

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: P456045

Luminaire Tested: **GALN-SA7B-730-U-T4FT**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P456045  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-28)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA7B-730-U-T4FT  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 36015 lumens  
Efficiency: N/A  
Efficacy: 125.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

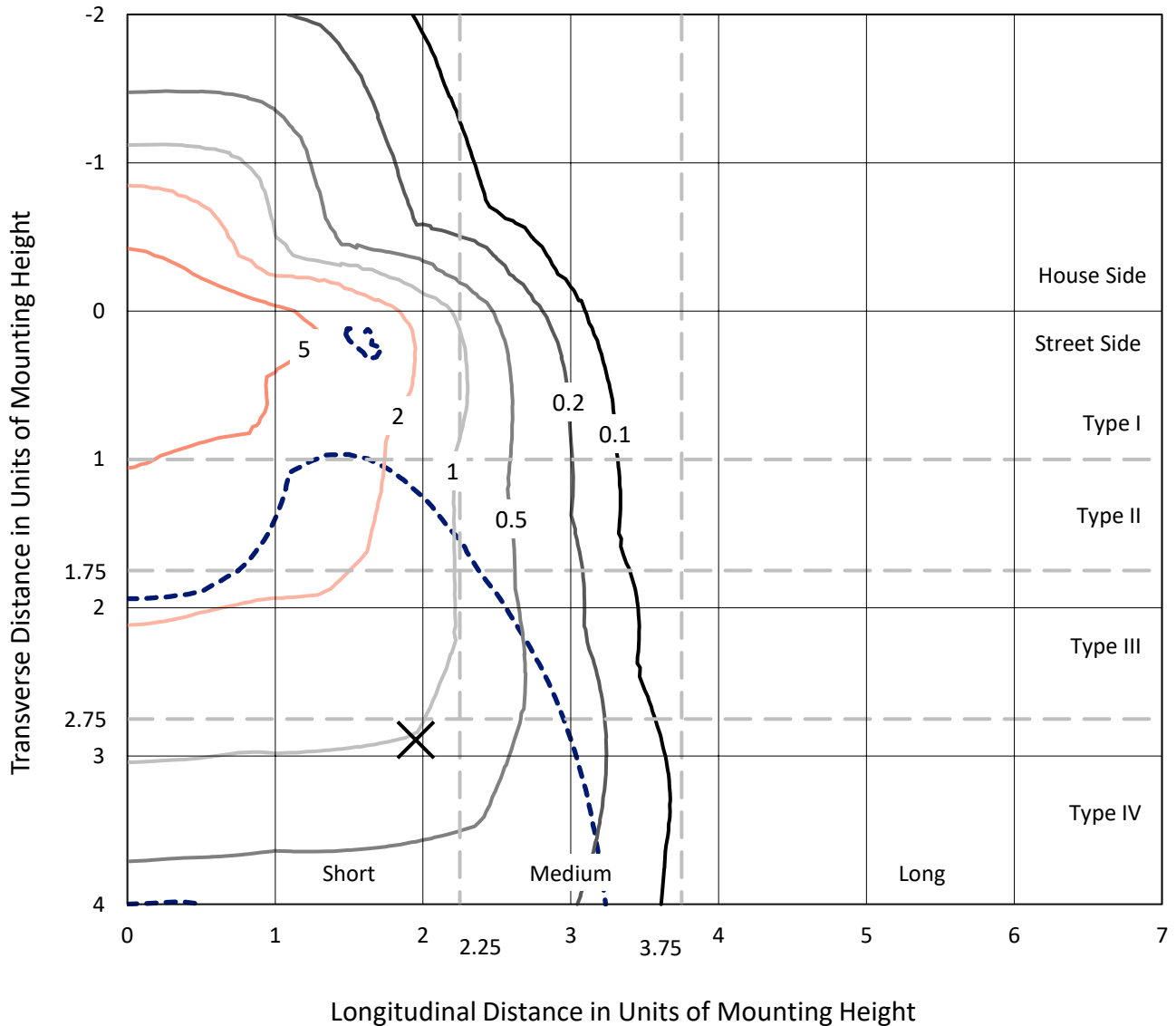
Input Watts (W): 286  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P456045  
 CATALOG NUMBER: GALN-SA7B-730-U-T4FT

### Iso-Footcandle Lines of Horizontal Illumination

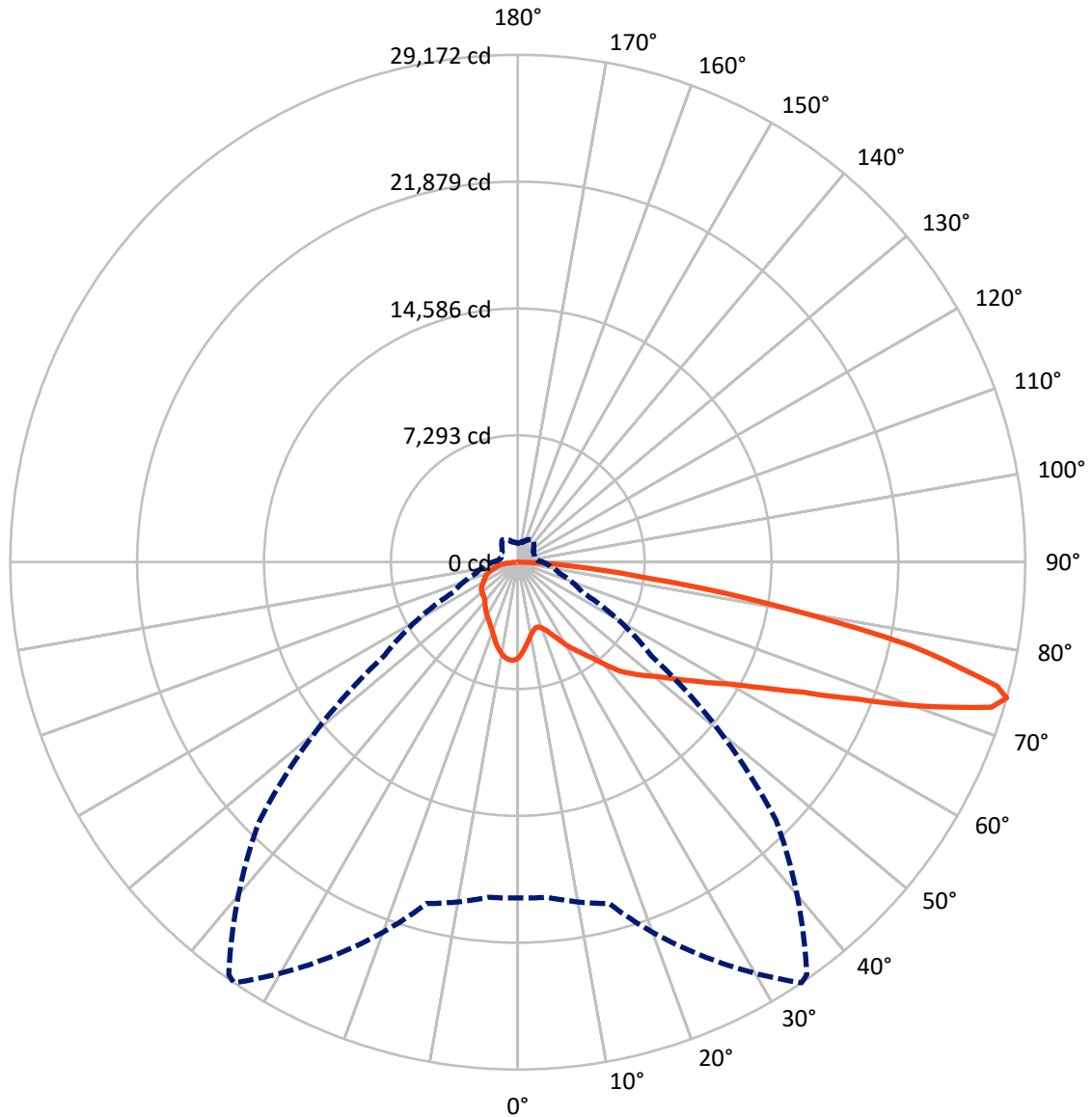
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.8 fc  
 Type IV - Short - N/A

REPORT NUMBER: P456045  
CATALOG NUMBER: GALN-SA7B-730-U-T4FT

### Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral    - - - Horizontal Cone Through 74-Deg Vertical

REPORT NUMBER: P456045

CATALOG NUMBER: GALN-SA7B-730-U-T4FT

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7664.3	0.0	7664.3
	% Fixture	21.3	0.0	21.3
<b>Street Side</b>	Lumens	28350.7	0.0	28350.7
	% Fixture	78.7	0.0	78.7
<b>Total</b>	Lumens	36015.0	0.0	36015.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	500.1	1.4
10°-20°	1369.0	3.8
20°-30°	2257.1	6.3
30°-40°	3380.9	9.4
40°-50°	4914.8	13.6
50°-60°	6864.9	19.1
60°-70°	8594.5	23.9
70°-80°	7106.9	19.7
80°-90°	1026.9	2.9
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°	36015.0	100.0
0°-180°	36015.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P456045

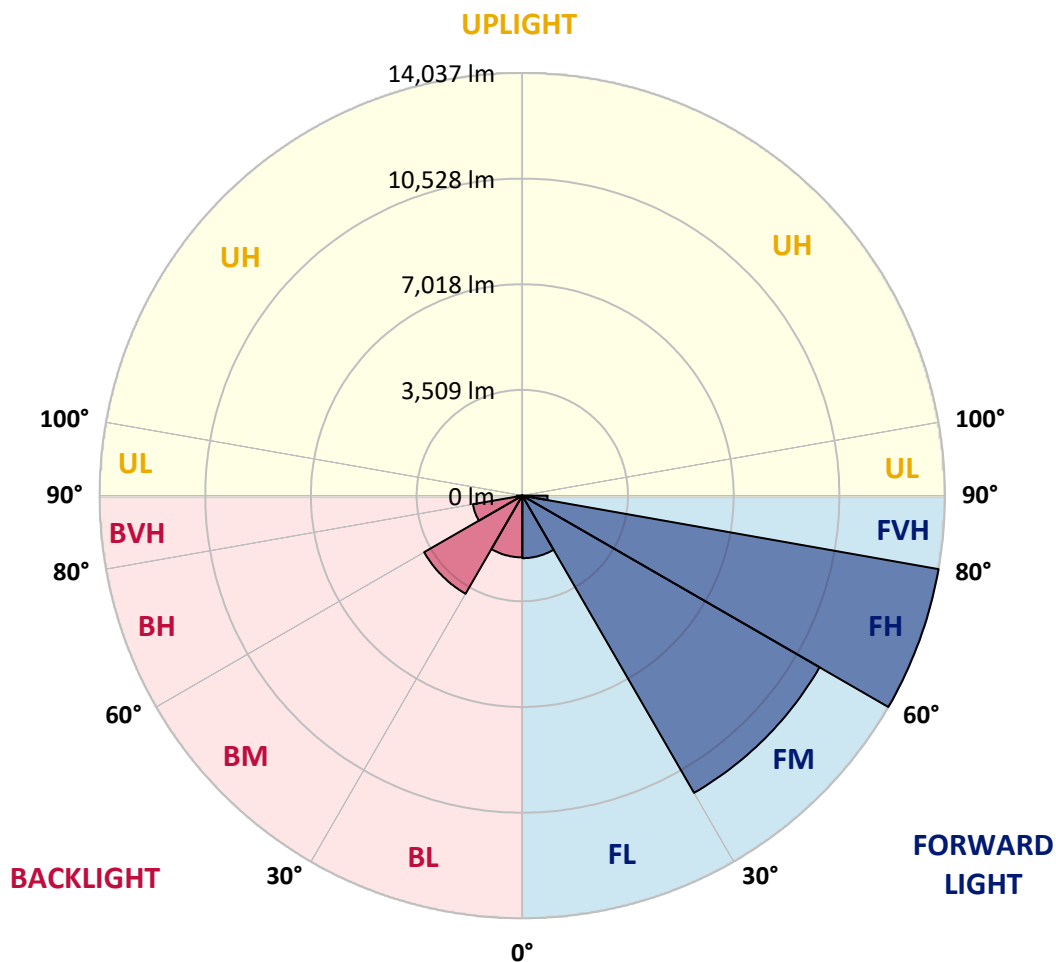
CATALOG NUMBER: GALN-SA7B-730-U-T4FT

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2076.1	5.8			
FM (30°-60°)	11396.6	31.6			
FH (60°-80°)	14036.7	39.0			G5
FVH (80°-90°)	841.3	2.3			G5
BL (0°-30°)	2050.1	5.7	B3/2500		
BM (30°-60°)	3763.9	10.5	B3/5000		
BH (60°-80°)	1664.6	4.6	B3/2500		G3/2500
BVH (80°-90°)	185.6	0.5			G2/225
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





REPORT NUMBER: P456045

CATALOG NUMBER: GALN-SA7B-730-U-T4FT

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	5498.8	5498.8	5498.8	5498.8	5498.8	5498.8	5498.8	5498.8	5498.8	5498.8	5498.8
2.5°	5081.8	5107.7	5121.7	5171.6	5183.5	5199.5	5241.4	5297.3	5369.1	5432.9	5488.8
5°	4658.8	4698.7	4722.6	4766.5	4852.3	4860.3	4972.0	5099.7	5245.4	5381.1	5492.8
7.5°	4257.8	4301.7	4321.6	4401.4	4515.1	4533.1	4696.7	4898.2	5141.6	5347.1	5518.7
10°	3956.5	3978.4	4022.3	4082.2	4217.9	4229.8	4443.3	4712.7	5027.9	5331.2	5562.6
12.5°	3792.9	3804.9	3814.8	3878.7	4012.4	4030.3	4253.8	4559.0	4938.1	5343.2	5634.5
15°	3816.8	3820.8	3776.9	3788.9	3896.6	3922.6	4144.0	4457.3	4882.3	5373.1	5742.2
17.5°	4018.3	4004.4	3896.6	3840.8	3916.6	3928.6	4122.1	4417.4	4856.3	5428.9	5853.9
20°	4335.6	4315.6	4130.1	4006.4	4050.3	4060.2	4193.9	4447.3	4882.3	5520.7	6027.5
22.5°	4730.6	4722.6	4441.3	4291.7	4289.7	4289.7	4359.5	4555.0	4960.1	5646.4	6209.1
25°	5283.3	5241.4	4874.3	4680.7	4626.9	4622.9	4614.9	4732.6	5059.8	5780.1	6424.6
27.5°	5849.9	5778.1	5450.9	5153.6	5037.9	5023.9	4972.0	4984.0	5187.5	5931.7	6670.0
30°	6358.7	6312.8	6005.6	5676.4	5538.7	5506.8	5363.1	5297.3	5401.0	6205.1	7061.0
32.5°	6747.8	6719.8	6480.4	6181.1	5977.6	5971.6	5762.1	5708.3	5734.2	6536.3	7507.9
35°	7063.0	7073.0	6951.3	6691.9	6458.5	6424.6	6284.9	6217.1	6141.2	7015.1	8070.6
37.5°	7494.0	7515.9	7507.9	7284.5	6999.2	7007.2	6975.2	6863.5	6662.0	7549.8	8695.1
40°	7968.8	7984.8	7982.8	7897.0	7747.4	7755.4	7743.4	7615.7	7314.4	8230.2	9389.4
42.5°	8625.3	8549.4	8351.9	8437.7	8525.5	8563.4	8645.2	8523.5	8110.5	8956.5	10041.9
45°	9359.5	9215.8	8768.9	8808.8	9134.0	9205.9	9656.8	9489.2	8974.4	9790.5	10810.0
47.5°	9822.4	9680.7	9303.6	9295.6	9726.6	9796.4	10594.5	10532.7	9760.5	10690.3	11747.8
50°	10235.4	10215.4	9790.5	9892.2	10313.2	10417.0	11616.1	11558.2	10544.6	11751.7	12769.3
52.5°	10847.9	10686.3	10347.1	10556.6	11113.3	11249.0	12629.6	12460.0	11264.9	12689.5	13760.9
55°	11123.3	11085.3	11065.4	11247.0	12011.1	12108.9	13615.3	13226.2	11879.4	13483.6	14515.1
57.5°	11859.5	11789.7	11987.2	12110.9	13068.6	13218.2	14644.8	14026.3	12418.1	14114.1	14882.2
60°	12813.2	12775.3	12956.8	13180.3	14249.7	14477.2	15818.0	14708.6	12851.1	14431.3	14680.7
62.5°	14237.8	14233.8	14199.9	14678.7	15923.7	16133.2	17164.7	15373.0	12918.9	14193.9	13639.2
65°	16280.9	16209.0	15913.7	16436.5	18006.7	18252.1	18567.4	15744.1	12509.9	12974.8	11484.4
67.5°	18417.7	18413.7	18174.3	18852.7	20997.5	21250.9	20321.1	15662.3	11374.6	10510.7	8156.4
70°	20189.5	20103.7	20408.9	22216.6	24818.3	25111.6	21855.4	14698.7	9060.2	6941.3	4846.3
72.5°	20614.4	20618.4	21252.9	24810.3	28487.5	28533.4	22408.1	11913.4	6063.4	3828.8	2424.2
74°	19305.6	19339.5	20323.1	24940.0	29171.9	28964.4	20995.5	9363.5	4100.1	2500.0	1747.8
75°	17621.6	17408.1	18830.7	24076.1	28461.6	28238.1	19341.5	7513.9	3128.5	1997.2	1530.3
77.5°	9421.3	9638.8	11833.5	17966.8	23122.4	22865.0	13114.5	3603.3	1689.9	1390.7	1101.4
80°	3353.9	3699.1	5199.5	9401.4	14824.4	14904.2	6259.0	1652.0	1189.1	1025.5	778.1
82.5°	1368.7	1406.6	2232.6	4172.0	7527.9	7599.7	2555.9	981.6	850.0	706.3	464.9
85°	534.7	550.7	987.6	1875.5	3212.3	3421.8	883.9	518.8	522.7	405.0	237.4
87.5°	179.6	203.5	405.0	624.5	1091.4	1069.4	257.4	153.6	187.5	175.6	73.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P456045  
 CATALOG NUMBER: GALN-SA7B-730-U-T4FT

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5498.8	5498.8	5498.8	5498.8	5498.8	5498.8	5498.8	5498.8	5498.8	5498.8	5498.8
2.5°	5516.7	5554.6	5580.6	5608.5	5634.5	5642.4	5636.4	5654.4	5656.4	5658.4	5660.4
5°	5548.7	5600.5	5650.4	5678.3	5690.3	5680.3	5646.4	5628.5	5612.5	5600.5	5604.5
7.5°	5592.6	5666.4	5712.3	5724.2	5692.3	5646.4	5562.6	5496.8	5454.9	5427.0	5425.0
10°	5660.4	5732.2	5770.1	5736.2	5648.4	5536.7	5405.0	5281.3	5187.5	5159.6	5157.6
12.5°	5746.2	5828.0	5826.0	5726.2	5572.6	5373.1	5159.6	5015.9	4888.2	4824.4	4850.3
15°	5857.9	5919.8	5861.9	5682.3	5438.9	5165.6	4902.2	4706.7	4563.0	4495.2	4499.2
17.5°	5987.6	6041.5	5887.8	5604.5	5251.4	4900.2	4595.0	4409.4	4295.7	4245.8	4241.8
20°	6149.2	6165.2	5887.8	5468.9	5010.0	4591.0	4299.7	4170.0	4106.1	4080.2	4088.2
22.5°	6322.8	6290.9	5855.9	5277.3	4692.7	4267.7	4072.2	4014.3	3982.4	3978.4	3982.4
25°	6518.3	6428.5	5790.1	5017.9	4361.5	3988.4	3874.7	3884.7	3890.6	3890.6	3904.6
27.5°	6757.8	6578.2	5680.3	4690.7	3974.4	3729.0	3697.1	3766.9	3798.9	3804.9	3814.8
30°	7073.0	6741.8	5498.8	4281.7	3645.2	3495.6	3551.5	3645.2	3681.1	3703.1	3699.1
32.5°	7448.1	6921.4	5253.4	3872.7	3379.9	3332.0	3399.8	3495.6	3535.5	3547.5	3531.5
35°	7889.0	7124.9	4930.1	3489.6	3148.4	3176.4	3256.2	3286.1	3322.0	3322.0	3330.0
37.5°	8363.9	7288.5	4535.1	3138.5	2968.9	3070.6	3128.5	3100.5	3084.6	3064.6	3074.6
40°	8846.7	7410.2	4022.3	2791.3	2789.3	2960.9	2976.8	2897.0	2833.2	2813.2	2803.3
42.5°	9267.7	7486.0	3559.4	2521.9	2619.7	2853.1	2865.1	2737.4	2635.7	2575.8	2555.9
45°	9764.5	7573.8	3106.5	2298.5	2462.1	2767.3	2797.3	2625.7	2476.0	2350.3	2318.4
47.5°	10444.9	7773.3	2749.4	2124.9	2348.4	2713.5	2755.4	2533.9	2336.4	2172.8	2146.8
50°	11213.0	8046.7	2472.1	2007.2	2260.6	2665.6	2717.5	2440.1	2206.7	2025.1	2005.2
52.5°	11917.3	8194.3	2232.6	1901.4	2174.8	2577.8	2667.6	2372.3	2079.0	1877.5	1859.5
55°	12302.4	7954.9	1997.2	1797.7	2057.1	2464.1	2597.8	2278.5	1955.3	1799.7	1773.7
57.5°	12354.3	7460.1	1783.7	1685.9	1933.4	2324.4	2468.1	2164.8	1875.5	1745.8	1723.9
60°	11953.3	6721.8	1618.1	1594.2	1807.7	2166.8	2322.4	2065.0	1793.7	1685.9	1664.0
62.5°	10955.7	5919.8	1502.4	1510.4	1680.0	2001.2	2214.7	1969.3	1715.9	1620.1	1600.2
65°	9239.8	4886.3	1390.7	1424.6	1566.2	1871.5	2116.9	1889.5	1638.1	1570.2	1552.3
67.5°	6418.6	3527.5	1298.9	1334.8	1458.5	1739.8	2003.2	1803.7	1550.3	1514.4	1486.4
70°	3553.5	2170.8	1191.1	1233.0	1346.8	1592.2	1875.5	1674.0	1422.6	1406.6	1366.7
72.5°	1867.5	1382.7	1069.4	1115.3	1195.1	1402.6	1680.0	1532.3	1296.9	1229.0	1177.2
74°	1458.5	1133.3	987.6	1035.5	1089.4	1290.9	1564.2	1430.6	1207.1	1127.3	1087.4
75°	1270.9	1009.6	917.8	979.6	1027.5	1215.1	1474.5	1358.7	1157.2	1081.4	1045.5
77.5°	897.8	756.2	750.2	824.0	850.0	1065.4	1328.8	1237.0	1031.5	951.7	917.8
80°	630.5	566.6	594.6	640.5	676.4	941.7	1233.0	1069.4	846.0	752.2	740.2
82.5°	411.0	371.1	425.0	466.9	478.8	694.3	995.6	812.0	616.5	500.8	464.9
85°	189.5	185.6	243.4	237.4	235.4	339.2	590.6	474.9	355.1	265.4	249.4
87.5°	47.9	45.9	59.9	49.9	59.9	51.9	53.9	14.0	2.0	0.0	0.0
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)