

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: P455113

Luminaire Tested: **GALN-SA6B-730-U-T3**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P455113  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA6B-730-U-T3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 30473 lumens  
Efficiency: N/A  
Efficacy: 125.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G4

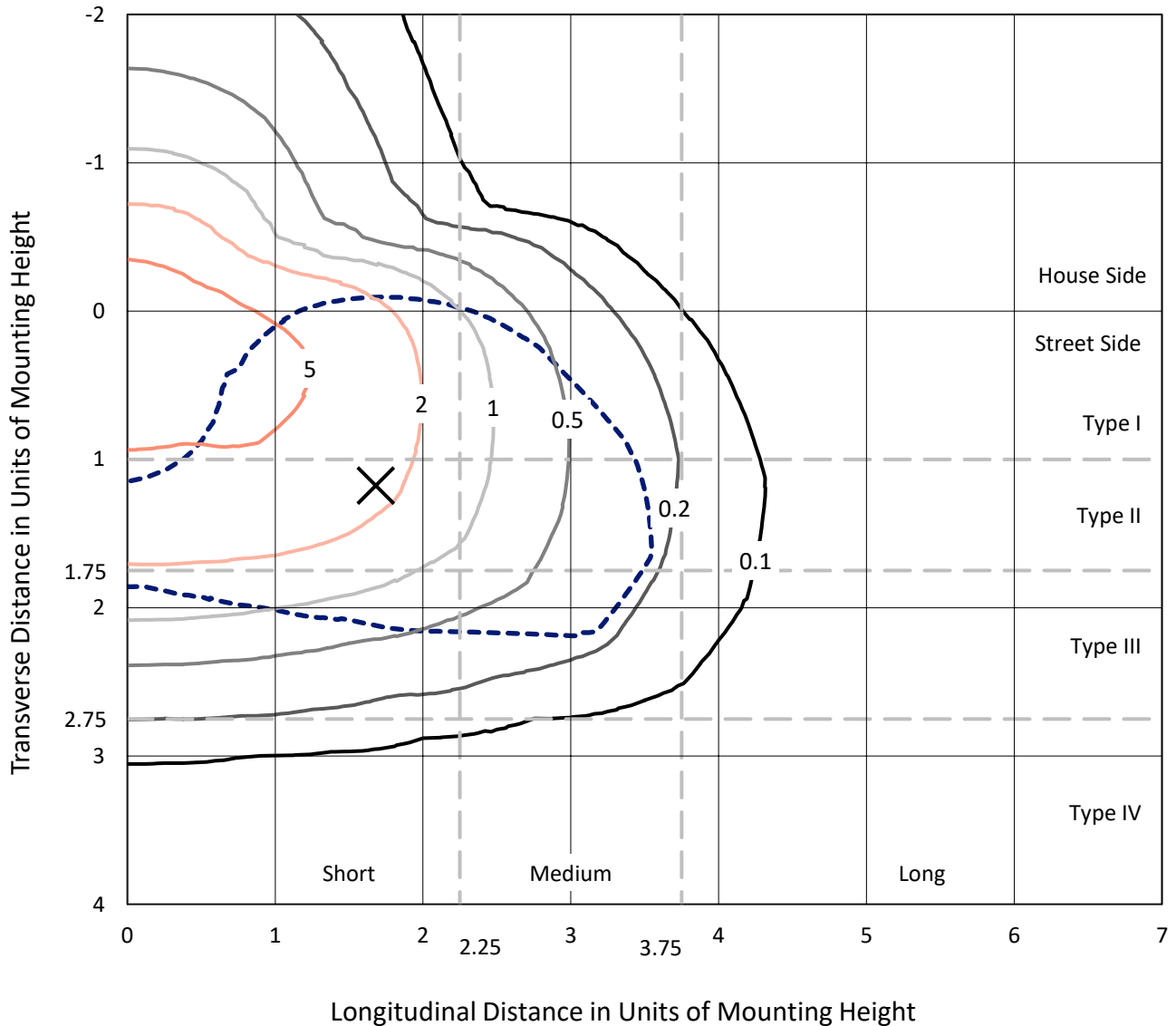
Input Watts (W): 243  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

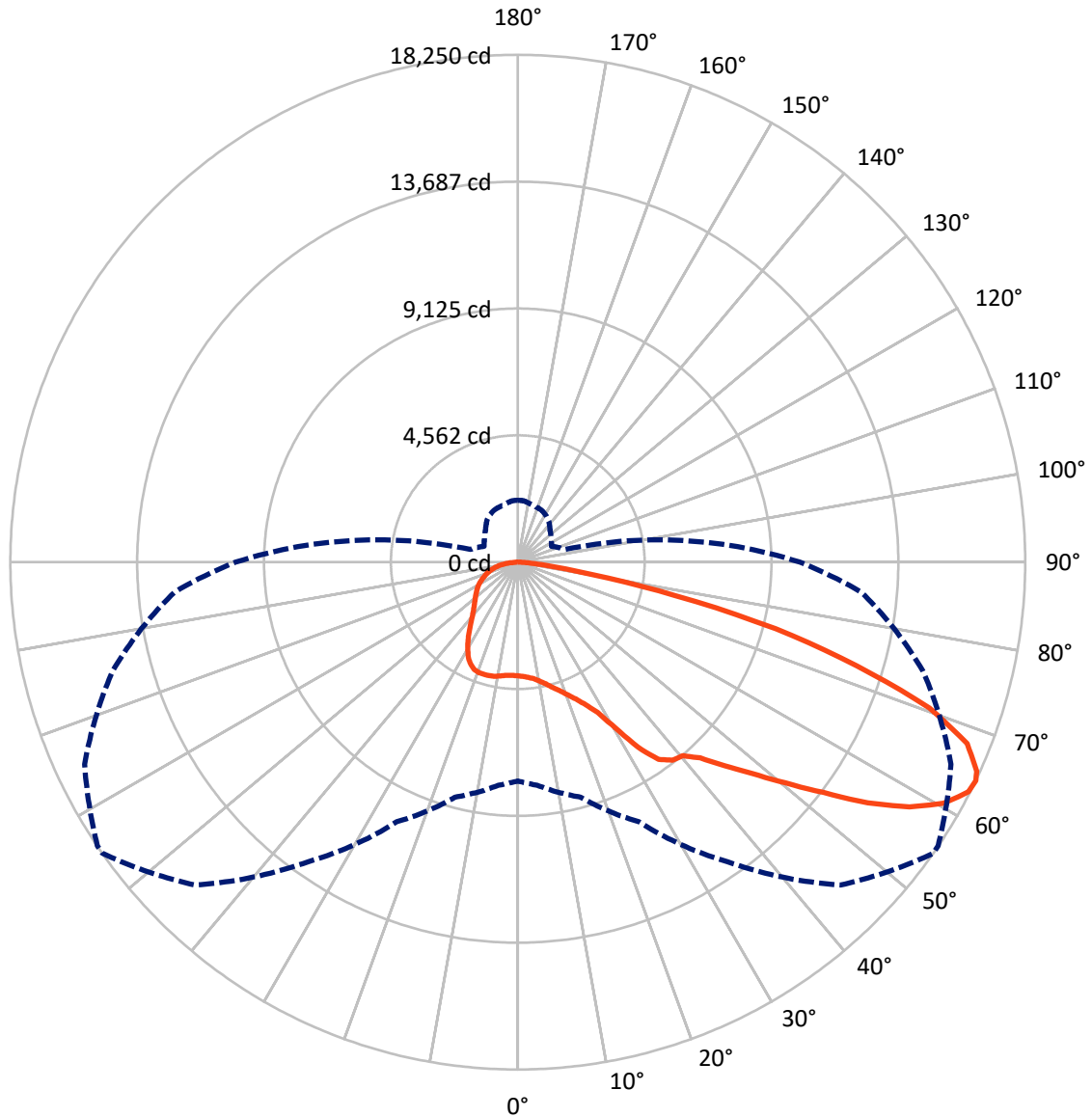
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral    - - - Horizontal Cone Through 64-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7402.5	0.0	7402.5
	% Fixture	24.3	0.0	24.3
<b>Street Side</b>	Lumens	23070.5	0.0	23070.5
	% Fixture	75.7	0.0	75.7
<b>Total</b>	Lumens	30473.0	0.0	30473.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	397.7	1.3
10°-20°	1254.9	4.1
20°-30°	2234.0	7.3
30°-40°	3437.3	11.3
40°-50°	4872.7	16.0
50°-60°	7053.0	23.1
60°-70°	7299.1	24.0
70°-80°	3418.2	11.2
80°-90°	506.0	1.7
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°	30473.0	100.0
0°-180°	30473.0	100.0

**Coefficient of Utilization**



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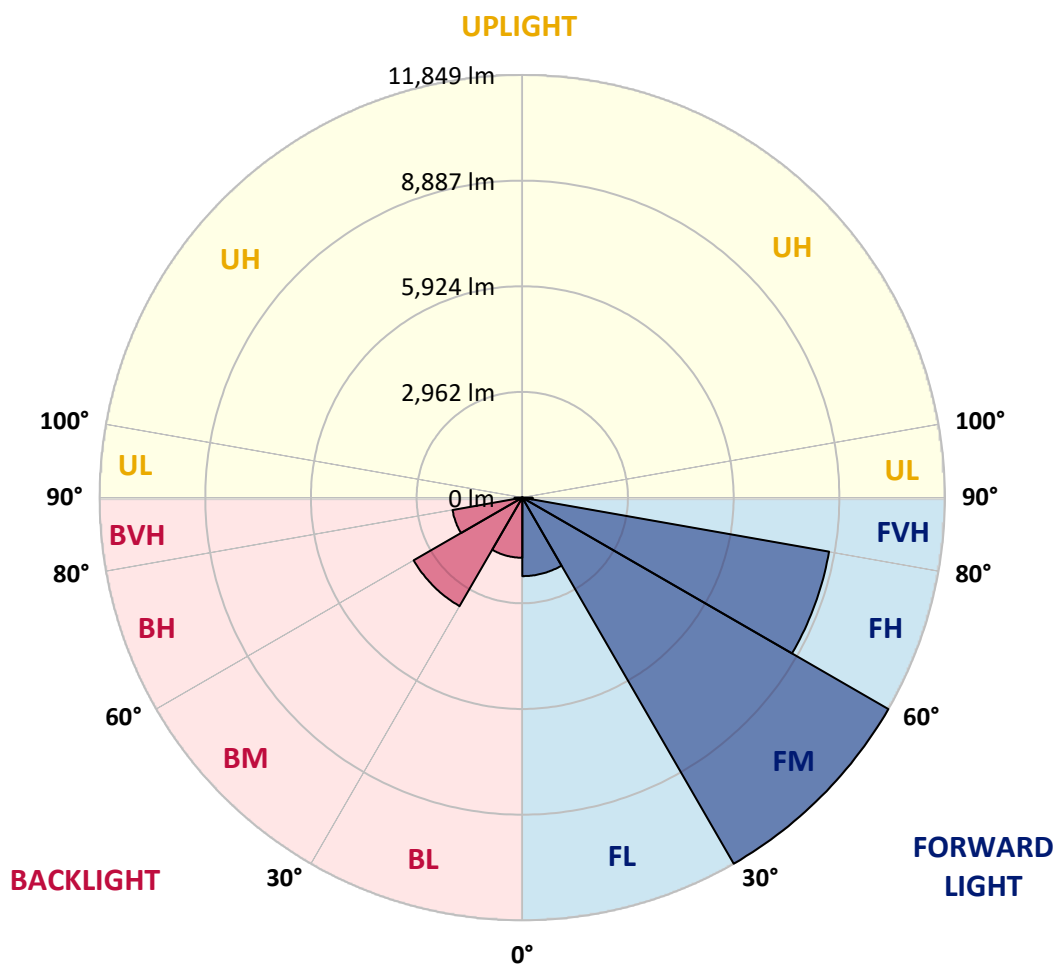
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2200.6	7.2			
FM	(30°-60°)	11848.7	38.9			
FH	(60°-80°)	8731.4	28.7			G4/12000
FVH	(80°-90°)	289.7	1.0			G3/500
BL	(0°-30°)	1686.0	5.5	B3/2500		
BM	(30°-60°)	3514.3	11.5	B3/5000		
BH	(60°-80°)	1985.9	6.5	B3/2500		G3/2500
BVH	(80°-90°)	216.3	0.7			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 III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	4088.6	4088.6	4088.6	4088.6	4088.6	4088.6	4088.6	4088.6	4088.6	4088.6	4088.6
2.5°	4134.4	4132.7	4137.8	4132.7	4136.1	4124.2	4119.1	4122.5	4117.4	4108.9	4093.7
5°	4185.4	4183.7	4185.4	4178.6	4182.0	4175.2	4163.3	4166.7	4158.2	4139.5	4117.4
7.5°	4272.0	4265.2	4265.2	4263.5	4256.7	4246.5	4238.0	4234.6	4226.1	4202.4	4168.4
10°	4384.1	4384.1	4385.8	4372.2	4380.7	4362.0	4353.5	4351.8	4323.0	4292.4	4244.8
12.5°	4531.9	4540.4	4535.3	4528.5	4525.1	4518.3	4489.4	4496.2	4463.9	4411.3	4353.5
15°	4715.3	4728.9	4720.4	4717.0	4708.5	4683.1	4671.2	4666.1	4623.6	4547.2	4470.7
17.5°	4958.2	4941.3	4934.5	4926.0	4890.3	4871.6	4851.2	4847.8	4810.5	4720.4	4601.5
20°	5170.6	5194.4	5180.8	5172.3	5136.6	5100.9	5085.6	5080.5	5048.3	4949.8	4759.5
22.5°	5423.7	5428.8	5433.9	5413.5	5396.5	5369.3	5342.1	5333.6	5321.7	5219.8	4987.1
25°	5693.7	5714.1	5697.1	5676.8	5656.4	5654.7	5680.2	5676.8	5671.7	5573.1	5289.5
27.5°	6133.7	6152.4	6157.5	6135.4	6057.2	6064.0	6121.8	6140.5	6218.6	6055.5	5678.5
30°	6381.7	6400.4	6442.8	6526.1	6650.1	6758.8	6898.1	6940.5	7015.3	6707.8	6140.5
32.5°	6534.6	6541.4	6617.8	6772.4	7144.4	7550.3	7929.1	7944.4	7992.0	7560.5	6563.4
35°	6775.8	6780.9	6842.0	7011.9	7448.4	8124.5	8710.5	8729.2	8690.1	7825.5	6760.5
37.5°	7073.0	7086.6	7125.7	7266.7	7788.1	8605.2	9034.9	9021.3	8674.8	8036.1	7108.7
40°	7506.2	7506.2	7460.3	7650.5	8146.5	8880.3	9148.7	9124.9	9033.2	8645.9	7638.7
42.5°	7888.3	7881.6	7990.3	8119.4	8595.0	9305.0	9626.0	9665.1	9816.3	9412.0	8241.7
45°	8386.0	8416.6	8477.8	8712.2	9357.6	10030.3	10444.8	10482.1	10696.2	10314.0	8946.6
47.5°	8888.8	8899.0	9091.0	9403.5	10302.1	11013.8	11353.5	11414.7	11610.0	11368.8	9705.9
50°	9245.5	9342.4	9649.8	10142.4	11275.4	12213.0	12478.0	12551.0	12895.9	12517.1	10590.8
52.5°	9622.6	9717.8	10093.1	10843.9	12393.1	13439.4	13765.5	13814.8	14173.2	13678.9	11496.2
55°	9945.4	10033.7	10460.0	11465.6	13283.1	14691.3	15282.4	15224.7	15396.2	14574.1	12194.3
57.5°	9998.0	10069.4	10606.1	11863.1	13952.4	15764.8	16612.4	16646.4	16447.7	15243.3	12770.2
60°	9590.4	9736.4	10353.0	11820.6	14253.0	16512.2	17604.4	17628.2	17064.2	15586.5	12999.5
62.5°	8868.4	8853.2	9598.9	11137.8	13831.8	16682.1	18188.7	18163.2	17305.4	15421.7	12777.0
64°	7871.4	8054.8	8751.2	10298.7	13152.3	16420.5	18249.9	18236.3	17189.9	15078.6	12398.2
65°	7263.3	7253.1	7941.0	9612.4	12476.3	16026.4	18141.2	18122.5	16948.7	14771.1	12104.3
67.5°	5243.6	5267.4	5946.8	7417.8	10142.4	14485.8	17432.8	17363.2	15997.5	13752.0	10986.6
70°	3176.4	3190.0	3723.4	4920.9	7280.2	11710.2	15713.9	15717.2	14541.8	12230.0	9350.9
72.5°	1673.1	1708.8	1922.8	2794.2	4421.5	8216.2	12748.1	13050.4	12484.8	10438.0	7387.3
75°	930.8	935.9	1087.1	1377.6	2255.8	4598.1	9581.9	9668.5	9884.2	8401.3	5462.7
77.5°	710.0	720.2	767.8	890.1	1228.1	2131.8	5799.1	6233.9	6966.0	5923.1	3117.0
80°	575.8	586.0	626.8	699.8	817.0	1010.7	2694.0	2928.4	3728.5	2629.4	1216.2
82.5°	448.4	441.6	494.3	541.9	594.5	597.9	1105.8	1223.0	1518.6	1131.3	526.6
85°	332.9	332.9	375.4	365.2	383.9	349.9	487.5	538.5	608.1	480.7	244.6
87.5°	132.5	146.1	246.3	220.8	171.6	137.6	180.1	190.2	210.6	188.5	101.9
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°	4088.6	4088.6	4088.6	4088.6	4088.6	4088.6	4088.6	4088.6	4088.6	4088.6	4088.6
2.5°	4095.4	4100.4	4088.6	4080.1	4076.7	4071.6	4066.5	4068.2	4075.0	4081.8	4080.1
5°	4115.7	4117.4	4097.0	4086.9	4080.1	4073.3	4073.3	4078.4	4092.0	4102.1	4102.1
7.5°	4166.7	4166.7	4137.8	4119.1	4108.9	4097.0	4093.7	4095.4	4105.5	4119.1	4120.8
10°	4246.5	4239.7	4202.4	4173.5	4154.8	4125.9	4100.4	4086.9	4092.0	4100.4	4100.4
12.5°	4343.3	4324.7	4277.1	4238.0	4192.2	4137.8	4085.2	4058.0	4056.3	4064.8	4061.4
15°	4447.0	4426.6	4360.3	4289.0	4209.2	4129.3	4066.5	4027.4	3996.8	3988.3	4007.0
17.5°	4567.6	4525.1	4433.4	4334.9	4216.0	4112.3	4013.8	3934.0	3879.6	3864.3	3869.4
20°	4713.6	4657.6	4533.6	4379.0	4210.9	4051.2	3898.3	3791.3	3703.0	3675.8	3679.2
22.5°	4915.8	4819.0	4637.2	4401.1	4168.4	3935.7	3723.4	3584.1	3477.1	3434.6	3460.1
25°	5145.1	5039.8	4735.7	4396.0	4058.0	3750.5	3516.1	3334.4	3237.6	3174.7	3188.3
27.5°	5461.0	5274.2	4841.0	4350.1	3900.0	3524.6	3252.8	3081.3	2993.0	2960.7	2976.0
30°	5865.3	5578.2	4954.8	4226.1	3650.3	3239.3	2987.9	2875.7	2823.1	2782.3	2795.9
32.5°	6157.5	5792.3	4980.3	4017.2	3380.2	2979.4	2807.8	2724.6	2666.8	2627.8	2636.2
35°	6366.4	5974.0	4968.4	3760.7	3098.3	2765.3	2665.1	2597.2	2503.8	2418.8	2403.5
37.5°	6646.7	6201.6	4881.8	3480.5	2819.7	2621.0	2549.6	2423.9	2289.7	2175.9	2170.8
40°	7076.4	6468.3	4696.7	3150.9	2581.9	2513.9	2427.3	2264.2	2119.9	2028.1	2021.3
42.5°	7519.8	6714.6	4445.3	2804.4	2386.5	2401.8	2296.5	2135.2	2046.8	1987.4	1980.6
45°	8061.6	6981.3	4173.5	2503.8	2242.2	2296.5	2182.7	2089.3	2036.6	1997.6	1987.4
47.5°	8647.6	7254.8	3867.7	2233.7	2119.9	2199.7	2135.2	2092.7	2063.8	2036.6	2024.7
50°	9279.5	7560.5	3580.7	2016.3	2009.5	2099.5	2130.1	2114.8	2097.8	2089.3	2079.1
52.5°	9972.5	7873.1	3339.5	1863.4	1912.6	2028.1	2131.8	2143.6	2143.6	2138.6	2131.8
55°	10441.4	8090.5	3094.9	1739.4	1814.1	1970.4	2128.4	2174.2	2191.2	2184.4	2177.6
57.5°	10787.9	8209.4	2787.4	1632.4	1730.9	1914.3	2109.7	2177.6	2194.6	2203.1	2199.7
60°	10859.2	8099.0	2384.8	1520.3	1640.9	1832.8	2041.7	2126.7	2148.7	2201.4	2206.5
62.5°	10538.2	7759.3	1984.0	1409.8	1530.4	1708.8	1950.0	2068.9	2113.1	2194.6	2203.1
64°	10144.1	7378.8	1761.5	1340.2	1459.1	1639.2	1904.1	2053.6	2111.4	2220.1	2226.9
65°	9855.3	7101.9	1622.2	1296.0	1413.2	1593.3	1878.7	2058.7	2126.7	2259.2	2269.3
67.5°	8792.0	6149.0	1341.9	1192.4	1304.5	1515.2	1883.8	2101.2	2123.3	2274.4	2272.7
70°	7275.2	4895.4	1124.5	1097.3	1199.2	1452.3	1863.4	2033.2	2034.9	2135.2	2111.4
72.5°	5447.4	3618.0	975.0	998.8	1082.0	1302.8	1759.8	1941.5	1912.6	1926.2	1902.4
75°	3742.0	2393.3	839.1	893.5	959.7	1151.7	1613.7	1763.2	1717.3	1700.3	1683.3
77.5°	1997.6	1323.2	698.1	789.9	834.0	995.4	1408.1	1552.5	1505.0	1438.7	1416.6
80°	808.5	623.4	562.2	654.0	679.4	801.7	1172.0	1262.1	1226.4	1110.9	1073.5
82.5°	406.0	373.7	441.6	514.7	516.4	572.4	871.4	956.3	876.5	735.5	703.2
85°	212.3	219.1	304.1	361.8	319.3	309.1	523.2	579.2	531.7	462.0	416.2
87.5°	76.4	88.3	159.7	158.0	112.1	59.5	115.5	56.1	30.6	18.7	23.8
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)