

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: P300447

Luminaire Tested: **GLNA-AF-06-LED-E1-T4FT-7030-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P300447  
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-7030-600  
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 3000K CCT 600mA LIGHTSQUARE WITH 16 LEDS EACH AND Type IV Forward Throw OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 22744.9 lumens  
Efficiency: N/A  
Efficacy: 117.8 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): 193  
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

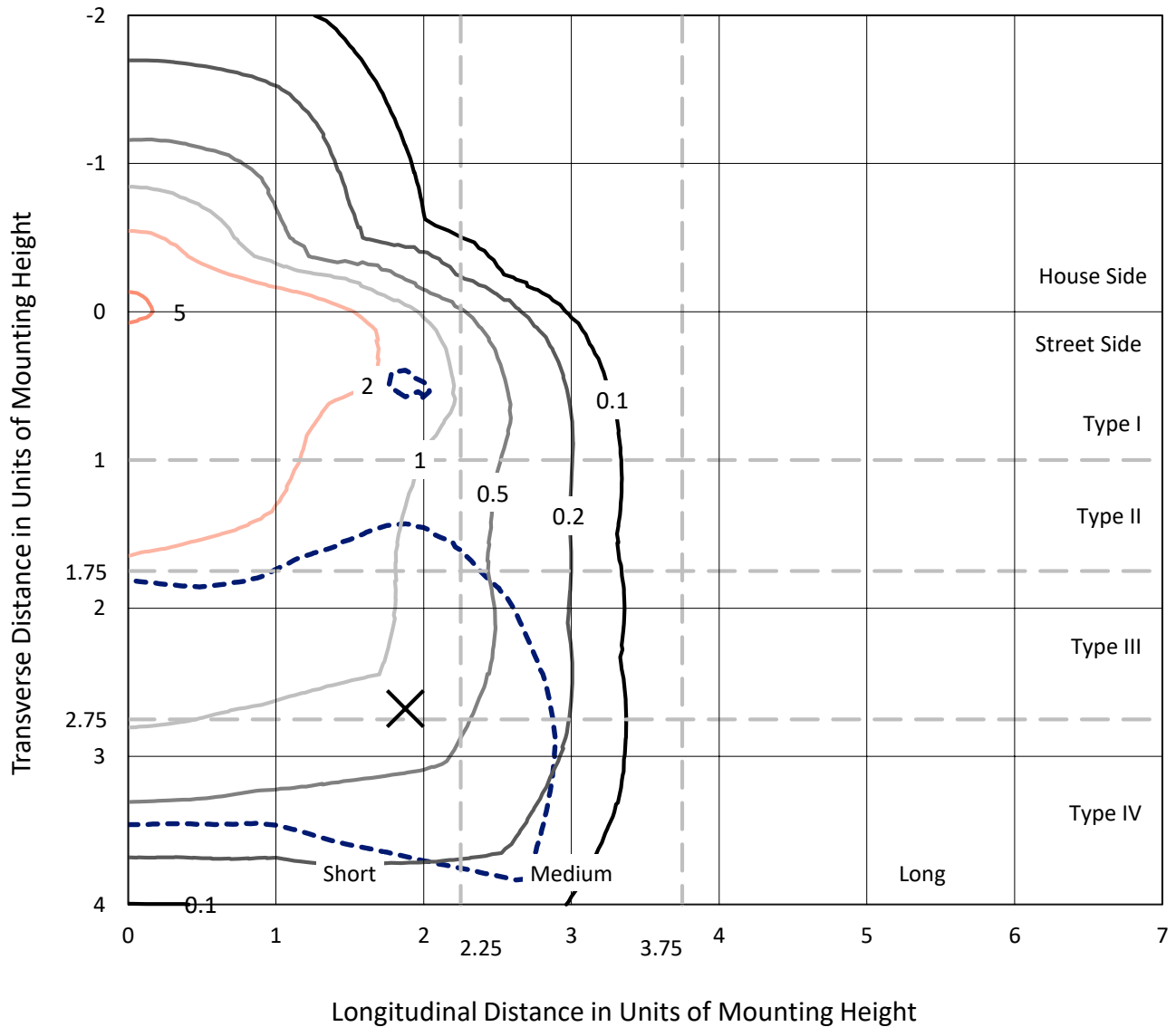


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### Iso-Footcandle Lines of Horizontal Illumination

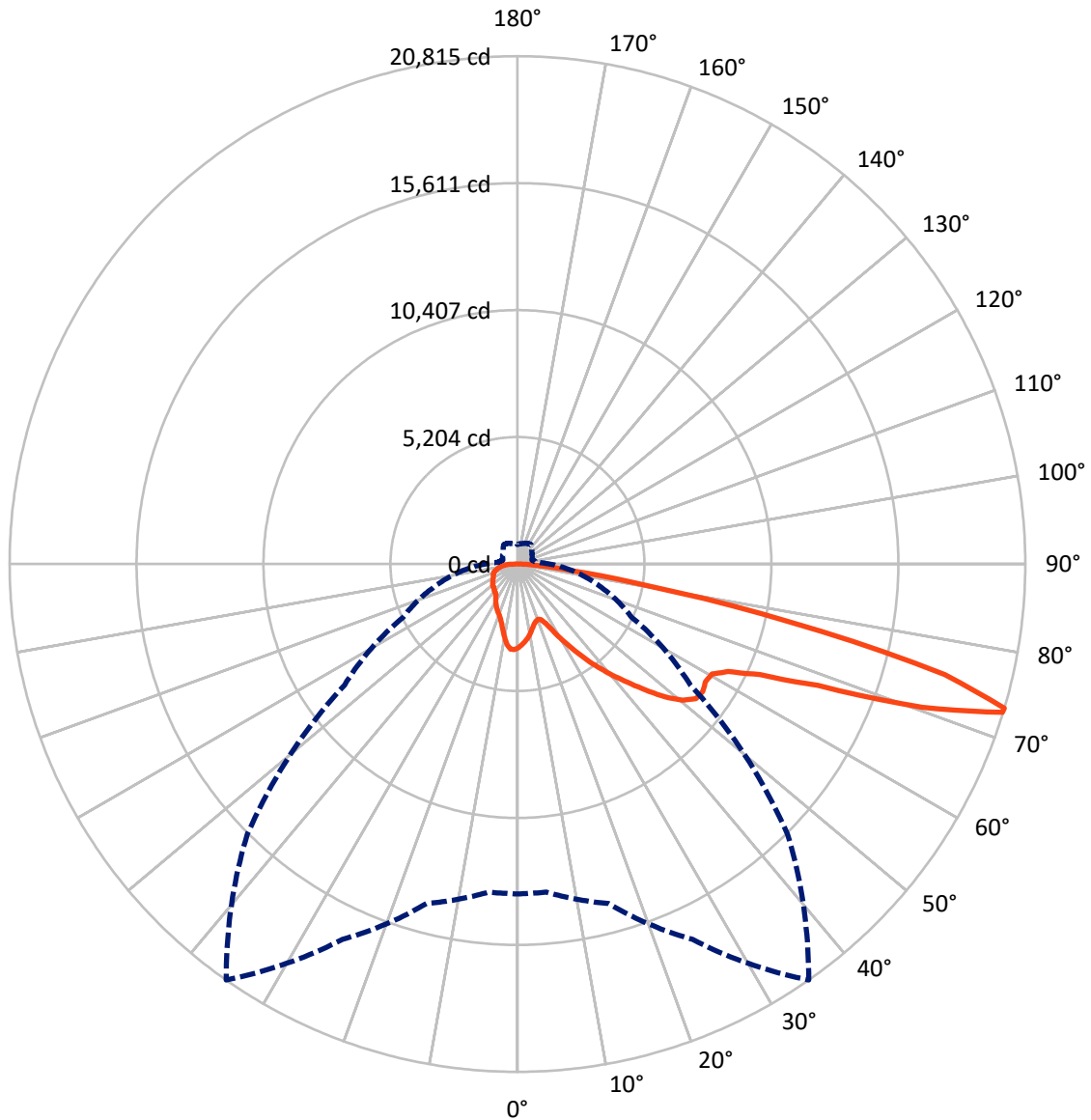
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 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	4338.1	0.0	4338.1
	% Fixture	19.1	0.0	19.1
<b>Street Side</b>	Lumens	18406.8	0.0	18406.8
	% Fixture	80.9	0.0	80.9
<b>Total</b>	Lumens	22744.9	0.0	22744.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	310.8	1.4
10°-20°	775.6	3.4
20°-30°	1254.0	5.5
30°-40°	2102.7	9.2
40°-50°	3241.2	14.3
50°-60°	4348.5	19.1
60°-70°	5793.0	25.5
70°-80°	4418.3	19.4
80°-90°	500.8	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°	22744.9	100.0
0°-180°	22744.9	100.0

**Coefficient of Utilization**



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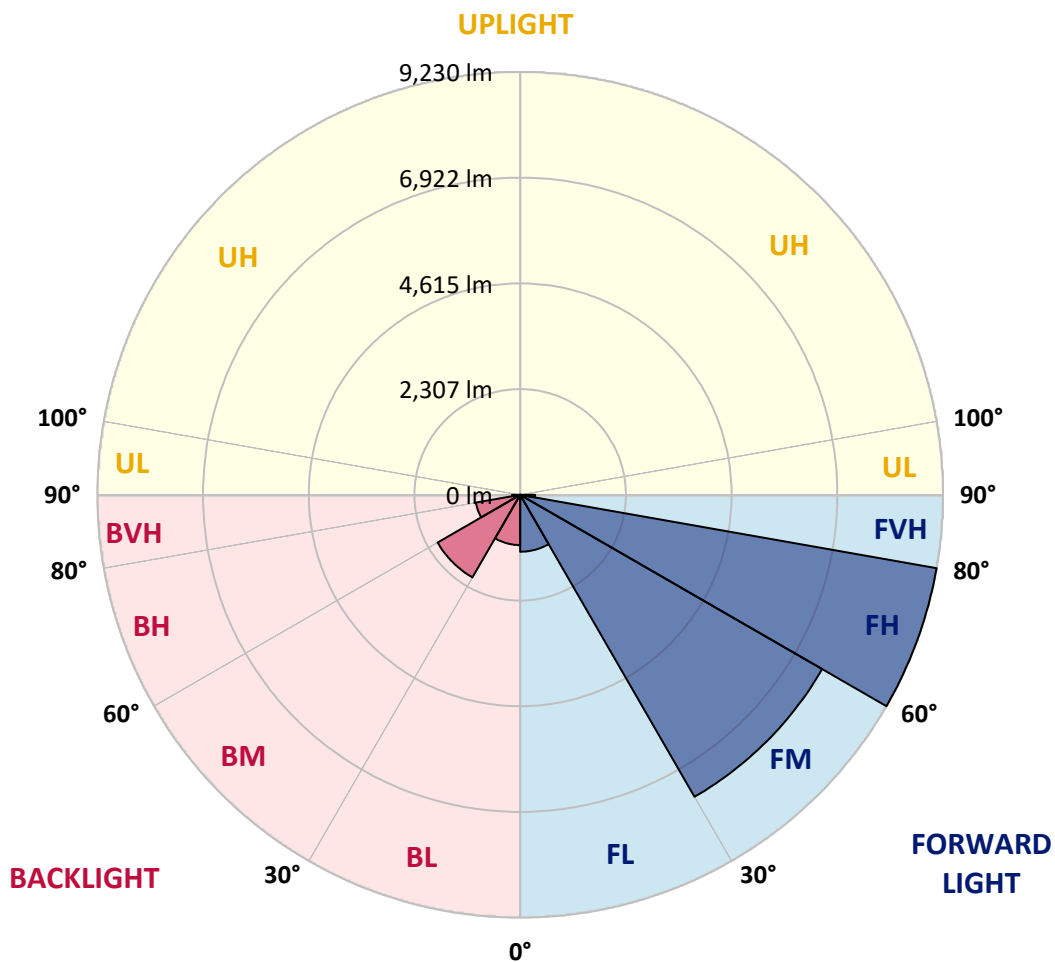
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1242.6	5.5			
FM	(30°-60°)	7610.6	33.5			
FH	(60°-80°)	9229.9	40.6			G4/12000
FVH	(80°-90°)	323.7	1.4			G3/500
BL	(0°-30°)	1097.7	4.8	B3/2500		
BM	(30°-60°)	2081.8	9.2	B2/2500		
BH	(60°-80°)	981.5	4.3	B2/1000		G2/1000
BVH	(80°-90°)	177.1	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°	3432.9	3432.9	3432.9	3432.9	3432.9	3432.9	3432.9	3432.9	3432.9	3432.9	3432.9
2.5°	3297.5	3304.0	3296.4	3306.2	3322.6	3340.1	3352.1	3369.6	3389.2	3416.5	3423.1
5°	3142.4	3152.2	3152.2	3169.7	3201.4	3229.8	3256.0	3284.4	3325.9	3372.8	3391.4
7.5°	2972.0	2977.4	2987.3	3013.5	3059.4	3099.8	3136.9	3182.8	3239.6	3301.8	3334.6
10°	2766.6	2774.3	2789.6	2826.7	2889.0	2944.7	2998.2	3061.5	3133.6	3211.2	3252.7
12.5°	2621.4	2619.2	2625.7	2653.0	2707.7	2775.4	2852.9	2933.8	3022.2	3112.9	3163.1
15°	2572.2	2560.2	2535.1	2528.5	2558.0	2625.7	2715.3	2814.7	2920.6	3029.9	3092.1
17.5°	2602.8	2582.1	2513.2	2463.0	2458.6	2510.0	2605.0	2716.4	2838.7	2972.0	3049.5
20°	2795.0	2745.9	2576.6	2459.7	2419.3	2444.4	2527.4	2645.4	2789.6	2966.5	3065.9
22.5°	3254.9	3182.8	2823.4	2606.1	2469.6	2439.0	2501.2	2626.8	2795.0	3034.2	3160.9
25°	3924.4	3821.7	3247.2	2970.9	2689.1	2526.3	2540.5	2669.4	2872.6	3191.5	3344.4
27.5°	4453.1	4386.4	3801.0	3485.3	3088.9	2762.3	2668.3	2776.5	3031.0	3449.3	3605.5
30°	4767.6	4727.2	4393.0	4068.6	3598.9	3138.0	2913.0	2977.4	3278.9	3806.5	3935.3
32.5°	5132.4	5108.4	4944.6	4646.4	4149.4	3631.7	3300.7	3277.8	3610.9	4235.7	4294.7
35°	5510.3	5502.7	5406.6	5192.5	4740.3	4282.7	3815.2	3660.1	3972.5	4681.3	4644.2
37.5°	5862.0	5848.9	5793.2	5668.7	5358.5	4981.7	4339.5	4052.2	4362.4	5107.3	4942.4
40°	6509.7	6407.1	6215.9	6122.0	5983.3	5570.4	4755.6	4418.1	4766.5	5513.6	5200.2
42.5°	7299.4	7132.3	6776.3	6647.4	6627.7	6034.6	5039.6	4773.1	5173.9	5916.7	5453.5
45°	7920.9	7763.6	7456.7	7294.0	7366.1	6455.1	5324.7	5152.1	5593.4	6339.4	5714.6
47.5°	8583.9	8337.1	7930.7	7979.9	8137.2	6852.7	5615.2	5559.5	6053.2	6812.3	6039.0
50°	8607.9	8419.0	8240.9	8534.8	8779.4	7218.6	5978.9	5986.6	6615.7	7407.6	6470.4
52.5°	8108.8	8068.4	8351.3	8813.3	9166.1	7508.1	6392.9	6427.8	7335.5	8091.3	6944.5
55°	7934.0	7888.2	8214.7	8716.1	9218.5	7747.3	6841.8	6905.1	8206.0	8812.2	7406.5
57.5°	8360.0	8258.4	8280.3	8670.2	9090.7	8009.4	7331.1	7458.9	9151.9	9442.4	7703.6
60°	9550.5	9333.2	8920.3	8910.5	9159.5	8402.6	7896.9	8053.1	10134.9	9743.9	7587.8
62.5°	11220.6	11003.2	10229.9	9726.4	9689.3	9051.4	8591.6	8633.1	10702.9	9335.4	6881.1
65°	13028.2	12833.8	11969.8	11258.8	10915.8	10126.1	9398.7	8891.9	10517.2	8211.5	5644.7
67.5°	15222.5	15013.9	14271.2	13614.8	13284.9	11860.6	9965.6	8644.0	9338.6	6361.2	4057.7
70°	16757.1	16544.1	16251.4	16783.3	17590.5	14362.9	10038.8	7635.8	6975.0	4228.1	2442.2
72.5°	14755.1	14655.7	15189.8	17430.0	20791.9	15881.2	9074.3	5559.5	4051.1	2244.6	1413.4
73°	13518.6	13496.8	14407.7	16976.7	20814.8	15647.4	8651.6	5167.4	3474.4	1985.7	1292.1
75°	6104.5	6280.4	8277.0	12967.1	18084.2	12893.9	6089.2	2964.3	1962.8	1371.9	975.4
77.5°	1466.9	1528.0	2589.7	6158.0	11420.5	7683.9	2759.0	1465.8	1255.0	968.8	712.1
80°	624.8	645.5	997.2	2275.1	5377.1	3094.3	1271.4	981.9	868.3	676.1	499.2
82.5°	347.3	369.2	565.8	1032.2	2170.3	1055.1	775.5	683.7	571.2	407.4	324.4
85°	196.6	208.6	330.9	576.7	919.7	423.8	464.2	454.4	322.2	209.7	159.5
87.5°	92.8	100.5	159.5	267.6	360.4	166.0	235.9	260.0	202.1	127.8	83.0
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°	3432.9	3432.9	3432.9	3432.9	3432.9	3432.9	3432.9	3432.9	3432.9	3432.9
2.5°	3430.7	3450.4	3473.3	3485.3	3496.3	3509.4	3522.5	3522.5	3524.7	3525.7
5°	3406.7	3447.1	3483.2	3498.4	3501.7	3501.7	3498.4	3481.0	3465.7	3472.2
7.5°	3356.5	3415.4	3446.0	3440.6	3399.0	3351.0	3310.6	3261.4	3236.3	3231.9
10°	3284.4	3352.1	3357.5	3302.9	3200.3	3097.6	3012.4	2929.4	2890.1	2880.2
12.5°	3204.6	3266.9	3231.9	3119.4	2954.5	2804.9	2696.7	2612.6	2575.5	2565.7
15°	3140.2	3182.8	3094.3	2917.4	2709.8	2551.5	2461.9	2399.6	2373.4	2365.8
17.5°	3106.3	3115.1	2953.4	2714.2	2493.6	2361.4	2305.7	2276.2	2266.4	2260.9
20°	3122.7	3061.5	2819.1	2525.3	2316.6	2223.8	2210.7	2203.0	2200.9	2197.6
22.5°	3204.6	3045.2	2695.6	2346.1	2161.5	2121.1	2132.1	2131.0	2128.8	2126.6
25°	3351.0	3059.4	2575.5	2175.7	2031.6	2022.8	2042.5	2042.5	2033.7	2033.7
27.5°	3544.3	3088.9	2441.2	2014.1	1913.6	1914.7	1930.0	1925.6	1915.8	1909.2
30°	3780.2	3107.4	2283.9	1868.8	1803.3	1798.9	1803.3	1784.7	1755.2	1753.0
32.5°	4021.6	3084.5	2101.5	1739.9	1686.4	1676.6	1673.3	1647.1	1613.2	1603.4
35°	4240.1	3000.4	1915.8	1637.3	1575.0	1553.2	1568.5	1559.7	1529.1	1521.5
37.5°	4399.5	2844.2	1748.7	1546.6	1495.3	1489.8	1499.6	1502.9	1466.9	1459.2
40°	4506.6	2632.3	1605.6	1470.2	1480.0	1459.2	1426.5	1403.5	1392.6	1389.3
42.5°	4592.9	2411.7	1485.4	1434.1	1483.3	1423.2	1352.2	1315.1	1334.7	1343.5
45°	4692.3	2196.5	1385.0	1389.3	1466.9	1381.7	1300.9	1264.8	1272.5	1274.6
47.5°	4828.8	1934.4	1276.8	1317.2	1412.3	1353.3	1269.2	1217.8	1181.8	1165.4
50°	5017.7	1624.2	1164.3	1236.4	1358.7	1332.5	1220.0	1165.4	1098.8	1083.5
52.5°	5148.8	1334.7	1071.5	1168.7	1310.7	1291.0	1180.7	1109.7	1039.8	1026.7
55°	5077.8	1108.6	990.7	1093.3	1247.3	1239.7	1147.9	1052.9	998.3	987.4
57.5°	4722.8	965.5	928.4	1022.3	1169.8	1196.0	1104.3	1004.9	965.5	957.9
60°	4045.7	876.0	889.1	974.3	1106.4	1152.3	1060.6	978.6	952.4	947.0
62.5°	3139.1	815.9	859.6	939.3	1057.3	1121.7	1036.5	975.4	965.5	959.0
65°	2248.9	767.8	827.9	904.4	1012.5	1093.3	1027.8	971.0	973.2	967.7
67.5°	1528.0	725.2	789.7	865.1	968.8	1068.2	1015.8	955.7	983.0	976.5
70°	1069.3	683.7	744.9	814.8	914.2	1033.3	993.9	932.8	930.6	904.4
72.5°	834.5	629.1	683.7	744.9	844.3	984.1	950.2	881.4	845.4	818.1
73°	796.2	616.0	668.5	729.6	829.0	972.1	938.2	867.2	826.8	801.7
75°	658.6	559.2	607.3	661.9	763.5	915.3	879.3	802.8	751.5	736.2
77.5°	517.7	478.4	524.3	573.4	672.8	832.3	791.9	718.7	690.3	677.2
80°	383.4	396.5	436.9	480.6	583.3	743.8	707.8	634.6	761.3	729.6
82.5°	269.8	300.4	337.5	376.8	489.3	657.5	613.8	538.5	557.0	463.1
85°	159.5	196.6	231.6	265.4	352.8	545.0	506.8	429.2	351.7	335.3
87.5°	92.8	109.2	119.1	154.0	242.5	410.7	357.2	317.8	182.4	123.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)