

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: P302817

Luminaire Tested: **GLNA-AF-10-LED-E1-T4W-7030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P302817  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P191569)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GLNA-AF-10-LED-E1-T4W-7030  
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE  
(10) 70 CRI, 3000K CCT 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND Type IV Wide OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

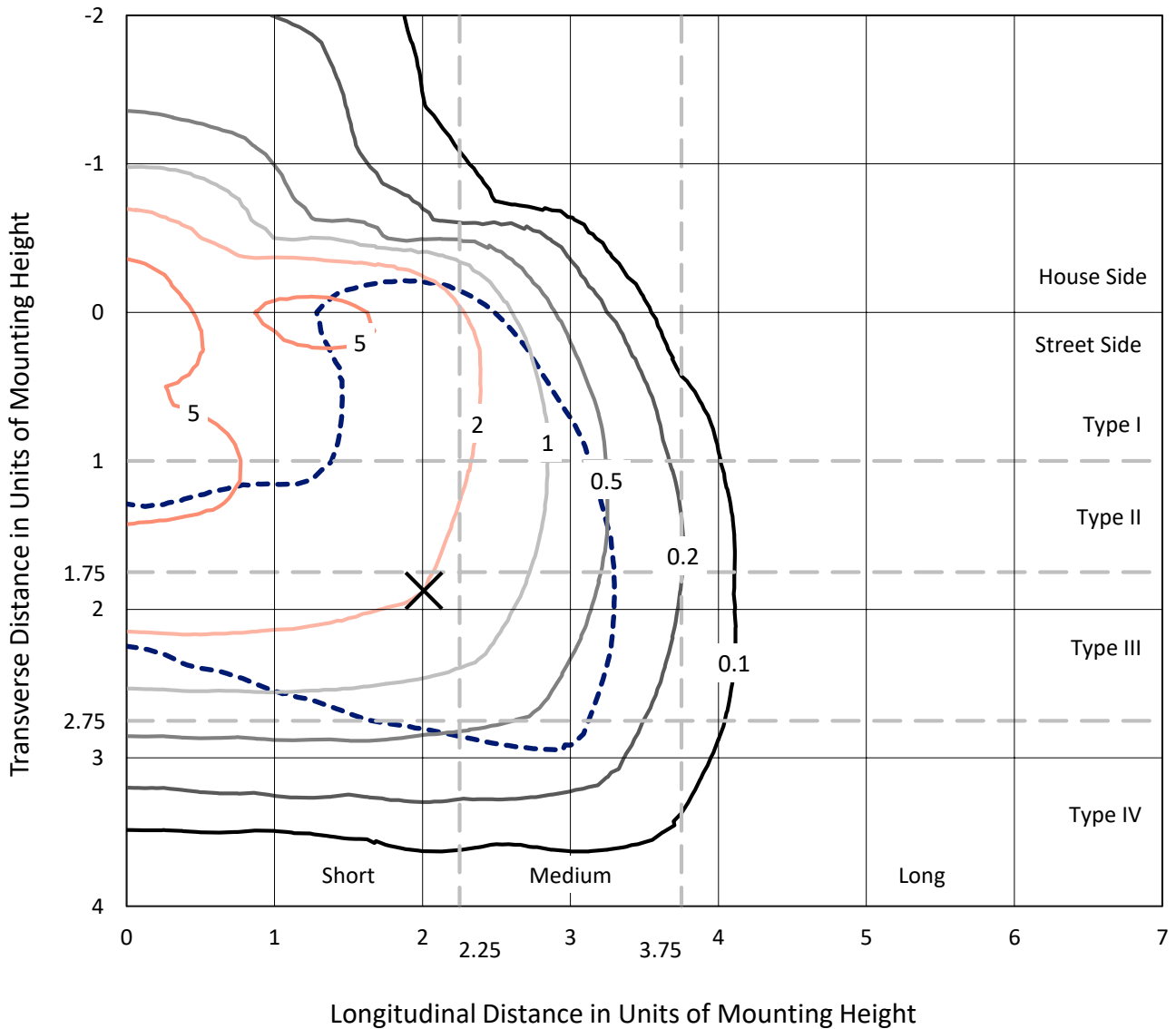
Lumens per Lamp: N/A  
Luminaire Lumens: 56398.8 lumens  
Efficiency: N/A  
Efficacy: 101.1 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Semi-Cutoff  
BUG Rating: B4 - U0 - G5  
  
Input Watts (W): 558  
Input Voltage (V): NR  
Input Current (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

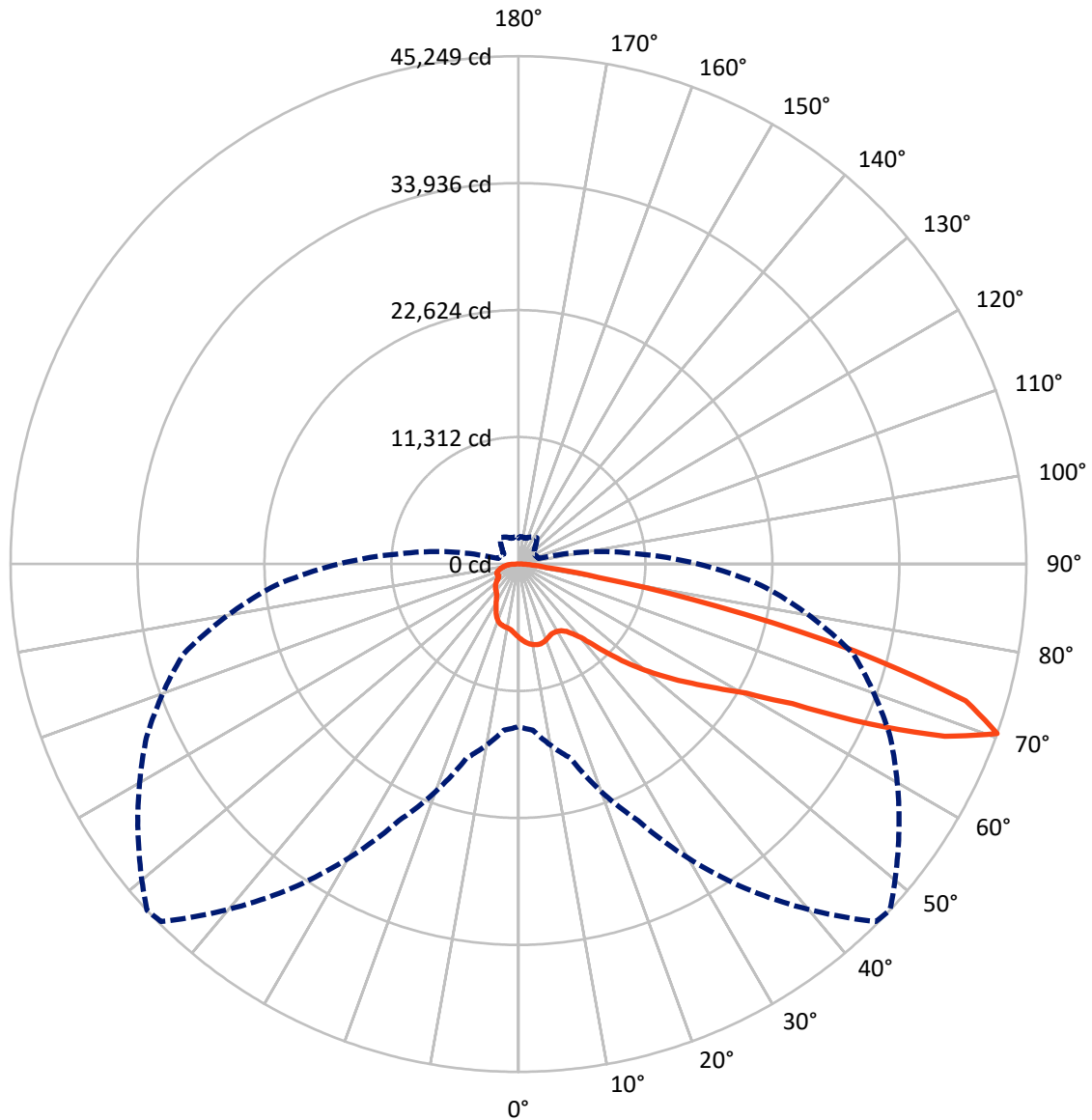
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.4 fc  
 Type IV - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	11765.9	0.0	11765.9
	% Fixture	20.9	0.0	20.9
<b>Street Side</b>	Lumens	44632.9	0.0	44632.9
	% Fixture	79.1	0.0	79.1
<b>Total</b>	Lumens	56398.8	0.0	56398.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	627.0	1.1
10°-20°	1839.5	3.3
20°-30°	2716.5	4.8
30°-40°	3948.4	7.0
40°-50°	7105.7	12.6
50°-60°	12309.9	21.8
60°-70°	17569.8	31.2
70°-80°	9019.3	16.0
80°-90°	1262.7	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°	56398.8	100.0
0°-180°	56398.8	100.0

**Coefficient of Utilization**



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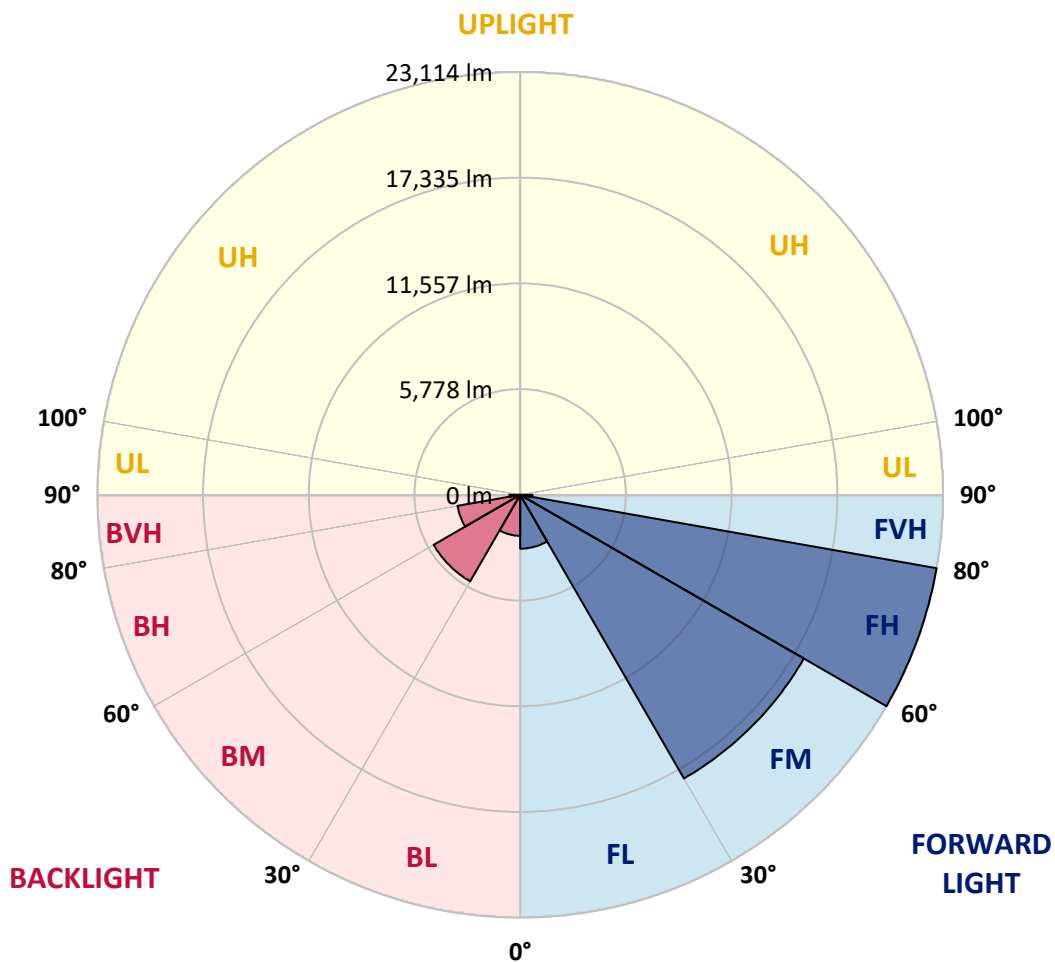
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2942.8	5.2			
FM	(30°-60°)	17902.5	31.7			
FH	(60°-80°)	23113.8	41.0			G5
FVH	(80°-90°)	673.8	1.2			G4/750
BL	(0°-30°)	2240.3	4.0	B3/2500		
BM	(30°-60°)	5461.4	9.7	B4/8500		
BH	(60°-80°)	3475.3	6.2	B4/5000		G4/5000
BVH	(80°-90°)	588.9	1.0			G4/750
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G5**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	6543.9	6543.9	6543.9	6543.9	6543.9	6543.9	6543.9	6543.9	6543.9	6543.9	6543.9
2.5°	6928.4	6914.8	6909.3	6898.4	6884.7	6815.4	6801.8	6752.6	6684.2	6612.2	6538.4
5°	7384.1	7381.3	7350.4	7295.7	7208.2	7056.9	7021.4	6901.1	6738.9	6582.1	6426.3
7.5°	7784.1	7759.5	7702.1	7591.8	7438.7	7232.8	7183.6	7015.9	6793.6	6579.4	6368.0
10°	8077.5	8063.9	7938.1	7786.9	7586.4	7358.6	7301.1	7114.3	6870.1	6598.5	6335.2
12.5°	8245.2	8217.9	8072.1	7891.6	7652.9	7430.5	7372.2	7183.6	6909.3	6598.5	6288.7
15°	8234.3	8215.2	8069.3	7871.6	7631.0	7436.0	7384.1	7194.5	6901.1	6571.2	6228.6
17.5°	8014.7	8022.9	7899.9	7704.8	7507.1	7358.6	7312.1	7137.1	6845.5	6516.5	6157.5
20°	7631.0	7669.3	7586.4	7414.1	7303.9	7202.7	7172.7	7024.1	6760.8	6437.3	6080.0
22.5°	7246.5	7282.0	7249.2	7103.4	7087.0	7026.8	7010.4	6903.8	6686.9	6388.0	6033.6
25°	6964.0	6996.8	6991.3	6864.6	6914.8	6912.0	6898.4	6845.5	6670.5	6388.0	6041.8
27.5°	6887.4	6898.4	6887.4	6771.7	6840.0	6895.6	6884.7	6875.6	6719.7	6467.3	6146.6
30°	7150.8	7134.4	7048.7	6815.4	6879.2	6955.8	6944.8	6950.3	6867.4	6676.0	6379.8
32.5°	8201.5	8126.8	7857.9	7202.7	7035.0	7076.1	7081.5	7172.7	7186.3	6996.8	6741.6
35°	9773.4	9691.4	9342.4	8239.8	7520.8	7378.6	7378.6	7515.3	7597.3	7457.9	7303.9
37.5°	11439.2	11348.1	11162.2	9677.7	8541.4	7902.6	7888.9	7984.6	8102.2	8135.9	8174.1
40°	13332.0	13236.3	13288.2	11290.7	9965.7	8810.2	8615.2	8546.9	8864.9	9076.3	9384.3
42.5°	15404.2	15359.6	15378.7	13087.7	11586.9	10168.9	9891.9	9537.4	9922.0	10297.4	10942.6
45°	17321.5	17359.8	17340.7	15011.4	13393.0	11825.6	11532.2	10846.0	11222.4	11866.6	12918.2
47.5°	19001.0	18841.5	19088.5	17112.8	15415.1	13681.0	13318.3	12399.7	12780.6	13576.2	15354.1
50°	21039.5	21017.7	20655.9	19917.8	17859.2	15543.6	15068.9	14004.5	14596.8	15703.1	18425.1
52.5°	23182.9	22784.6	22452.9	22098.4	20452.7	17453.7	16871.4	15603.8	16731.9	18122.5	22167.7
55°	23621.2	23443.5	23854.5	24450.4	22952.3	19437.5	18759.5	17609.5	19135.9	20889.2	26483.5
57.5°	24559.8	24557.1	25408.2	26469.8	25525.7	21541.6	20858.2	20032.6	21837.8	24057.7	31065.4
60°	25194.0	25371.7	26952.8	29013.2	28052.7	23972.9	23344.2	22828.4	24911.5	27599.8	35334.7
62.5°	25525.7	25767.2	27924.2	30044.8	31624.9	28019.9	27392.0	26648.4	28977.7	31485.5	37831.6
65°	24146.1	24619.9	27773.0	30936.9	34753.3	34580.2	34297.7	32991.8	34061.7	34555.6	36929.5
67.5°	20326.0	20811.7	24483.2	30104.9	36986.9	40908.1	40968.2	38737.4	37190.1	34818.9	31049.0
70°	14482.0	14862.9	17901.1	25240.5	35285.5	45042.5	45248.5	41384.7	36566.8	30878.6	21692.9
72.5°	6875.6	7108.9	9984.8	16427.6	28000.8	41269.9	41668.1	38004.8	31092.7	22861.2	11833.8
75°	2527.0	2598.0	3374.5	6988.6	16240.8	30434.8	30904.1	27243.5	20611.2	11381.8	4508.1
77.5°	1514.5	1561.0	1893.6	2949.8	6388.0	17396.3	18089.7	14816.4	9008.0	4236.5	2217.1
80°	1058.9	1091.7	1357.8	1835.3	3018.1	6629.5	7246.5	6047.2	3588.6	2681.0	1613.0
82.5°	716.3	732.7	955.0	1240.2	2005.7	2367.5	2554.3	2689.2	2420.3	1994.8	1023.4
85°	469.3	485.7	647.9	817.4	1275.8	1223.8	1251.2	1582.9	1767.0	1355.1	567.7
87.5°	268.8	279.8	390.0	436.5	626.0	518.5	524.0	833.8	1130.9	914.0	345.4
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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6543.9	6543.9	6543.9	6543.9	6543.9	6543.9	6543.9	6543.9	6543.9	6543.9	6543.9
2.5°	6519.3	6483.7	6404.4	6354.3	6307.9	6296.9	6277.8	6275.0	6272.3	6272.3	6264.1
5°	6373.5	6313.3	6190.3	6121.0	6063.6	6058.2	6055.4	6069.1	6074.6	6080.0	6071.8
7.5°	6280.5	6198.5	6044.5	5946.1	5877.7	5860.4	5888.7	5951.5	5992.5	6009.0	6000.8
10°	6223.1	6121.0	5943.3	5835.8	5778.4	5770.2	5805.7	5880.5	5965.2	5998.0	5995.3
12.5°	6157.5	6041.8	5852.2	5740.1	5707.3	5723.7	5770.2	5838.5	5926.9	5978.9	5981.6
15°	6091.0	5957.0	5762.0	5663.6	5649.9	5671.8	5715.5	5767.5	5835.8	5888.7	5894.1
17.5°	6011.7	5871.4	5677.2	5575.2	5564.3	5575.2	5577.9	5605.3	5649.9	5699.1	5712.8
20°	5926.9	5783.9	5580.7	5479.5	5430.3	5386.6	5336.4	5341.9	5355.6	5405.7	5416.6
22.5°	5865.9	5723.7	5506.8	5366.5	5235.3	5103.1	5004.7	4991.1	4996.5	5037.5	5051.2
25°	5871.4	5721.0	5487.7	5246.2	4958.3	4746.8	4614.7	4592.8	4590.1	4620.2	4640.2
27.5°	5978.9	5827.6	5558.8	5122.3	4656.6	4343.1	4203.7	4187.3	4165.4	4173.6	4195.5
30°	6217.6	6077.3	5731.9	4996.5	4329.5	3948.6	3802.8	3786.4	3756.3	3742.6	3759.0
32.5°	6606.7	6491.9	5984.3	4875.3	4003.2	3610.5	3462.8	3427.3	3408.2	3391.8	3405.4
35°	7254.7	7205.5	6321.5	4744.1	3715.3	3349.8	3215.9	3161.2	3133.9	3163.9	3185.8
37.5°	8269.8	8297.2	6763.5	4538.2	3492.9	3177.6	3064.6	3001.7	2960.7	2985.3	3009.9
40°	9707.8	9727.0	7251.9	4247.5	3300.6	3075.6	2955.3	2897.9	2839.5	2795.8	2793.1
42.5°	11595.1	11401.0	7732.2	3932.2	3078.3	3012.7	2878.7	2806.7	2719.2	2598.0	2573.4
45°	13834.1	13151.5	8096.7	3569.5	2828.6	2936.1	2793.1	2694.6	2557.0	2425.8	2412.1
47.5°	16413.9	15030.6	8275.3	3194.0	2595.3	2823.1	2689.2	2532.4	2359.3	2293.7	2285.5
50°	19563.3	17261.4	8360.0	2828.6	2393.0	2675.5	2537.9	2353.8	2208.9	2195.3	2187.1
52.5°	23150.1	19945.1	8388.3	2529.7	2225.3	2483.2	2414.9	2236.3	2120.5	2132.4	2132.4
55°	26903.6	22716.3	8014.7	2312.8	2071.3	2285.5	2332.0	2189.8	2093.2	2137.9	2154.3
57.5°	30349.1	25172.2	6840.0	2146.1	1926.4	2135.1	2301.9	2233.5	2167.9	2345.6	2356.6
60°	32994.6	26622.9	5108.6	1994.8	1818.9	2082.3	2382.1	2401.2	2417.6	2842.3	2900.6
62.5°	33548.6	26140.9	3512.1	1877.2	1769.7	2126.9	2527.0	2529.7	2510.6	2806.7	2842.3
65°	31005.2	23086.3	2554.3	1810.7	1728.7	2206.2	2650.9	2592.6	2466.8	2691.9	2625.4
67.5°	24622.7	17393.5	2126.9	1761.5	1668.5	2200.7	2782.1	2650.9	2442.2	2637.2	2529.7
70°	15982.9	10517.0	1893.6	1720.5	1596.6	2095.9	2858.7	2645.4	2370.2	2453.2	2326.5
72.5°	7797.8	4703.1	1736.9	1660.3	1522.7	1951.0	2855.9	2595.3	2296.4	2290.9	2222.6
75°	3051.0	2154.3	1593.8	1569.2	1397.0	1786.1	2779.4	2524.2	2208.9	2120.5	2095.9
77.5°	1786.1	1536.4	1413.4	1435.3	1245.7	1621.2	2667.3	2401.2	2087.7	1983.8	1956.5
80°	1300.4	1150.0	1204.7	1240.2	1064.4	1457.1	2516.0	2249.9	1953.8	2005.7	1967.4
82.5°	833.8	740.9	976.9	1012.4	886.7	1289.5	2351.1	2090.5	1764.2	1602.0	1563.7
85°	425.6	469.3	727.2	770.9	683.5	1058.9	2151.5	1880.0	1550.1	1333.2	1355.1
87.5°	238.8	320.8	463.8	518.5	483.0	814.7	1745.1	1550.1	1264.9	1028.8	905.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)