

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: P456269

Luminaire Tested: **GALN-SA7C-730-U-T2**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P456269  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA7C-730-U-T2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 44850 lumens  
Efficiency: N/A  
Efficacy: 119.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G5

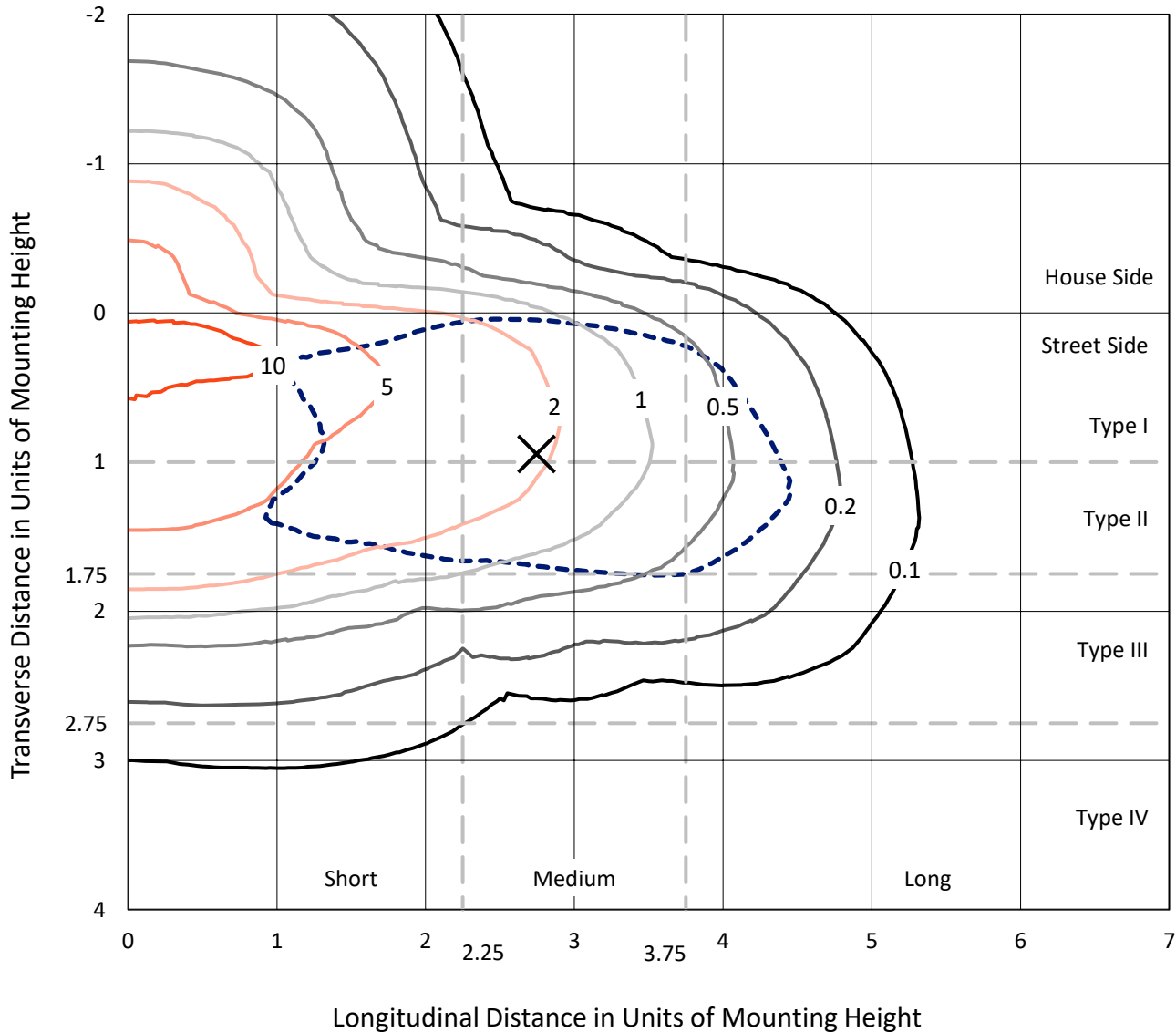
Input Watts (W): 377  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P456269  
 CATALOG NUMBER: GALN-SA7C-730-U-T2

### Iso-Footcandle Lines of Horizontal Illumination

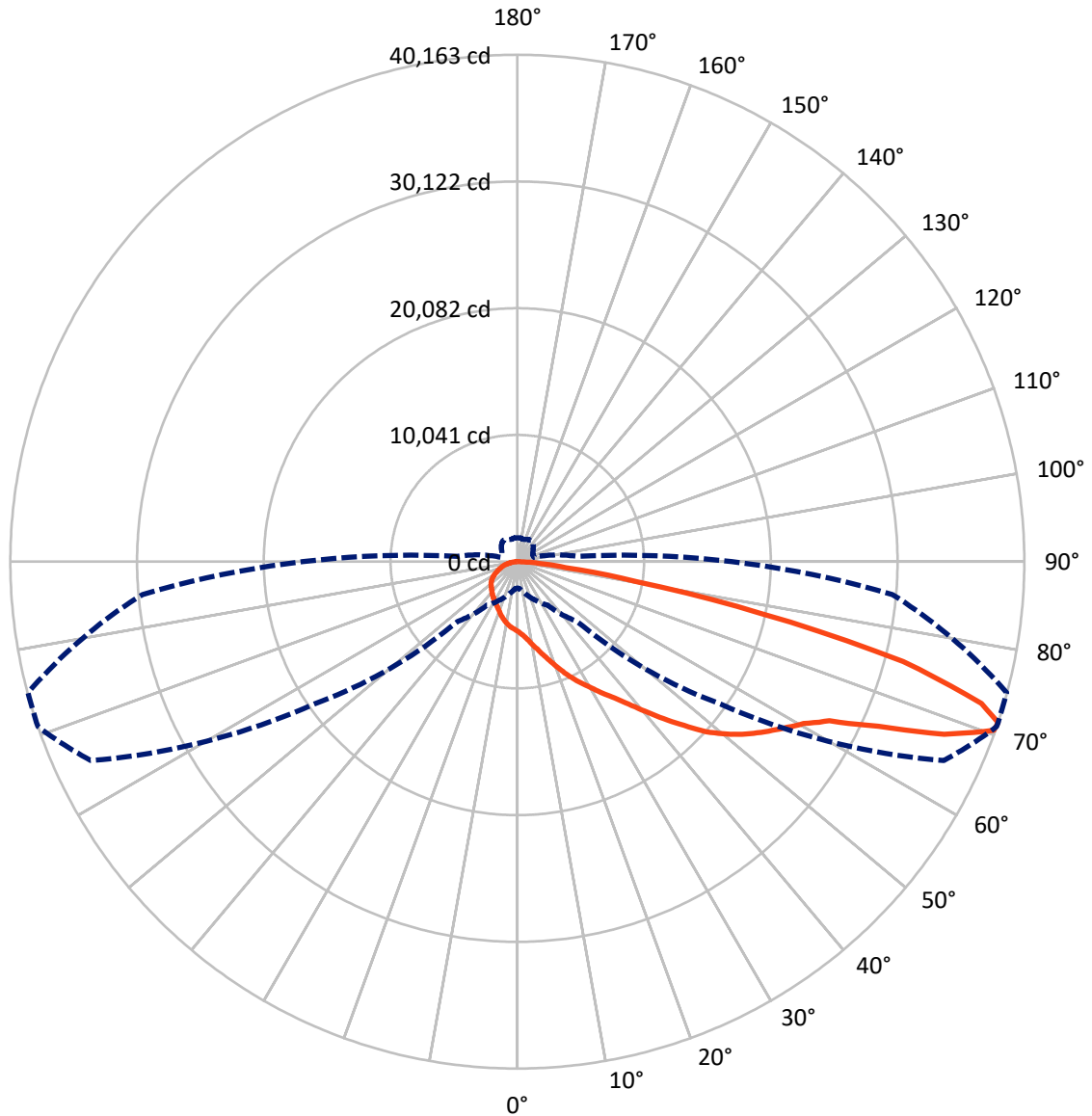
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.5 fc  
 Type II - Medium - N/A

REPORT NUMBER: P456269  
CATALOG NUMBER: GALN-SA7C-730-U-T2

### Luminous Intensity Polar Plot



— Vertical Plane Through 71-Deg Lateral      - - - Horizontal Cone Through 71-Deg Vertical

REPORT NUMBER: P456269

CATALOG NUMBER: GALN-SA7C-730-U-T2

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8066.2	0.0	8066.2
	% Fixture	18.0	0.0	18.0
<b>Street Side</b>	Lumens	36783.8	0.0	36783.8
	% Fixture	82.0	0.0	82.0
<b>Total</b>	Lumens	44850.0	0.0	44850.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	552.7	1.2
10°-20°	1795.6	4.0
20°-30°	3138.0	7.0
30°-40°	4667.4	10.4
40°-50°	6876.8	15.3
50°-60°	9627.6	21.5
60°-70°	10768.1	24.0
70°-80°	6577.6	14.7
80°-90°	846.1	1.9
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°	44850.0	100.0
0°-180°	44850.0	100.0



REPORT NUMBER: P456269

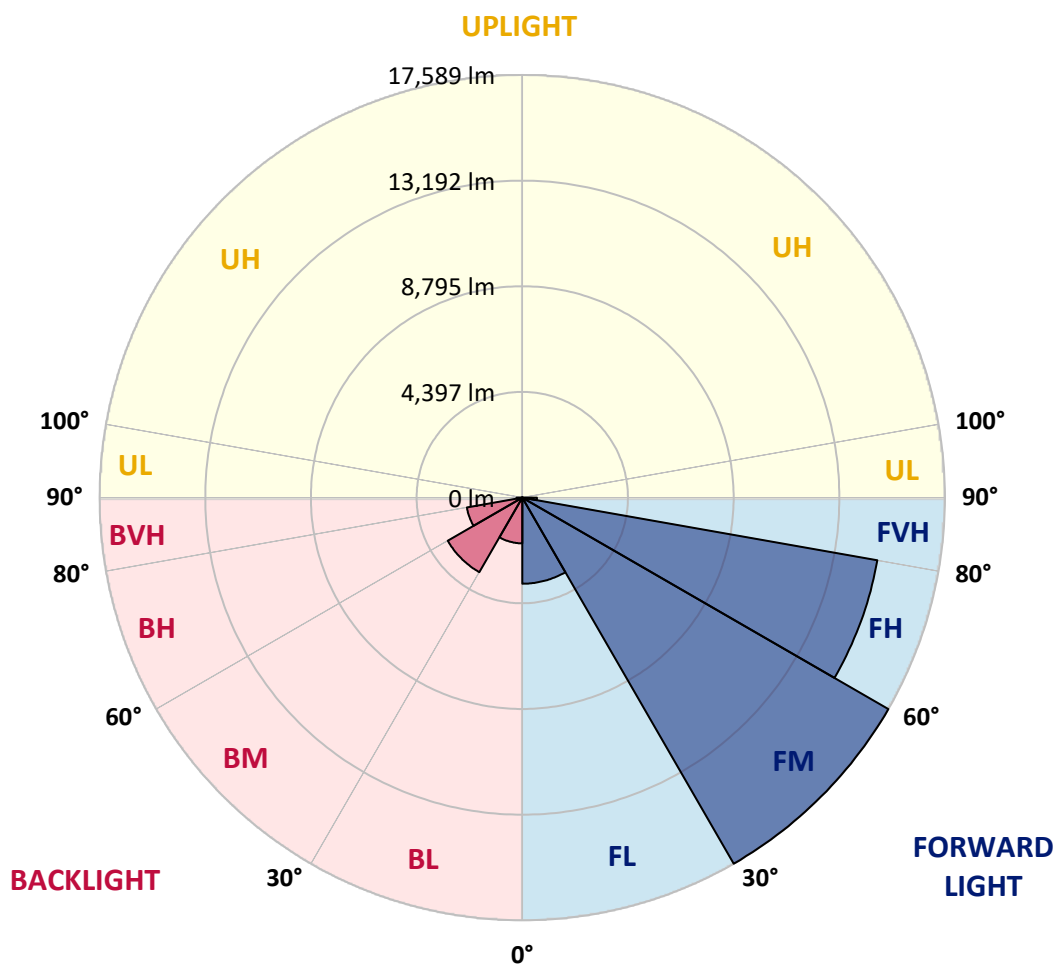
CATALOG NUMBER: GALN-SA7C-730-U-T2

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3583.5	8.0			
FM	(30°-60°)	17589.3	39.2			
FH	(60°-80°)	15002.2	33.4			G5
FVH	(80°-90°)	608.8	1.4			G4/750
BL	(0°-30°)	1902.8	4.2	B3/2500		
BM	(30°-60°)	3582.5	8.0	B3/5000		
BH	(60°-80°)	2343.6	5.2	B3/2500		G3/2500
BVH	(80°-90°)	237.3	0.5			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**

Type II Medium





REPORT NUMBER: P456269

CATALOG NUMBER: GALN-SA7C-730-U-T2

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	5504.5	5504.5	5504.5	5504.5	5504.5	5504.5	5504.5	5504.5	5504.5	5504.5	5504.5
2.5°	6110.9	6081.3	6083.7	6041.8	5987.6	5928.4	5844.6	5770.7	5711.5	5677.0	5575.9
5°	6771.5	6741.9	6704.9	6613.7	6574.3	6428.8	6244.0	6076.3	5948.2	5876.7	5674.5
7.5°	7306.4	7299.0	7289.1	7237.4	7136.3	6934.2	6776.4	6485.5	6295.7	6160.2	5815.0
10°	7636.7	7649.0	7656.4	7666.3	7624.4	7518.4	7301.5	6934.2	6692.6	6520.1	5997.5
12.5°	7804.3	7816.7	7858.6	7949.8	8006.5	7994.2	7816.7	7456.8	7124.0	6897.2	6192.2
15°	7907.9	7927.6	8001.5	8122.3	8312.1	8432.9	8346.7	8013.9	7649.0	7380.4	6423.9
17.5°	8021.3	8043.5	8124.8	8297.4	8546.3	8807.6	8901.3	8615.3	8218.5	7898.0	6682.7
20°	8085.4	8114.9	8230.8	8457.6	8748.5	9128.1	9438.7	9288.3	8854.5	8499.5	6981.0
22.5°	8188.9	8213.5	8312.1	8553.7	8901.3	9377.0	9976.1	9944.0	9561.9	9103.4	7308.9
25°	8469.9	8509.3	8558.6	8704.1	9039.3	9630.9	10422.2	10644.1	10247.2	9734.5	7609.6
27.5°	8999.9	9031.9	9029.5	9049.2	9239.0	9850.3	10809.2	11336.8	10927.6	10372.9	7900.5
30°	9603.8	9616.2	9626.0	9581.6	9623.5	10074.7	11164.2	12022.0	11612.8	11028.6	8154.4
32.5°	10338.4	10363.1	10279.3	10165.9	10131.3	10407.4	11457.5	12707.3	12423.8	11694.2	8405.8
35°	11206.1	11270.2	11100.1	10900.4	10759.9	10885.7	11852.0	13407.4	13254.6	12544.6	8738.6
37.5°	12197.1	12275.9	12118.2	11726.2	11526.6	11561.1	12367.1	14272.6	14304.7	13513.4	9234.1
40°	13008.1	13111.6	13116.5	12561.9	12258.7	12298.1	13020.4	15204.4	15571.7	14711.4	9818.3
42.5°	13543.0	13644.0	13750.0	13424.7	13106.7	13331.0	13782.1	16215.1	16996.5	16165.8	10634.2
45°	14129.7	14220.9	14280.0	14132.1	13954.6	14536.4	14701.5	17289.8	18515.0	17790.3	11526.6
47.5°	14810.0	14911.1	14967.8	14827.3	14760.7	15593.9	15692.5	18293.1	20137.0	19367.9	12512.6
50°	15717.1	15793.6	15764.0	15675.2	15660.5	16404.9	16644.0	19232.3	21475.5	21066.3	13535.6
52.5°	16846.1	16937.3	16969.4	16843.7	16787.0	16984.2	17410.6	20087.7	22693.2	22525.6	14627.6
55°	17529.0	17674.4	18162.5	18359.7	18495.3	17733.6	18236.4	21031.8	23785.3	24063.8	15801.0
57.5°	16653.9	16841.2	17933.2	18919.2	20193.7	19607.0	19407.3	22017.8	24877.3	25555.2	17206.0
60°	14519.1	14561.0	15968.6	17785.3	20349.0	22015.3	21850.2	23585.6	26060.5	27058.8	19057.3
62.5°	10072.2	10160.9	11824.8	14723.7	18431.2	22883.0	26006.3	26292.2	27756.4	29309.4	21771.3
65°	5193.9	5078.0	6594.0	9253.8	13895.5	20822.3	29373.5	31269.1	31434.3	32829.5	25592.1
67.5°	3197.2	3248.9	3958.9	5403.4	8216.0	15132.9	29021.0	37350.4	36480.2	37150.7	29139.3
70°	2401.0	2465.0	2953.1	3697.6	5009.0	8652.3	23339.1	38824.5	40039.8	39867.2	30219.0
71°	2087.9	2154.5	2662.3	3364.8	4207.8	6677.8	19663.7	37281.4	40163.0	40133.5	29812.3
72.5°	1779.8	1821.7	2218.5	2849.6	3547.2	4681.1	14773.0	33435.9	38449.8	39433.4	28360.4
75°	1397.7	1429.7	1607.2	2174.2	2792.9	2874.2	7927.6	25067.1	31579.7	33453.2	23610.2
77.5°	1138.9	1161.0	1252.2	1614.6	2154.5	2036.1	4158.5	16316.2	19784.5	21670.2	13907.8
80°	904.7	929.3	983.6	1094.5	1614.6	1451.9	1984.4	8267.8	9557.0	9537.3	5551.3
82.5°	702.5	709.9	774.0	803.6	1104.3	1030.4	1074.8	3500.4	3877.5	4005.7	2004.1
85°	443.7	465.9	685.3	616.3	660.6	603.9	530.0	1390.3	1713.2	1688.6	801.1
87.5°	135.6	143.0	231.7	261.3	293.3	263.8	194.7	409.2	500.4	542.3	199.7
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: P456269

CATALOG NUMBER: GALN-SA7C-730-U-T2

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5504.5	5504.5	5504.5	5504.5	5504.5	5504.5	5504.5	5504.5	5504.5	5504.5	5504.5
2.5°	5536.5	5509.4	5413.2	5334.4	5260.4	5179.1	5110.0	5090.3	5073.1	5065.7	5063.2
5°	5588.3	5506.9	5317.1	5161.8	5038.6	4925.2	4853.7	4821.6	4789.6	4789.6	4799.4
7.5°	5662.2	5514.3	5221.0	4989.3	4834.0	4728.0	4676.2	4671.3	4678.7	4686.1	4688.5
10°	5743.6	5509.4	5080.5	4792.1	4654.0	4604.7	4607.2	4649.1	4688.5	4718.1	4723.0
12.5°	5822.4	5479.8	4915.3	4607.2	4518.4	4528.3	4597.3	4691.0	4767.4	4809.3	4811.8
15°	5911.2	5433.0	4715.6	4432.2	4402.6	4479.0	4607.2	4750.1	4866.0	4935.0	4942.4
17.5°	5985.1	5354.1	4506.1	4262.1	4299.0	4439.6	4617.0	4801.9	4942.4	5028.7	5043.5
20°	6068.9	5253.0	4289.2	4099.4	4205.4	4395.2	4597.3	4797.0	4942.4	5026.2	5046.0
22.5°	6135.5	5110.0	4082.1	3966.3	4121.6	4341.0	4530.8	4691.0	4809.3	4853.7	4883.3
25°	6162.6	4930.1	3887.4	3857.8	4055.0	4252.2	4380.4	4471.6	4508.6	4503.6	4516.0
27.5°	6147.8	4723.0	3719.8	3771.5	3971.2	4114.2	4178.3	4170.9	4104.3	4042.7	4072.3
30°	6086.2	4476.5	3579.3	3682.8	3862.7	3941.6	3931.8	3835.6	3709.9	3594.0	3601.4
32.5°	5975.3	4210.3	3448.6	3581.7	3709.9	3744.4	3677.9	3552.1	3372.2	3221.8	3199.6
35°	5881.6	3956.4	3332.7	3465.9	3557.1	3539.8	3475.7	3313.0	3150.3	3017.2	2995.0
37.5°	5866.8	3739.5	3221.8	3335.2	3387.0	3362.3	3283.4	3145.4	3086.2	2985.2	2972.8
40°	5945.7	3586.6	3108.4	3197.2	3221.8	3202.1	3115.8	3036.9	3091.2	3066.5	3066.5
42.5°	6160.2	3505.3	3007.4	3059.1	3078.8	3093.6	3032.0	2965.5	3032.0	2918.6	2881.6
45°	6500.3	3507.8	2916.2	2923.5	2982.7	3034.5	2992.6	2894.0	2859.5	2632.7	2588.3
47.5°	7000.7	3591.6	2842.2	2795.4	2901.4	2987.6	2928.5	2785.5	2632.7	2482.3	2455.2
50°	7585.0	3741.9	2775.6	2662.3	2792.9	2928.5	2884.1	2716.5	2558.7	2467.5	2450.3
52.5°	8233.3	3931.8	2694.3	2514.3	2659.8	2901.4	2894.0	2706.6	2489.7	2428.1	2413.3
55°	9034.4	4119.1	2593.2	2341.8	2541.5	2879.2	2866.9	2625.3	2474.9	2430.5	2425.6
57.5°	9966.2	4390.3	2447.8	2166.8	2405.9	2788.0	2760.9	2576.0	2425.6	2393.6	2391.1
60°	11467.4	4811.8	2240.7	2006.5	2267.8	2627.7	2662.3	2492.2	2346.7	2339.3	2336.9
62.5°	13441.9	5403.4	2026.3	1841.4	2107.6	2420.7	2519.3	2378.8	2262.9	2299.9	2304.8
65°	16168.3	5901.3	1804.4	1700.9	1930.1	2221.0	2383.7	2272.8	2169.2	2240.7	2240.7
67.5°	17945.6	5911.2	1602.3	1555.4	1750.2	2053.4	2240.7	2147.1	2048.5	2169.2	2174.2
70°	17575.8	5179.1	1434.7	1402.6	1575.2	1873.4	2083.0	2009.0	1895.6	2004.1	1964.6
71°	16979.3	4772.3	1368.1	1343.5	1506.1	1787.2	2009.0	1947.4	1834.0	1905.5	1883.3
72.5°	16027.7	4143.7	1259.6	1264.6	1402.6	1678.7	1905.5	1841.4	1728.0	1767.4	1760.0
75°	13547.9	3618.7	1077.2	1099.4	1205.4	1493.8	1698.4	1649.1	1533.3	1533.3	1525.9
77.5°	8469.9	2529.1	894.8	907.1	1023.0	1279.4	1459.3	1417.4	1306.5	1269.5	1259.6
80°	3160.2	1306.5	700.1	714.9	786.4	1008.2	1207.9	1168.4	1055.0	1013.1	973.7
82.5°	1195.5	655.7	515.2	502.9	579.3	769.1	946.6	899.7	811.0	709.9	680.4
85°	451.1	325.4	315.5	305.7	340.2	456.0	586.7	576.8	483.1	411.7	404.3
87.5°	118.3	106.0	123.3	91.2	96.1	86.3	88.7	37.0	17.3	7.4	4.9
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)