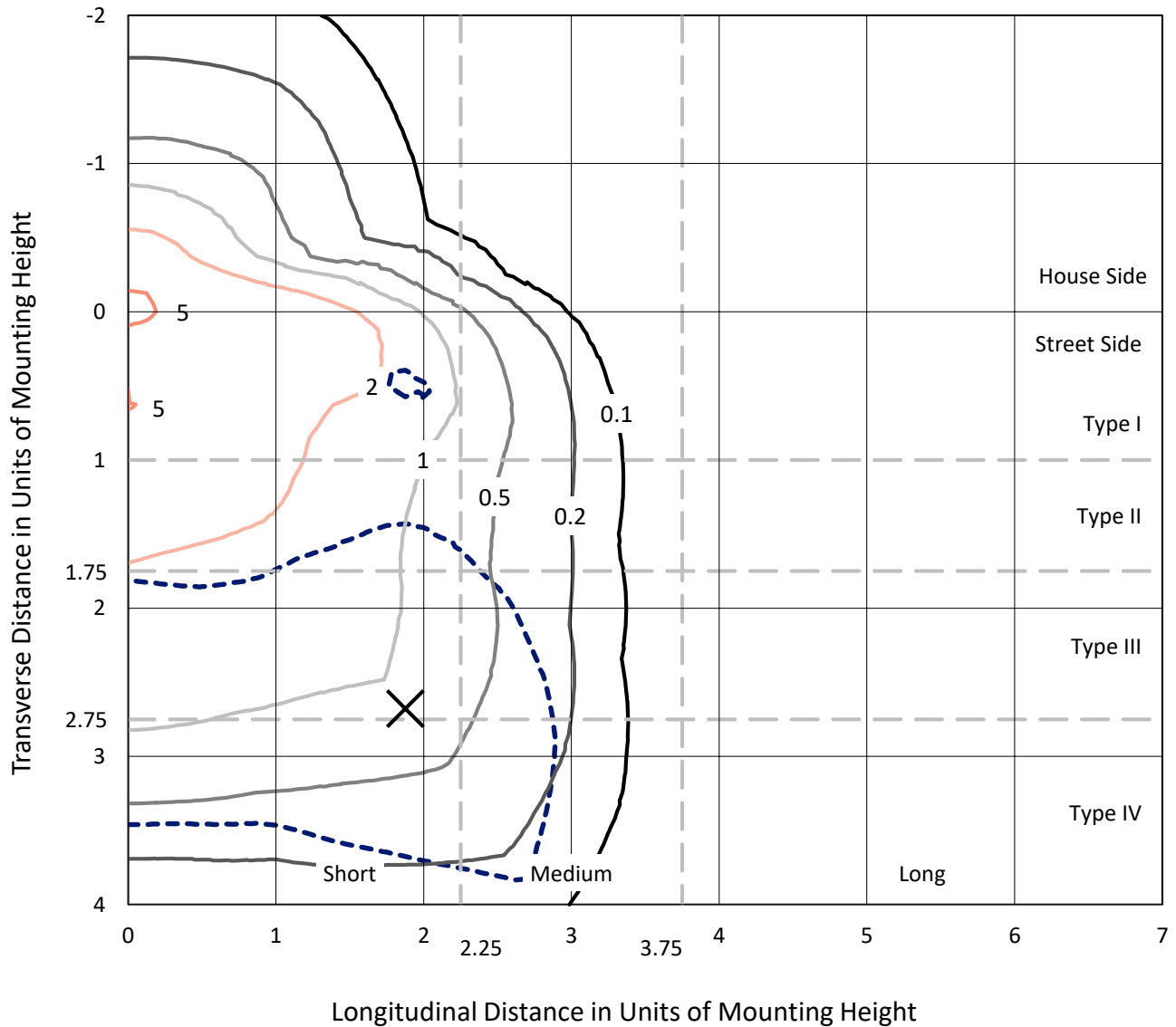
Input Watts (W): 225  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

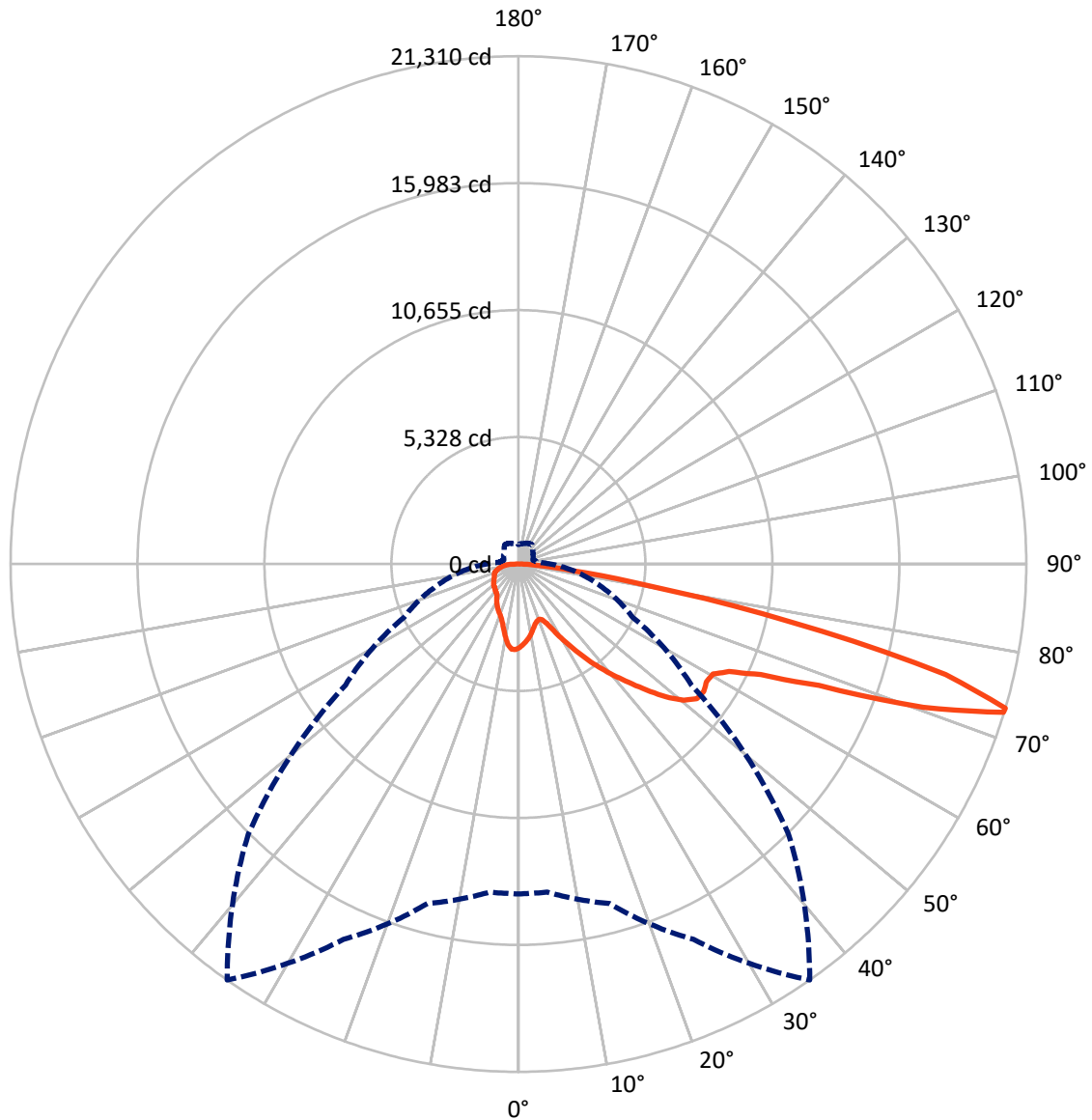
× Max cd  
 - - - 1/2 Max cd



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	4441.3	0.0	4441.3
	% Fixture	19.1	0.0	19.1
<b>Street Side</b>	Lumens	18844.9	0.0	18844.9
	% Fixture	80.9	0.0	80.9
<b>Total</b>	Lumens	23286.2	0.0	23286.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	318.2	1.4
10°-20°	794.1	3.4
20°-30°	1283.8	5.5
30°-40°	2152.7	9.2
40°-50°	3318.4	14.3
50°-60°	4451.9	19.1
60°-70°	5930.9	25.5
70°-80°	4523.5	19.4
80°-90°	512.7	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°	23286.2	100.0
0°-180°	23286.2	100.0

**Coefficient of Utilization**



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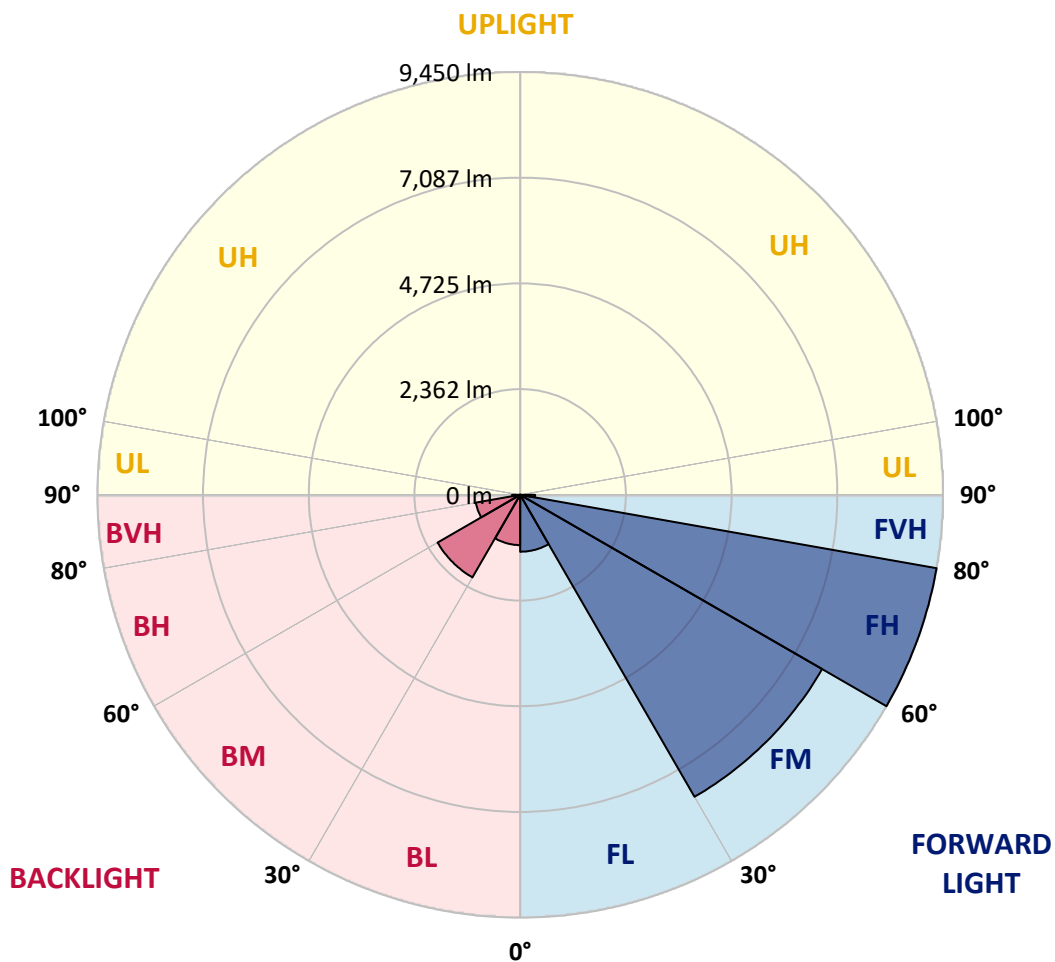
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1272.2	5.5			
FM	(30°-60°)	7791.7	33.5			
FH	(60°-80°)	9449.5	40.6			G4/12000
FVH	(80°-90°)	331.4	1.4			G3/500
BL	(0°-30°)	1123.9	4.8	B3/2500		
BM	(30°-60°)	2131.3	9.2	B2/2500		
BH	(60°-80°)	1004.8	4.3	B3/2500		G3/2500
BVH	(80°-90°)	181.3	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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CATALOG NUMBER: GLNA-AF-04-LED-E1-T4FT-7030

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3514.6	3514.6	3514.6	3514.6	3514.6	3514.6	3514.6	3514.6	3514.6	3514.6	3514.6
2.5°	3376.0	3382.7	3374.8	3384.9	3401.7	3419.6	3431.9	3449.8	3469.9	3497.8	3504.5
5°	3217.2	3227.2	3227.2	3245.1	3277.5	3306.6	3333.5	3362.5	3405.0	3453.1	3472.1
7.5°	3042.7	3048.3	3058.4	3085.2	3132.2	3173.5	3211.6	3258.5	3316.7	3380.4	3414.0
10°	2832.5	2840.3	2856.0	2894.0	2957.7	3014.8	3069.6	3134.4	3208.2	3287.6	3330.1
12.5°	2683.8	2681.5	2688.2	2716.2	2772.1	2841.4	2920.8	3003.6	3094.2	3187.0	3238.4
15°	2633.4	2621.1	2595.4	2588.7	2618.9	2688.2	2779.9	2881.7	2990.2	3102.0	3165.7
17.5°	2664.8	2643.5	2573.1	2521.6	2517.1	2569.7	2667.0	2781.0	2906.3	3042.7	3122.1
20°	2861.6	2811.2	2637.9	2518.3	2476.9	2502.6	2587.6	2708.4	2856.0	3037.1	3138.9
22.5°	3332.3	3258.5	2890.6	2668.1	2528.3	2497.0	2560.8	2689.4	2861.6	3106.5	3236.2
25°	4017.8	3912.7	3324.5	3041.6	2753.1	2586.5	2601.0	2733.0	2941.0	3267.5	3424.0
27.5°	4559.0	4490.8	3891.5	3568.3	3162.4	2828.0	2731.8	2842.6	3103.1	3531.4	3691.3
30°	4881.1	4839.7	4497.5	4165.4	3684.6	3212.7	2982.3	3048.3	3356.9	3897.0	4029.0
32.5°	5254.6	5230.0	5062.2	4757.0	4248.2	3718.1	3379.3	3355.8	3696.9	4336.5	4396.9
35°	5641.5	5633.7	5535.3	5316.1	4853.1	4384.6	3906.0	3747.2	4067.0	4792.8	4754.7
37.5°	6001.6	5988.1	5931.1	5803.6	5486.1	5100.3	4442.7	4148.7	4466.2	5228.9	5060.0
40°	6664.7	6559.6	6363.9	6267.7	6125.7	5703.0	4868.8	4523.3	4880.0	5644.8	5323.9
42.5°	7473.2	7302.1	6937.5	6805.6	6785.4	6178.2	5159.5	4886.7	5297.1	6057.5	5583.3
45°	8109.4	7948.4	7634.2	7467.6	7541.4	6608.8	5451.4	5274.7	5726.5	6490.2	5850.6
47.5°	8788.2	8535.5	8119.5	8169.8	8330.8	7015.8	5748.8	5691.8	6197.3	6974.4	6182.7
50°	8812.8	8619.4	8437.1	8737.9	8988.4	7390.4	6121.2	6129.0	6773.1	7583.9	6624.4
52.5°	8301.8	8260.4	8550.0	9023.0	9384.2	7686.7	6545.0	6580.8	7510.1	8283.9	7109.7
55°	8122.9	8075.9	8410.2	8923.5	9437.9	7931.6	7004.6	7069.5	8401.3	9021.9	7582.7
57.5°	8559.0	8455.0	8477.3	8876.5	9307.1	8200.0	7505.6	7636.4	9369.7	9667.1	7886.9
60°	9777.8	9555.3	9132.6	9122.6	9377.5	8602.6	8084.8	8244.7	10376.1	9975.8	7768.4
62.5°	11487.6	11265.1	10473.4	9957.9	9919.9	9266.8	8796.0	8838.5	10957.6	9557.6	7044.9
65°	13338.3	13139.3	12254.7	11526.8	11175.6	10367.2	9622.4	9103.5	10767.5	8406.9	5779.0
67.5°	15584.8	15371.3	14610.9	13938.8	13601.1	12142.9	10202.8	8849.7	9560.9	6512.6	4154.2
70°	17156.0	16937.9	16638.2	17182.8	18009.2	14704.8	10277.7	7817.6	7141.0	4328.7	2500.4
72.5°	15106.2	15004.5	15551.3	17844.8	21286.7	16259.1	9290.3	5691.8	4147.5	2298.0	1447.0
73°	13840.4	13818.0	14750.6	17380.7	21310.2	16019.8	8857.5	5290.4	3557.1	2033.0	1322.9
75°	6249.8	6429.8	8474.0	13275.7	18514.6	13200.8	6234.2	3034.9	2009.5	1404.5	998.6
77.5°	1501.8	1564.4	2651.3	6304.6	11692.3	7866.8	2824.7	1500.7	1284.9	991.9	729.1
80°	639.6	660.9	1020.9	2329.3	5505.1	3168.0	1301.6	1005.3	889.0	692.2	511.0
82.5°	355.6	378.0	579.2	1056.7	2221.9	1080.2	793.9	700.0	584.8	417.1	332.1
85°	201.3	213.6	338.8	590.4	941.6	433.9	475.2	465.2	329.9	214.7	163.3
87.5°	95.0	102.9	163.3	274.0	369.0	170.0	241.5	266.1	206.9	130.8	85.0
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°	3514.6	3514.6	3514.6	3514.6	3514.6	3514.6	3514.6	3514.6	3514.6	3514.6
2.5°	3512.4	3532.5	3556.0	3568.3	3579.5	3592.9	3606.3	3606.3	3608.5	3609.7
5°	3487.8	3529.1	3566.0	3581.7	3585.1	3585.1	3581.7	3563.8	3548.2	3554.9
7.5°	3436.3	3496.7	3528.0	3522.4	3479.9	3430.7	3389.4	3339.0	3313.3	3308.9
10°	3362.5	3431.9	3437.5	3381.5	3276.4	3171.3	3084.1	2999.1	2958.8	2948.8
12.5°	3280.9	3344.6	3308.9	3193.7	3024.8	2871.6	2760.9	2674.8	2636.8	2626.7
15°	3214.9	3258.5	3168.0	2986.8	2774.3	2612.2	2520.5	2456.8	2429.9	2422.1
17.5°	3180.3	3189.2	3023.7	2778.8	2552.9	2417.6	2360.6	2330.4	2320.3	2314.7
20°	3197.0	3134.4	2886.2	2585.4	2371.8	2276.7	2263.3	2255.5	2253.2	2249.9
22.5°	3280.9	3117.6	2759.8	2402.0	2213.0	2171.6	2182.8	2181.7	2179.4	2177.2
25°	3430.7	3132.2	2636.8	2227.5	2079.9	2071.0	2091.1	2091.1	2082.2	2082.2
27.5°	3628.7	3162.4	2499.3	2062.0	1959.1	1960.3	1975.9	1971.4	1961.4	1954.7
30°	3870.2	3181.4	2338.2	1913.3	1846.2	1841.7	1846.2	1827.2	1797.0	1794.8
32.5°	4117.3	3157.9	2151.5	1781.3	1726.6	1716.5	1713.1	1686.3	1651.6	1641.6
35°	4341.0	3071.8	1961.4	1676.2	1612.5	1590.1	1605.8	1596.8	1565.5	1557.7
37.5°	4504.2	2911.9	1790.3	1583.4	1530.9	1525.3	1535.3	1538.7	1501.8	1494.0
40°	4613.8	2694.9	1643.8	1505.1	1515.2	1494.0	1460.4	1436.9	1425.7	1422.4
42.5°	4702.2	2469.1	1520.8	1468.2	1518.6	1457.1	1384.4	1346.4	1366.5	1375.4
45°	4803.9	2248.8	1417.9	1422.4	1501.8	1414.6	1331.8	1294.9	1302.7	1305.0
47.5°	4943.7	1980.4	1307.2	1348.6	1445.9	1385.5	1299.4	1246.8	1209.9	1193.2
50°	5137.2	1662.8	1192.0	1265.8	1391.1	1364.2	1249.1	1193.2	1124.9	1109.3
52.5°	5271.4	1366.5	1097.0	1196.5	1341.9	1321.8	1208.8	1136.1	1064.6	1051.1
55°	5198.7	1135.0	1014.2	1119.4	1277.0	1269.2	1175.3	1078.0	1022.1	1010.9
57.5°	4835.2	988.5	950.5	1046.7	1197.6	1224.5	1130.5	1028.8	988.5	980.7
60°	4141.9	896.8	910.2	997.5	1132.8	1179.7	1085.8	1001.9	975.1	969.5
62.5°	3213.8	835.3	880.1	961.7	1082.5	1148.4	1061.2	998.6	988.5	981.8
65°	2302.4	786.1	847.6	925.9	1036.6	1119.4	1052.3	994.1	996.3	990.8
67.5°	1564.4	742.5	808.5	885.6	991.9	1093.6	1040.0	978.5	1006.4	999.7
70°	1094.8	700.0	762.6	834.2	936.0	1057.8	1017.6	955.0	952.7	925.9
72.5°	854.3	644.1	700.0	762.6	864.4	1007.5	972.9	902.4	865.5	837.6
73°	815.2	630.7	684.4	747.0	848.7	995.2	960.6	887.9	846.5	820.8
75°	674.3	572.5	621.7	677.7	781.6	937.1	900.2	821.9	769.3	753.7
77.5°	530.0	489.8	536.8	587.1	688.8	852.1	810.7	735.8	706.7	693.3
80°	392.5	405.9	447.3	492.0	597.1	761.5	724.6	649.7	779.4	747.0
82.5°	276.2	307.5	345.5	385.8	501.0	673.2	628.4	551.3	570.3	474.1
85°	163.3	201.3	237.1	271.7	361.2	558.0	518.9	439.5	360.1	343.3
87.5°	95.0	111.8	121.9	157.7	248.2	420.5	365.7	325.4	186.7	126.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)