

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: P454388

Luminaire Tested: **GALN-SA5C-727-U-T3**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P454388  
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-SA5C-727-U-T3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 29199 lumens  
Efficiency: N/A  
Efficacy: 108.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G4

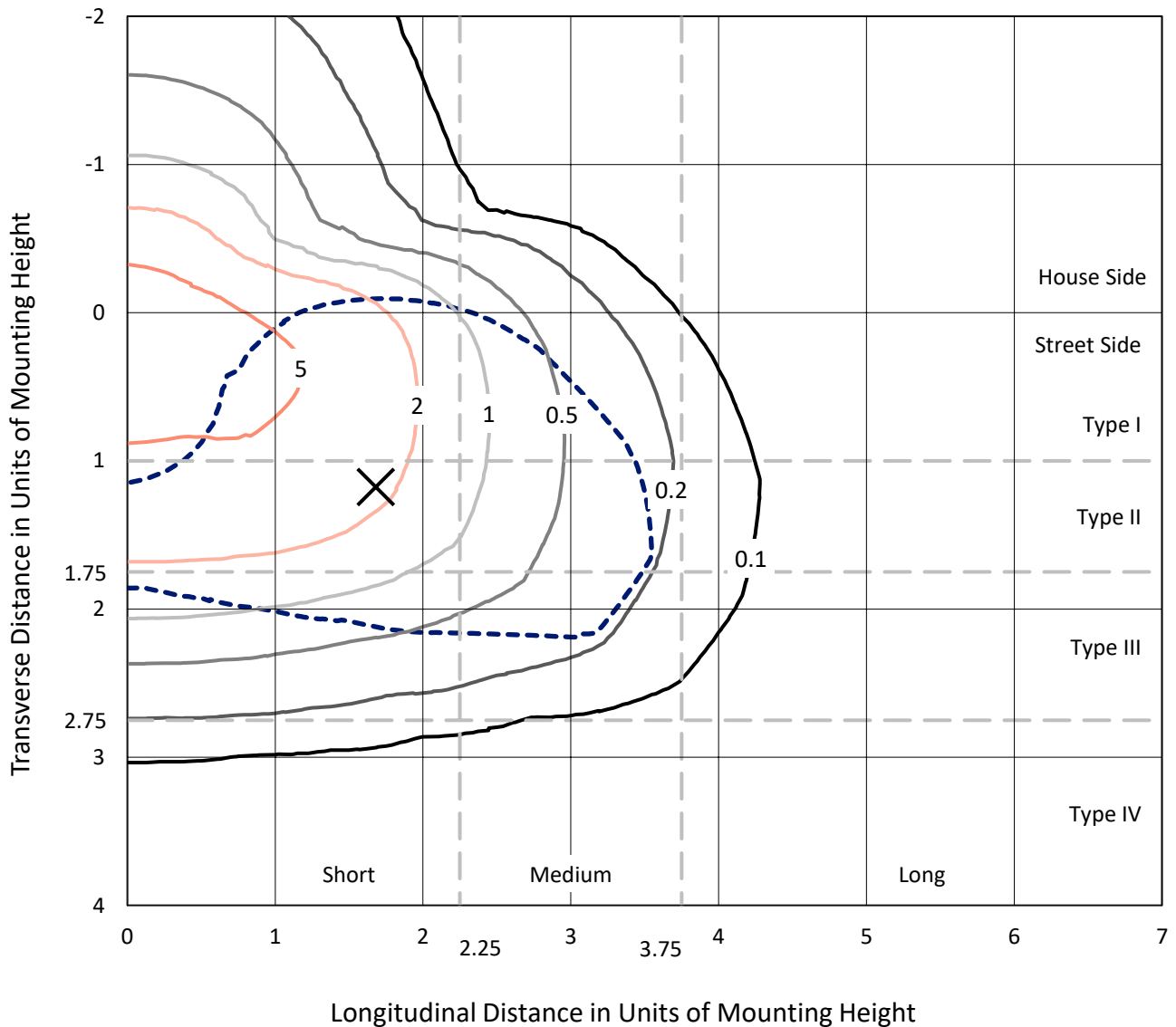
Input Watts (W): 269  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

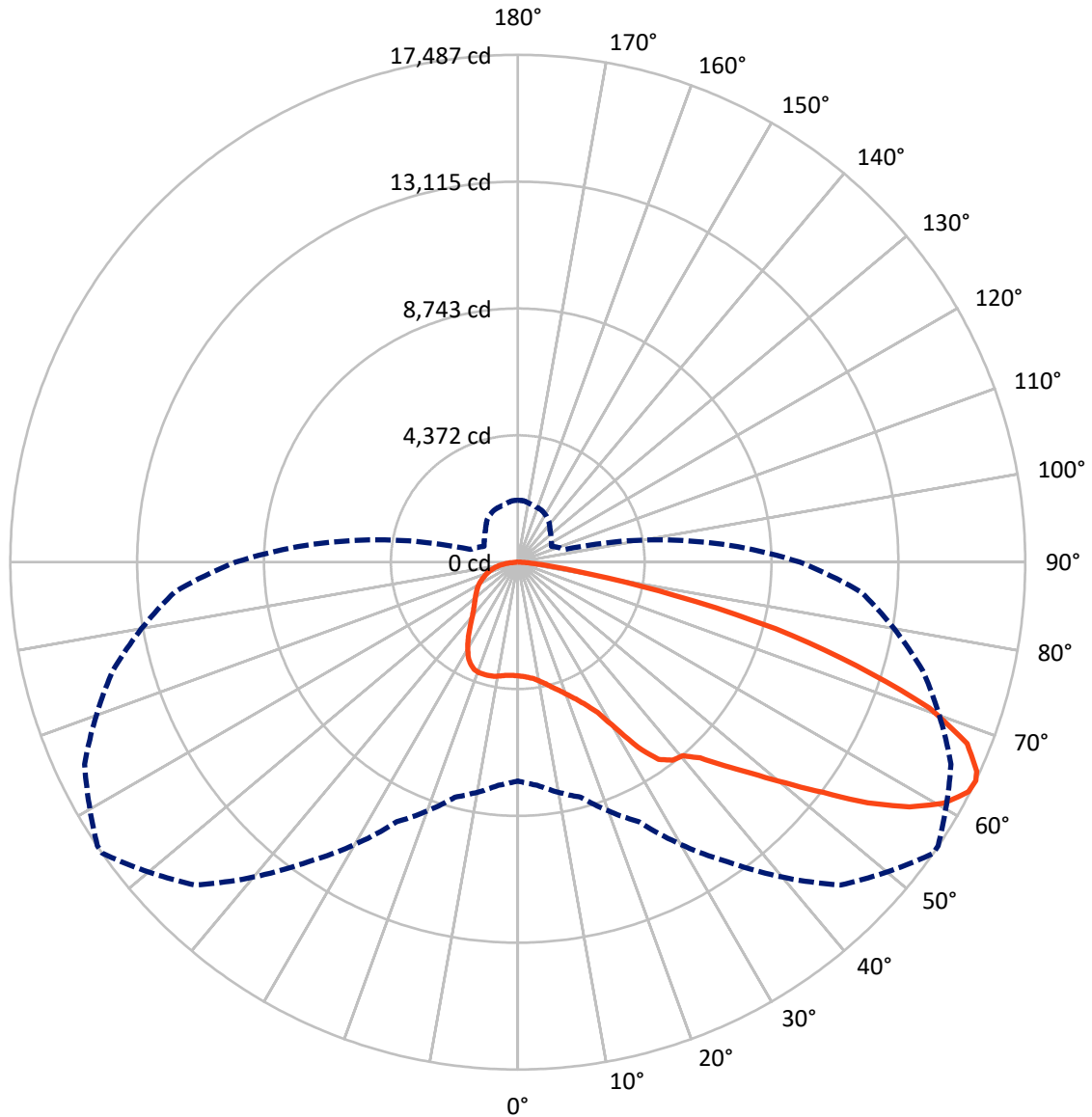
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 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	7093.0	0.0	7093.0
	% Fixture	24.3	0.0	24.3
<b>Street Side</b>	Lumens	22106.0	0.0	22106.0
	% Fixture	75.7	0.0	75.7
<b>Total</b>	Lumens	29199.0	0.0	29199.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	381.1	1.3
10°-20°	1202.4	4.1
20°-30°	2140.6	7.3
30°-40°	3293.6	11.3
40°-50°	4668.9	16.0
50°-60°	6758.2	23.1
60°-70°	6994.0	24.0
70°-80°	3275.3	11.2
80°-90°	484.9	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°	29199.0	100.0
0°-180°	29199.0	100.0

**Coefficient of Utilization**



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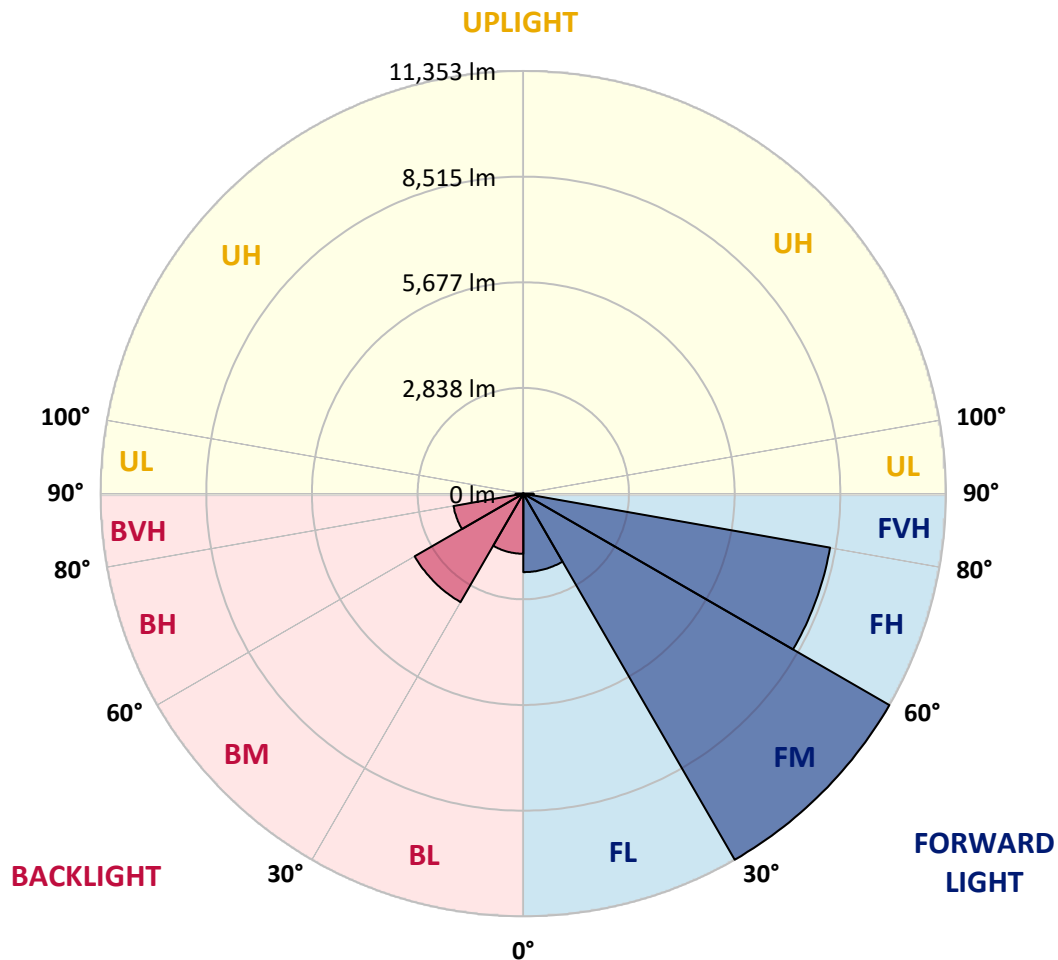
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2108.6	7.2			
FM	(30°-60°)	11353.4	38.9			
FH	(60°-80°)	8366.4	28.7			G4/12000
FVH	(80°-90°)	277.6	1.0			G3/500
BL	(0°-30°)	1615.5	5.5	B3/2500		
BM	(30°-60°)	3367.3	11.5	B3/5000		
BH	(60°-80°)	1902.9	6.5	B3/2500		G3/2500
BVH	(80°-90°)	207.2	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°	3917.6	3917.6	3917.6	3917.6	3917.6	3917.6	3917.6	3917.6	3917.6	3917.6	3917.6
2.5°	3961.6	3959.9	3964.8	3959.9	3963.2	3951.8	3946.9	3950.2	3945.3	3937.2	3922.5
5°	4010.4	4008.8	4010.4	4003.9	4007.1	4000.6	3989.2	3992.5	3984.4	3966.5	3945.3
7.5°	4093.4	4086.9	4086.9	4085.3	4078.8	4069.0	4060.9	4057.6	4049.5	4026.7	3994.1
10°	4200.8	4200.8	4202.5	4189.4	4197.6	4179.7	4171.5	4169.9	4142.2	4112.9	4067.4
12.5°	4342.4	4350.6	4345.7	4339.2	4335.9	4329.4	4301.7	4308.2	4277.3	4226.9	4171.5
15°	4518.2	4531.2	4523.1	4519.8	4511.7	4487.3	4475.9	4471.0	4430.3	4357.1	4283.8
17.5°	4751.0	4734.7	4728.2	4720.0	4685.8	4667.9	4648.4	4645.2	4609.4	4523.1	4409.2
20°	4954.4	4977.2	4964.2	4956.0	4921.9	4887.7	4873.0	4868.1	4837.2	4742.8	4560.5
22.5°	5196.9	5201.8	5206.7	5187.1	5170.9	5144.8	5118.8	5110.7	5099.3	5001.6	4778.6
25°	5455.7	5475.2	5459.0	5439.4	5419.9	5418.3	5442.7	5439.4	5434.5	5340.1	5068.3
27.5°	5877.3	5895.2	5900.0	5878.9	5804.0	5810.5	5865.9	5883.8	5958.6	5802.4	5441.1
30°	6114.9	6132.8	6173.5	6253.2	6372.0	6476.2	6609.7	6650.4	6722.0	6427.4	5883.8
32.5°	6261.4	6267.9	6341.1	6489.2	6845.7	7234.7	7597.6	7612.3	7657.8	7244.4	6289.0
35°	6492.5	6497.4	6556.0	6718.7	7137.0	7784.8	8346.3	8364.2	8326.8	7498.3	6477.8
37.5°	6777.3	6790.3	6827.8	6962.9	7462.5	8245.4	8657.2	8644.2	8312.1	7700.2	6811.5
40°	7192.3	7192.3	7148.4	7330.7	7806.0	8509.1	8766.2	8743.4	8655.6	8284.5	7319.3
42.5°	7558.6	7552.0	7656.2	7779.9	8235.6	8916.0	9223.6	9261.0	9405.9	9018.5	7897.1
45°	8035.4	8064.7	8123.3	8347.9	8966.4	9611.0	10008.1	10043.9	10249.0	9882.8	8572.6
47.5°	8517.2	8527.0	8710.9	9010.4	9871.4	10553.3	10878.9	10937.4	11124.6	10893.5	9300.1
50°	8859.0	8951.8	9246.4	9718.4	10804.0	11702.4	11956.3	12026.3	12356.7	11993.8	10148.1
52.5°	9220.3	9311.5	9671.2	10390.6	11874.9	12877.5	13190.0	13237.2	13580.7	13107.0	11015.6
55°	9529.6	9614.2	10022.7	10986.3	12727.8	14077.1	14643.5	14588.1	14752.5	13964.8	11684.5
57.5°	9580.0	9648.4	10162.7	11367.1	13369.1	15105.7	15917.9	15950.4	15760.0	14606.0	12236.3
60°	9189.4	9329.4	9920.2	11326.4	13657.2	15821.9	16868.4	16891.2	16350.8	14934.8	12456.0
62.5°	8497.7	8483.0	9197.5	10672.1	13253.5	15984.6	17428.3	17403.9	16582.0	14776.9	12242.8
64°	7542.3	7718.1	8385.4	9868.1	12602.5	15734.0	17486.9	17473.9	16471.3	14448.2	11879.8
65°	6959.6	6949.8	7609.0	9210.6	11954.7	15356.4	17382.7	17364.8	16240.2	14153.6	11598.3
67.5°	5024.4	5047.2	5698.2	7107.7	9718.4	13880.1	16704.0	16637.3	15328.7	13177.0	10527.3
70°	3043.6	3056.6	3567.7	4715.1	6975.9	11220.6	15056.9	15060.1	13933.9	11718.7	8959.9
72.5°	1603.2	1637.4	1842.4	2677.4	4236.6	7872.7	12215.1	12504.8	11962.8	10001.6	7078.4
75°	891.9	896.8	1041.7	1320.0	2161.4	4405.9	9181.3	9264.3	9471.0	8050.1	5234.3
77.5°	680.3	690.1	735.7	852.9	1176.8	2042.6	5556.6	5973.3	6674.8	5675.4	2986.6
80°	551.8	561.5	600.6	670.6	782.9	968.4	2581.4	2806.0	3572.6	2519.5	1165.4
82.5°	429.7	423.2	473.6	519.2	569.7	572.9	1059.6	1171.9	1455.1	1084.0	504.6
85°	319.0	319.0	359.7	349.9	367.8	335.3	467.1	515.9	582.7	460.6	234.4
87.5°	127.0	140.0	236.0	211.6	164.4	131.8	172.5	182.3	201.8	180.7	97.7
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°	3917.6	3917.6	3917.6	3917.6	3917.6	3917.6	3917.6	3917.6	3917.6	3917.6	3917.6
2.5°	3924.1	3929.0	3917.6	3909.5	3906.2	3901.3	3896.5	3898.1	3904.6	3911.1	3909.5
5°	3943.7	3945.3	3925.8	3916.0	3909.5	3903.0	3903.0	3907.9	3920.9	3930.6	3930.6
7.5°	3992.5	3992.5	3964.8	3946.9	3937.2	3925.8	3922.5	3924.1	3933.9	3946.9	3948.5
10°	4069.0	4062.5	4026.7	3999.0	3981.1	3953.4	3929.0	3916.0	3920.9	3929.0	3929.0
12.5°	4161.8	4143.9	4098.3	4060.9	4016.9	3964.8	3914.4	3888.3	3886.7	3894.8	3891.6
15°	4261.0	4241.5	4178.0	4109.7	4033.2	3956.7	3896.5	3859.0	3829.7	3821.6	3839.5
17.5°	4376.6	4335.9	4248.0	4153.6	4039.7	3940.4	3846.0	3769.5	3717.4	3702.8	3707.7
20°	4516.6	4462.9	4344.1	4195.9	4034.8	3881.8	3735.3	3632.8	3548.2	3522.1	3525.4
22.5°	4710.3	4617.5	4443.3	4217.1	3994.1	3771.1	3567.7	3434.2	3331.7	3291.0	3315.4
25°	4930.0	4829.1	4537.7	4212.2	3888.3	3593.7	3369.1	3195.0	3102.2	3042.0	3055.0
27.5°	5232.7	5053.7	4638.6	4168.3	3737.0	3377.3	3116.8	2952.5	2867.8	2836.9	2851.5
30°	5620.1	5345.0	4747.7	4049.5	3497.7	3103.8	2862.9	2755.5	2705.1	2666.0	2679.0
32.5°	5900.0	5550.1	4772.1	3849.3	3238.9	2854.8	2690.4	2610.7	2555.3	2517.9	2526.0
35°	6100.2	5724.3	4760.7	3603.5	2968.7	2649.7	2553.7	2488.6	2399.1	2317.7	2303.0
37.5°	6368.8	5942.4	4677.7	3334.9	2701.8	2511.4	2443.0	2322.6	2194.0	2085.0	2080.1
40°	6780.6	6197.9	4500.3	3019.2	2473.9	2408.8	2325.8	2169.6	2031.2	1943.4	1936.8
42.5°	7205.4	6433.9	4259.4	2687.2	2286.8	2301.4	2200.5	2045.9	1961.3	1904.3	1897.8
45°	7724.6	6689.4	3999.0	2399.1	2148.4	2200.5	2091.5	2001.9	1951.5	1914.1	1904.3
47.5°	8286.1	6951.5	3706.0	2140.3	2031.2	2107.7	2045.9	2005.2	1977.5	1951.5	1940.1
50°	8891.6	7244.4	3431.0	1932.0	1925.4	2011.7	2041.0	2026.4	2010.1	2001.9	1992.2
52.5°	9555.6	7543.9	3199.9	1785.5	1832.7	1943.4	2042.6	2054.0	2054.0	2049.1	2042.6
55°	10004.8	7752.2	2965.5	1666.7	1738.3	1888.0	2039.4	2083.3	2099.6	2093.1	2086.6
57.5°	10336.9	7866.2	2670.9	1564.1	1658.5	1834.3	2021.5	2086.6	2102.9	2111.0	2107.7
60°	10405.2	7760.4	2285.1	1456.7	1572.3	1756.2	1956.4	2037.8	2058.9	2109.4	2114.2
62.5°	10097.6	7434.9	1901.0	1350.9	1466.5	1637.4	1868.5	1982.4	2024.7	2102.9	2111.0
64°	9720.0	7070.3	1687.8	1284.2	1398.1	1570.6	1824.5	1967.8	2023.1	2127.3	2133.8
65°	9443.3	6805.0	1554.4	1241.9	1354.2	1526.7	1800.1	1972.6	2037.8	2164.7	2174.5
67.5°	8424.4	5891.9	1285.8	1142.6	1250.0	1451.8	1805.0	2013.3	2034.5	2179.4	2177.7
70°	6971.0	4690.7	1077.5	1051.4	1149.1	1391.6	1785.5	1948.2	1949.9	2045.9	2023.1
72.5°	5219.7	3466.8	934.2	957.0	1036.8	1248.4	1686.2	1860.3	1832.7	1845.7	1822.9
75°	3585.6	2293.3	804.0	856.1	919.6	1103.5	1546.2	1689.4	1645.5	1629.2	1612.9
77.5°	1914.1	1267.9	668.9	756.8	799.1	953.8	1349.3	1487.6	1442.1	1378.6	1357.4
80°	774.7	597.3	538.7	626.6	651.0	768.2	1123.0	1209.3	1175.1	1064.4	1028.6
82.5°	389.0	358.1	423.2	493.2	494.8	548.5	835.0	916.3	839.8	704.7	673.8
85°	203.4	210.0	291.3	346.7	306.0	296.2	501.3	555.0	509.4	442.7	398.8
87.5°	73.2	84.6	153.0	151.4	107.4	57.0	110.7	53.7	29.3	17.9	22.8
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)