

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: P454620

Luminaire Tested: **GALN-SA5D-727-U-T3**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P454620  
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-SA5D-727-U-T3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 32129 lumens  
Efficiency: N/A  
Efficacy: 104.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G4

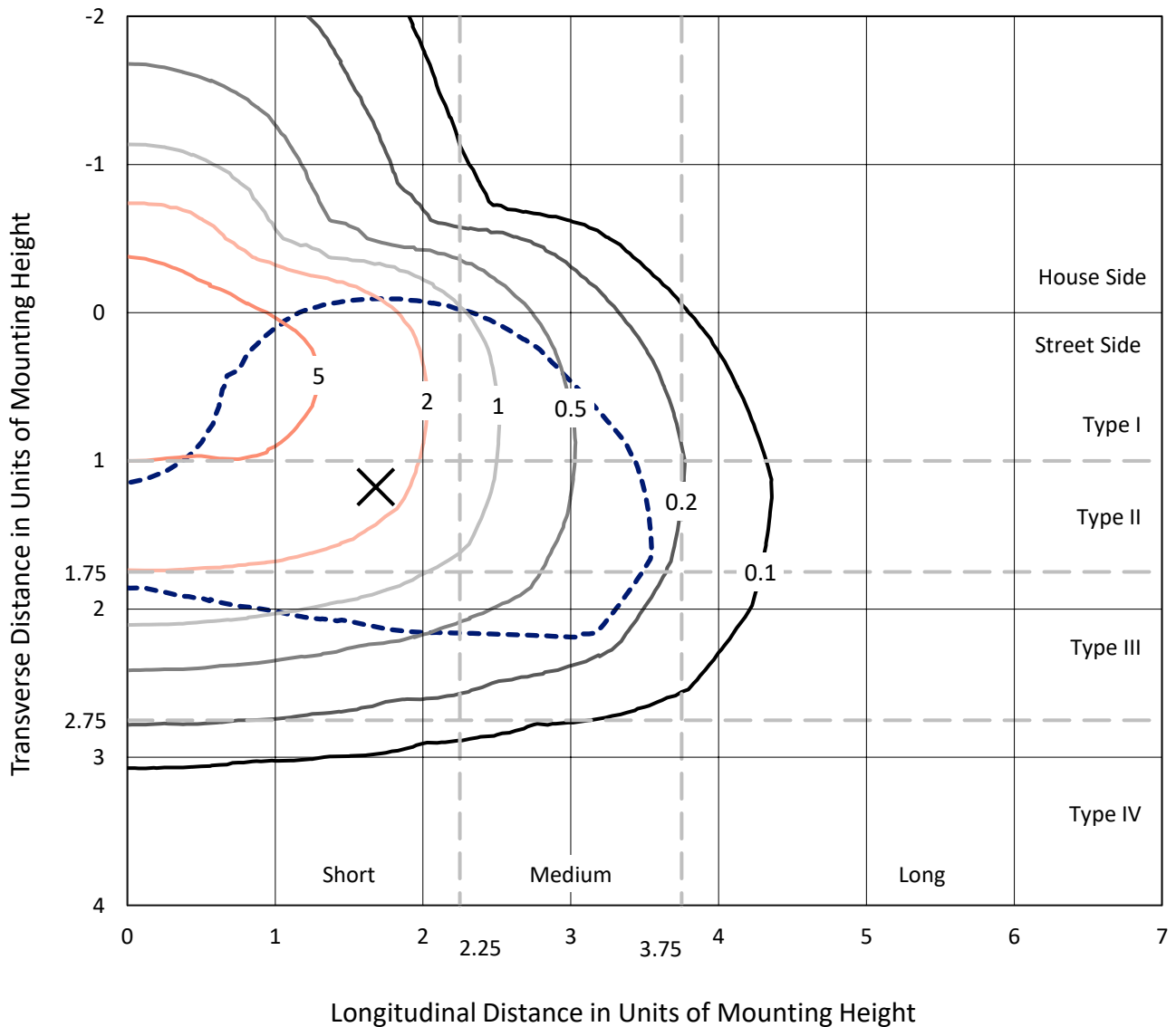
Input Watts (W): 309  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

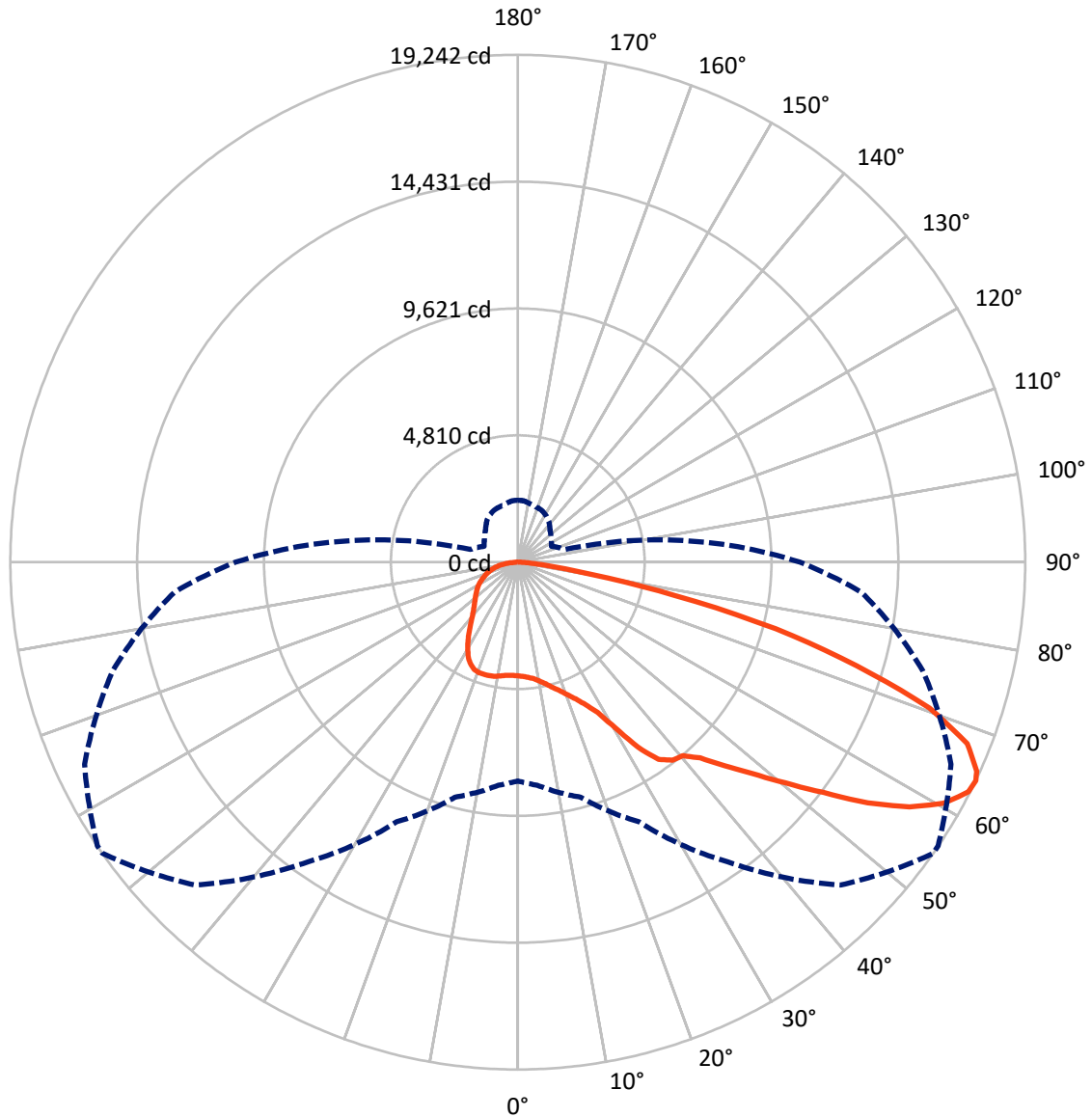
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 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	7804.8	0.0	7804.8
	% Fixture	24.3	0.0	24.3
<b>Street Side</b>	Lumens	24324.2	0.0	24324.2
	% Fixture	75.7	0.0	75.7
<b>Total</b>	Lumens	32129.0	0.0	32129.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	419.3	1.3
10°-20°	1323.1	4.1
20°-30°	2355.4	7.3
30°-40°	3624.1	11.3
40°-50°	5137.4	16.0
50°-60°	7436.3	23.1
60°-70°	7695.8	24.0
70°-80°	3604.0	11.2
80°-90°	533.5	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°	32129.0	100.0
0°-180°	32129.0	100.0

**Coefficient of Utilization**



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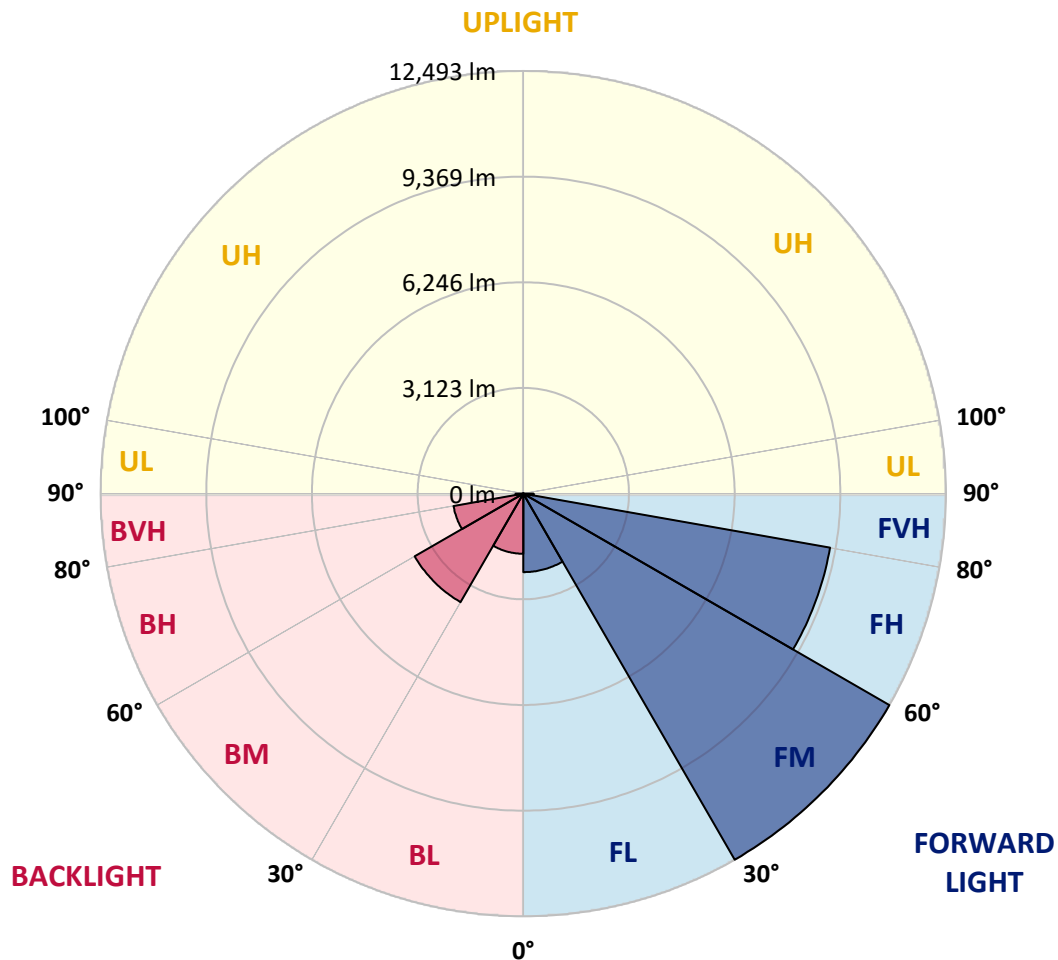
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2320.2	7.2			
FM	(30°-60°)	12492.6	38.9			
FH	(60°-80°)	9205.9	28.7			G4/12000
FVH	(80°-90°)	305.5	1.0			G3/500
BL	(0°-30°)	1777.6	5.5	B3/2500		
BM	(30°-60°)	3705.2	11.5	B3/5000		
BH	(60°-80°)	2093.9	6.5	B3/2500		G3/2500
BVH	(80°-90°)	228.0	0.7			G3/500
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°	4310.7	4310.7	4310.7	4310.7	4310.7	4310.7	4310.7	4310.7	4310.7	4310.7	4310.7
2.5°	4359.1	4357.3	4362.7	4357.3	4360.9	4348.4	4343.0	4346.6	4341.2	4332.2	4316.1
5°	4412.8	4411.0	4412.8	4405.7	4409.2	4402.1	4389.5	4393.1	4384.2	4364.5	4341.2
7.5°	4504.2	4497.0	4497.0	4495.2	4488.0	4477.3	4468.3	4464.8	4455.8	4430.7	4394.9
10°	4622.4	4622.4	4624.2	4609.8	4618.8	4599.1	4590.1	4588.3	4557.9	4525.7	4475.5
12.5°	4778.2	4787.1	4781.8	4774.6	4771.0	4763.8	4733.4	4740.6	4706.5	4651.0	4590.1
15°	4971.6	4985.9	4977.0	4973.4	4964.4	4937.6	4925.0	4919.7	4874.9	4794.3	4713.7
17.5°	5227.7	5209.8	5202.6	5193.7	5156.1	5136.4	5114.9	5111.3	5071.9	4977.0	4851.6
20°	5451.6	5476.6	5462.3	5453.3	5415.7	5378.1	5362.0	5356.6	5322.6	5218.7	5018.2
22.5°	5718.4	5723.8	5729.1	5707.7	5689.7	5661.1	5632.4	5623.5	5610.9	5503.5	5258.1
25°	6003.2	6024.7	6006.7	5985.3	5963.8	5962.0	5988.8	5985.3	5979.9	5876.0	5576.9
27.5°	6467.0	6486.7	6492.1	6468.8	6386.4	6393.6	6454.5	6474.2	6556.6	6384.6	5987.0
30°	6728.5	6748.2	6793.0	6880.7	7011.4	7126.1	7272.9	7317.7	7396.5	7072.3	6474.2
32.5°	6889.7	6896.8	6977.4	7140.4	7532.6	7960.6	8360.0	8376.1	8426.3	7971.4	6920.1
35°	7144.0	7149.3	7213.8	7392.9	7853.2	8566.0	9183.8	9203.5	9162.3	8250.8	7127.9
37.5°	7457.4	7471.7	7512.9	7661.6	8211.4	9072.8	9525.9	9511.6	9146.2	8472.8	7495.0
40°	7914.1	7914.1	7865.7	8066.3	8589.2	9362.9	9645.9	9620.8	9524.1	9115.8	8053.8
42.5°	8317.0	8309.9	8424.5	8560.6	9062.1	9810.7	10149.1	10190.3	10349.7	9923.5	8689.5
45°	8841.8	8874.0	8938.5	9185.6	9866.2	10575.4	11012.4	11051.8	11277.4	10874.5	9432.8
47.5°	9371.9	9382.6	9585.0	9914.5	10861.9	11612.3	11970.5	12035.0	12240.9	11986.6	10233.3
50°	9748.0	9850.1	10174.2	10693.6	11888.1	12876.7	13156.1	13233.1	13596.7	13197.3	11166.4
52.5°	10145.6	10245.8	10641.6	11433.2	13066.5	14169.8	14513.6	14565.5	14943.4	14422.3	12120.9
55°	10485.8	10579.0	11028.5	12088.7	14005.0	15489.7	16112.9	16052.0	16232.9	15366.1	12857.0
57.5°	10541.3	10616.6	11182.5	12507.8	14710.6	16621.5	17515.2	17551.0	17341.5	16071.7	13464.1
60°	10111.5	10265.5	10915.7	12463.0	15027.6	17409.5	18561.1	18586.2	17991.6	16433.5	13705.9
62.5°	9350.4	9334.3	10120.5	11743.1	14583.5	17588.6	19177.2	19150.3	18245.9	16259.8	13471.3
64°	8299.1	8492.5	9226.8	10858.3	13867.1	17312.8	19241.6	19227.3	18124.1	15898.0	13071.9
65°	7658.0	7647.2	8372.5	10134.8	13154.3	16897.3	19127.0	19107.3	17869.8	15573.8	12762.1
67.5°	5528.6	5553.6	6270.0	7820.9	10693.6	15273.0	18380.2	18306.8	16866.9	14499.3	11583.7
70°	3349.0	3363.3	3925.7	5188.3	7675.9	12346.6	16567.8	16571.4	15332.1	12894.6	9859.0
72.5°	1764.1	1801.7	2027.3	2946.1	4661.8	8662.7	13440.8	13759.6	13163.3	11005.2	7788.7
75°	981.4	986.8	1146.2	1452.4	2378.3	4848.0	10102.6	10193.9	10421.4	8857.9	5759.6
77.5°	748.6	759.3	809.5	938.4	1294.8	2247.6	6114.2	6572.7	7344.6	6244.9	3286.3
80°	607.1	617.9	660.8	737.9	861.4	1065.6	2840.4	3087.5	3931.1	2772.3	1282.3
82.5°	472.8	465.6	521.2	571.3	626.8	630.4	1165.9	1289.5	1601.1	1192.8	555.2
85°	351.0	351.0	395.8	385.0	404.7	368.9	514.0	567.7	641.1	506.8	257.9
87.5°	139.7	154.0	259.7	232.8	180.9	145.1	189.8	200.6	222.1	198.8	107.5
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°	4310.7	4310.7	4310.7	4310.7	4310.7	4310.7	4310.7	4310.7	4310.7	4310.7	4310.7
2.5°	4317.9	4323.3	4310.7	4301.8	4298.2	4292.8	4287.5	4289.3	4296.4	4303.6	4301.8
5°	4339.4	4341.2	4319.7	4309.0	4301.8	4294.6	4294.6	4300.0	4314.3	4325.1	4325.1
7.5°	4393.1	4393.1	4362.7	4343.0	4332.2	4319.7	4316.1	4317.9	4328.7	4343.0	4344.8
10°	4477.3	4470.1	4430.7	4400.3	4380.6	4350.1	4323.3	4309.0	4314.3	4323.3	4323.3
12.5°	4579.4	4559.7	4509.5	4468.3	4420.0	4362.7	4307.2	4278.5	4276.7	4285.7	4282.1
15°	4688.6	4667.1	4597.3	4522.1	4437.9	4353.7	4287.5	4246.3	4214.0	4205.1	4224.8
17.5°	4815.8	4771.0	4674.3	4570.4	4445.1	4335.8	4231.9	4147.8	4090.5	4074.3	4079.7
20°	4969.8	4910.7	4780.0	4617.0	4439.7	4271.3	4110.2	3997.3	3904.2	3875.5	3879.1
22.5°	5182.9	5080.8	4889.2	4640.3	4394.9	4149.6	3925.7	3778.8	3666.0	3621.2	3648.1
25°	5424.7	5313.7	4993.1	4634.9	4278.5	3954.3	3707.2	3515.6	3413.5	3347.2	3361.6
27.5°	5757.8	5560.8	5104.1	4586.5	4112.0	3716.2	3429.6	3248.7	3155.6	3121.6	3137.7
30°	6184.0	5881.4	5224.1	4455.8	3848.7	3415.3	3150.2	3032.0	2976.5	2933.5	2947.9
32.5°	6492.1	6107.0	5251.0	4235.5	3563.9	3141.3	2960.4	2872.6	2811.7	2770.6	2779.5
35°	6712.4	6298.7	5238.4	3965.1	3266.6	2915.6	2810.0	2738.3	2639.8	2550.3	2534.2
37.5°	7007.9	6538.6	5147.1	3669.6	2972.9	2763.4	2688.2	2555.6	2414.2	2294.2	2288.8
40°	7461.0	6819.8	4951.9	3322.2	2722.2	2650.6	2559.2	2387.3	2235.1	2138.4	2131.2
42.5°	7928.4	7079.5	4686.8	2956.8	2516.2	2532.4	2421.3	2251.2	2158.1	2095.4	2088.2
45°	8499.7	7360.7	4400.3	2639.8	2364.0	2421.3	2301.3	2202.8	2147.3	2106.1	2095.4
47.5°	9117.6	7649.0	4077.9	2355.1	2235.1	2319.2	2251.2	2206.4	2176.0	2147.3	2134.8
50°	9783.8	7971.4	3775.3	2125.8	2118.7	2213.6	2245.8	2229.7	2211.8	2202.8	2192.1
52.5°	10514.5	8300.9	3520.9	1964.6	2016.6	2138.4	2247.6	2260.1	2260.1	2254.8	2247.6
55°	11008.8	8530.1	3263.1	1833.9	1912.7	2077.5	2244.0	2292.4	2310.3	2303.1	2296.0
57.5°	11374.1	8655.5	2938.9	1721.1	1824.9	2018.4	2224.3	2296.0	2313.9	2322.8	2319.2
60°	11449.3	8539.1	2514.5	1602.9	1730.0	1932.4	2152.7	2242.2	2265.5	2321.0	2326.4
62.5°	11110.9	8180.9	2091.8	1486.5	1613.6	1801.7	2056.0	2181.3	2227.9	2313.9	2322.8
64°	10695.4	7779.8	1857.2	1413.0	1538.4	1728.2	2007.6	2165.2	2226.1	2340.7	2347.9
65°	10390.9	7487.8	1710.3	1366.5	1490.0	1679.9	1980.8	2170.6	2242.2	2381.9	2392.7
67.5°	9269.8	6483.1	1414.8	1257.2	1375.4	1597.5	1986.1	2215.4	2238.6	2398.0	2396.2
70°	7670.5	5161.4	1185.6	1156.9	1264.4	1531.2	1964.6	2143.7	2145.5	2251.2	2226.1
72.5°	5743.5	3814.7	1028.0	1053.1	1140.8	1373.6	1855.4	2047.0	2016.6	2030.9	2005.8
75°	3945.4	2523.4	884.7	942.0	1011.9	1214.2	1701.4	1859.0	1810.6	1792.7	1774.8
77.5°	2106.1	1395.1	736.1	832.8	879.3	1049.5	1484.7	1636.9	1586.8	1516.9	1493.6
80°	852.5	657.3	592.8	689.5	716.4	845.3	1235.7	1330.7	1293.0	1171.3	1131.9
82.5°	428.0	394.0	465.6	542.6	544.4	603.5	918.7	1008.3	924.1	775.5	741.4
85°	223.9	231.0	320.6	381.5	336.7	325.9	551.6	610.7	560.6	487.1	438.8
87.5°	80.6	93.1	168.3	166.6	118.2	62.7	121.8	59.1	32.2	19.7	25.1
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)