

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: P652626

Luminaire Tested: **GALN-SA9B-840-U-T2R-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P652626  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA9B-840-U-T2R-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 28692.4 lumens  
Efficiency: N/A  
Efficacy: 78.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B3 - U0 - G1

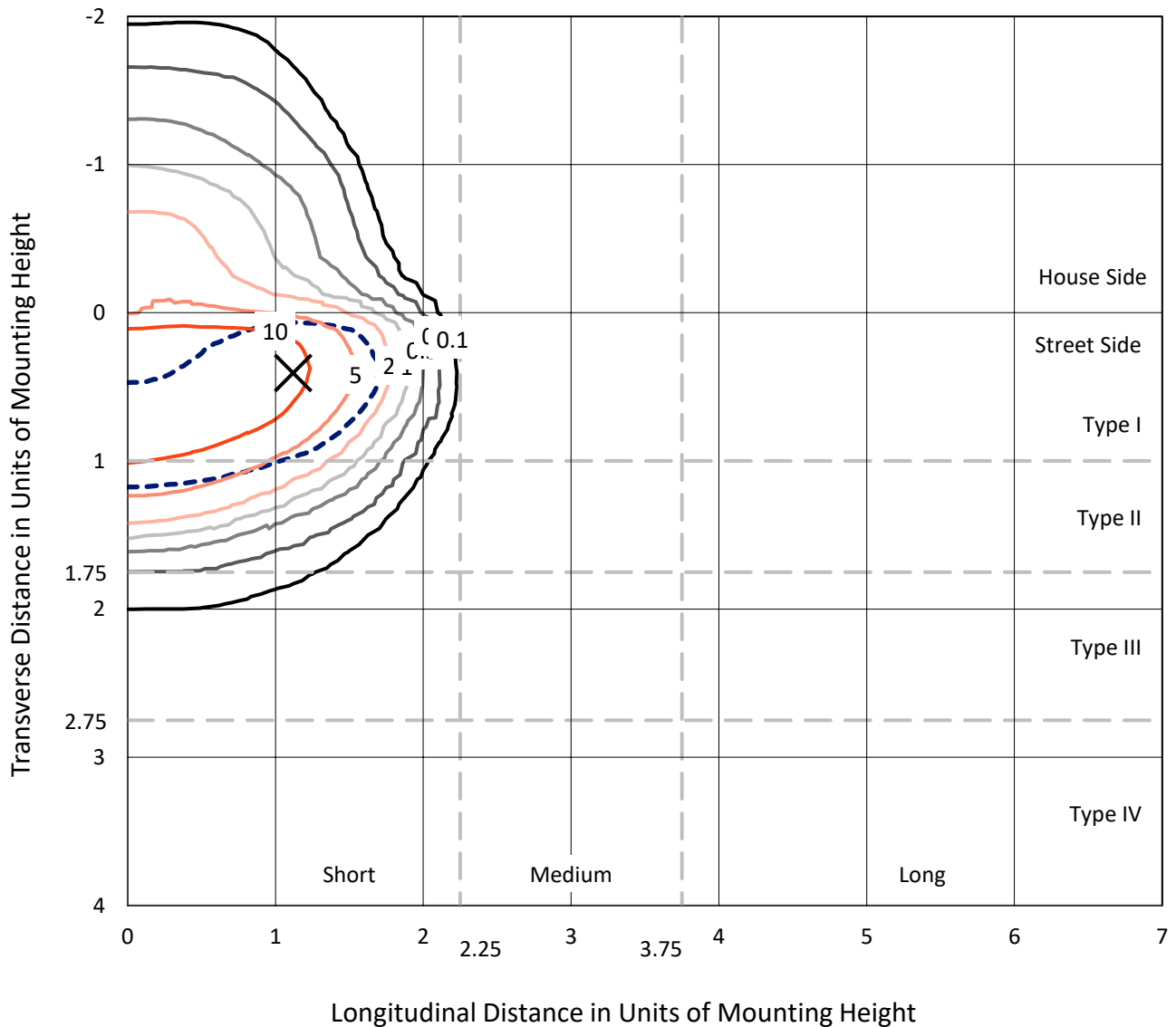
Input Watts (W): 364  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

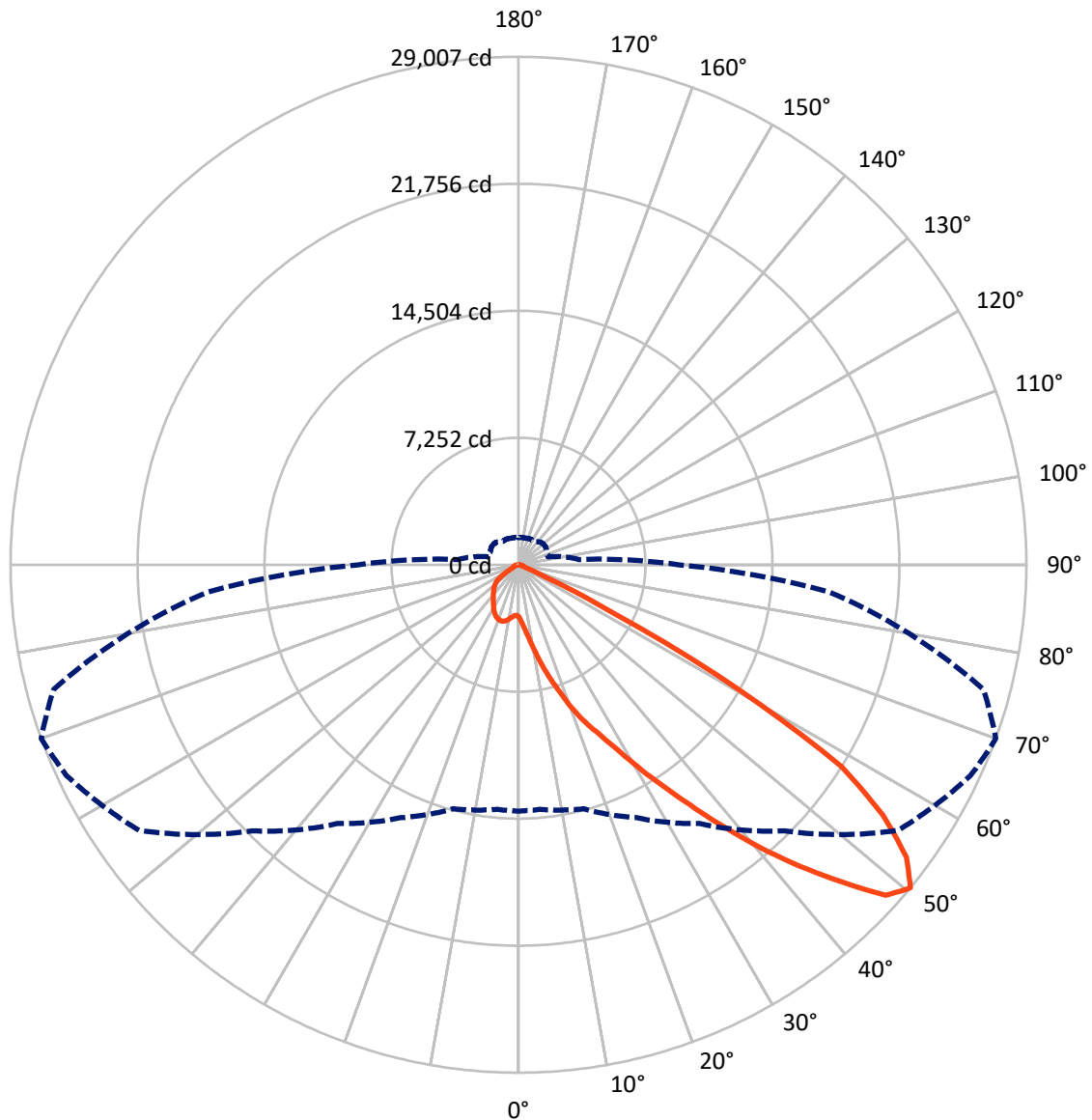
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17 fc  
 Type I - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral      - - - Horizontal Cone Through 50-Deg Vertical

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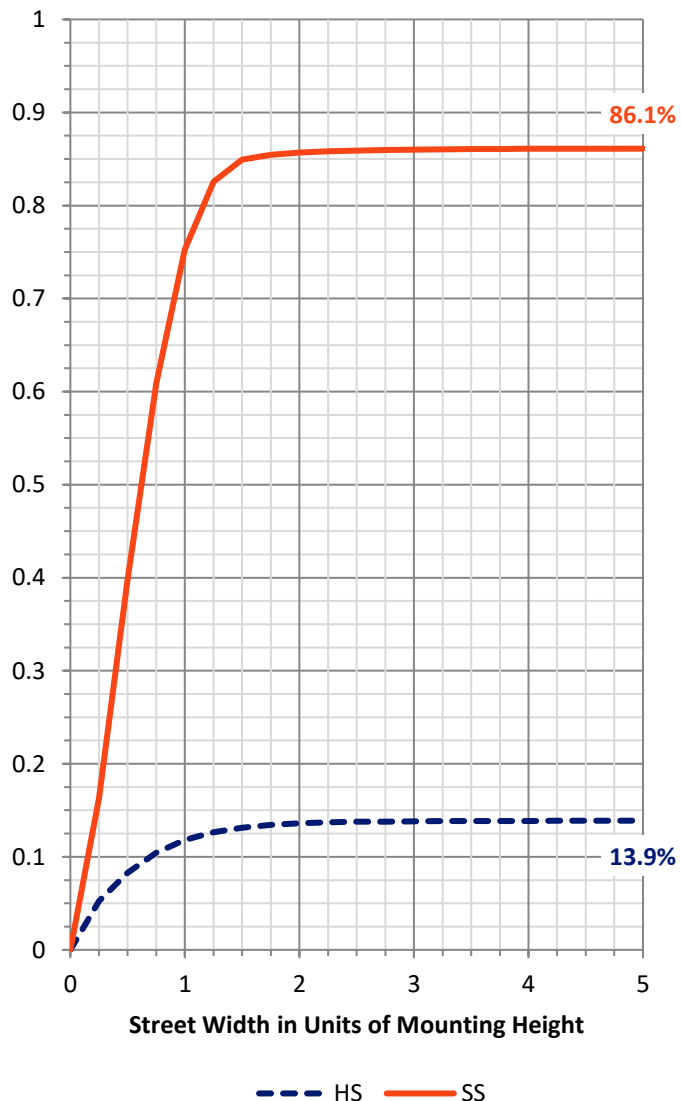
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4007.1	0.0	4007.1
	% Fixture	14.0	0.0	14.0
<b>Street Side</b>	Lumens	24685.3	0.0	24685.3
	% Fixture	86.0	0.0	86.0
<b>Total</b>	Lumens	28692.4	0.0	28692.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	386.5	1.3
10°-20°	1671.7	5.8
20°-30°	3507.0	12.2
30°-40°	6044.8	21.1
40°-50°	8834.5	30.8
50°-60°	6880.6	24.0
60°-70°	1165.8	4.1
70°-80°	160.1	0.6
80°-90°	41.5	0.1
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°	28692.4	100.0
0°-180°	28692.4	100.0

**Coefficient of Utilization**

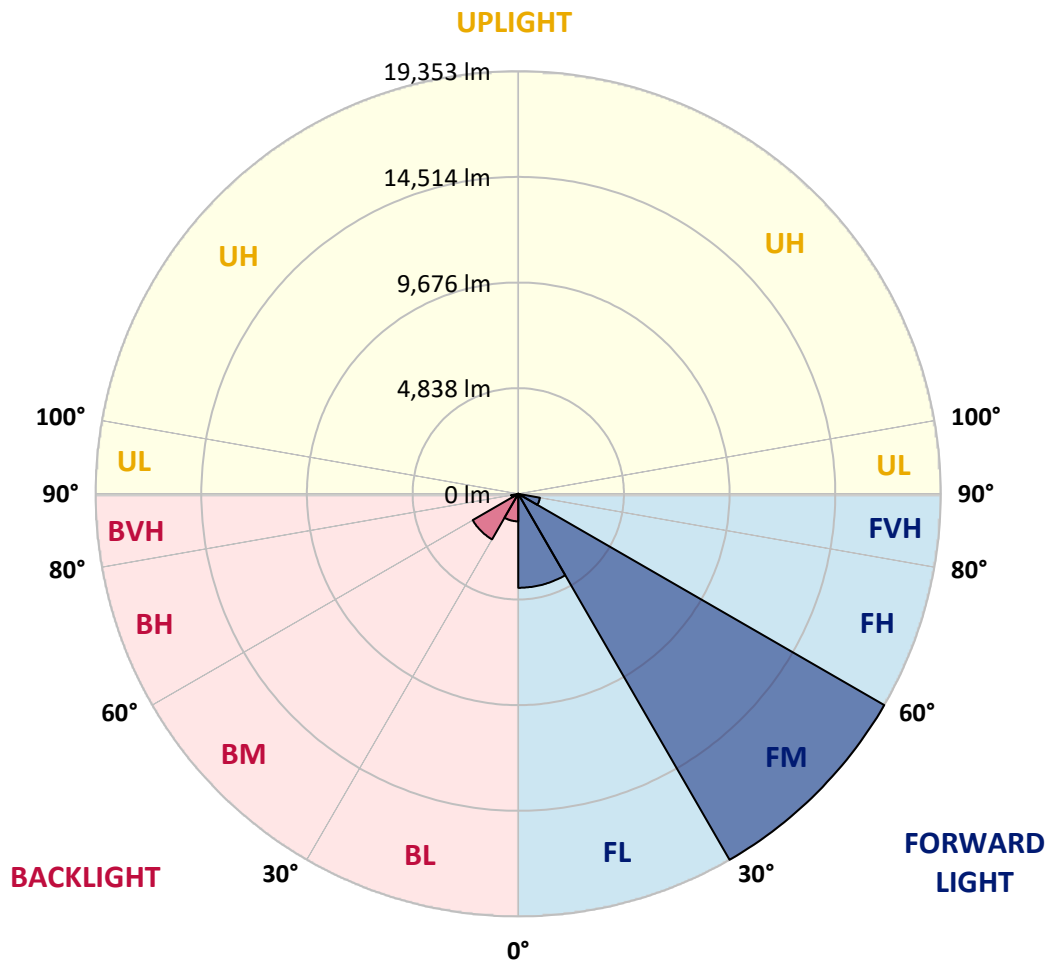


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4304.2	15.0			
FM (30°-60°)	19352.5	67.4			
FH (60°-80°)	1009.4	3.5			G1/1800
FVH (80°-90°)	19.2	0.1			G1/100
BL (0°-30°)	1260.9	4.4	B3/2500		
BM (30°-60°)	2407.3	8.4	B2/2500		
BH (60°-80°)	316.5	1.1	B1/500		G1/500
BVH (80°-90°)	22.3	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G1**  
 Type I Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	2971.9	2971.9	2971.9	2971.9	2971.9	2971.9	2971.9	2971.9	2971.9	2971.9	2971.9
2.5°	3891.9	3863.6	3802.2	3689.0	3641.9	3528.6	3462.6	3335.2	3255.0	3165.4	3066.3
5°	5481.6	5335.4	5245.7	5118.4	4745.7	4514.6	4132.4	3807.0	3656.0	3490.9	3264.4
7.5°	7123.3	7028.9	6906.3	6632.7	6378.0	5896.8	5241.0	4524.0	4217.4	3934.3	3486.2
10°	8481.9	8217.7	8203.5	8000.7	7722.4	7146.9	6359.1	5467.5	4920.3	4505.2	3802.2
12.5°	9430.1	9189.5	9298.0	9274.5	9014.9	8486.6	7576.1	6396.8	5826.0	5179.7	4127.7
15°	10293.4	10194.3	10161.3	10133.0	10029.2	9637.7	8821.6	7529.0	6703.4	5925.1	4495.6
17.5°	11137.8	10883.0	11005.7	11029.3	11019.9	10666.1	9901.8	8604.5	7632.7	6712.9	4882.5
20°	11887.9	11911.4	11746.3	11713.4	11685.0	11670.9	10925.5	9670.7	8774.4	7538.4	5387.3
22.5°	12850.2	12685.1	12831.4	12737.0	12553.0	12439.8	11869.0	10614.2	9765.0	8533.8	5901.5
25°	13987.1	14119.2	13774.8	13737.1	13534.2	13142.7	12628.5	11670.9	10718.0	9458.4	6458.1
27.5°	15388.2	15157.0	15067.4	14859.8	14491.9	14326.8	13722.9	12760.6	11869.0	10430.2	6995.9
30°	16591.2	16529.8	16081.7	15836.4	15515.5	15510.8	14666.5	14237.1	13369.1	11953.9	7736.5
32.5°	17572.4	17303.5	17138.3	16968.5	16709.1	16779.8	16067.5	15841.1	14968.4	13369.1	8609.2
35°	18228.1	18034.7	17935.6	17676.1	17600.6	17916.7	17619.5	17525.2	16808.1	15359.9	9633.0
37.5°	18435.6	18497.0	18478.1	18152.6	18312.9	19166.8	19549.0	19303.6	18926.3	17459.2	10741.5
40°	18619.6	18662.0	18567.7	18949.8	19407.4	20379.2	21761.4	21355.7	21214.2	19586.7	12284.2
42.5°	18723.4	18690.4	18690.4	19350.8	20044.3	21997.3	23898.4	23629.5	23521.0	21851.0	14067.3
45°	18275.3	17954.4	18298.8	19195.2	20591.5	22794.5	25606.1	25978.7	25823.1	24544.7	16152.4
47.5°	16600.6	16798.7	16992.1	18190.3	19926.3	22549.2	26653.4	27922.4	28210.1	26809.1	17520.5
50°	14067.3	14024.9	14425.8	15935.4	18044.1	21492.5	26450.5	28483.7	29007.4	27488.3	17808.2
52.5°	10232.0	10543.4	10977.4	12477.6	14977.8	18756.4	23832.3	27035.5	27733.7	26653.4	17619.5
55°	5958.1	5613.7	6590.2	7859.2	10217.9	14147.5	20148.1	23964.5	25257.0	25134.4	16666.6
57.5°	2387.0	2311.5	2646.5	3566.3	5330.7	8769.7	14652.2	19690.5	21761.4	23020.9	14647.5
60°	1047.3	1023.7	1203.0	1453.0	2179.5	4042.9	8014.9	12246.4	14407.0	16086.4	10081.1
62.5°	754.8	745.4	834.9	924.6	1151.1	1759.6	3368.2	4934.4	6151.5	7429.9	4514.6
65°	608.5	632.1	693.5	740.7	849.2	976.5	1188.8	1372.8	1684.1	1745.4	995.4
67.5°	495.3	514.2	570.8	622.7	641.6	528.3	547.2	481.1	481.1	429.2	344.4
70°	363.2	367.9	434.0	495.3	396.3	212.3	372.6	372.6	335.0	320.8	292.5
72.5°	268.9	273.6	325.5	306.6	155.7	132.1	273.6	301.9	273.6	259.4	235.9
75°	198.1	202.8	169.8	70.7	66.0	84.9	160.4	207.6	198.1	193.4	179.3
77.5°	37.8	28.3	23.5	33.1	47.2	70.7	103.8	127.4	132.1	141.5	132.1
80°	4.7	4.7	14.1	28.3	51.9	75.4	108.5	122.6	127.4	132.1	122.6
82.5°	0.0	4.7	14.1	28.3	51.9	70.7	94.4	108.5	117.9	122.6	117.9
85°	0.0	4.7	9.4	23.5	42.5	51.9	47.2	33.1	28.3	33.1	23.5
87.5°	0.0	0.0	4.7	4.7	9.4	9.4	9.4	9.4	9.4	9.4	9.4
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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CATALOG NUMBER: GALN-SA9B-840-U-T2R-GRSBK

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2971.9	2971.9	2971.9	2971.9	2971.9	2971.9	2971.9	2971.9	2971.9	2971.9	2971.9
2.5°	3009.7	2990.8	2924.8	2854.0	2792.7	2821.1	2792.7	2769.2	2778.6	2769.2	2759.7
5°	3174.8	3089.9	2948.4	2887.1	2835.2	2830.5	2816.3	2811.5	2816.3	2816.3	2773.9
7.5°	3330.5	3193.7	3042.7	2976.7	2915.3	2920.0	2887.1	2887.1	2882.4	2858.7	2849.3
10°	3566.3	3382.4	3189.0	3071.0	2995.6	2981.4	2948.4	2915.3	2915.3	2915.3	2868.1
12.5°	3825.8	3594.7	3330.5	3193.7	3104.0	3033.3	2981.4	2971.9	2920.0	2910.6	2887.1
15°	4052.3	3759.8	3424.8	3236.2	3122.9	3028.6	2948.4	2896.5	2872.9	2858.7	2839.9
17.5°	4274.0	3901.3	3476.7	3236.2	3113.5	3005.0	2920.0	2872.9	2816.3	2825.8	2788.0
20°	4571.2	4052.3	3490.9	3174.8	3023.9	2920.0	2806.8	2783.3	2750.2	2722.0	2731.4
22.5°	4859.0	4160.8	3448.4	3099.3	2882.4	2759.7	2703.1	2674.8	2660.6	2637.0	2604.0
25°	5118.4	4278.7	3382.4	2962.5	2731.4	2641.7	2589.9	2585.1	2552.1	2552.1	2490.8
27.5°	5382.6	4321.1	3269.1	2802.1	2599.3	2547.4	2523.8	2514.3	2500.2	2467.2	2424.8
30°	5684.5	4335.3	3104.0	2637.0	2481.4	2424.8	2457.7	2481.4	2420.1	2358.7	2377.6
32.5°	5934.5	4302.3	2905.9	2481.4	2396.4	2368.2	2434.2	2457.7	2387.0	2321.0	2287.9
35°	6236.4	4222.1	2712.5	2358.7	2311.5	2368.2	2424.8	2424.8	2283.2	2203.0	2184.2
37.5°	6694.0	4132.4	2533.3	2254.9	2221.9	2339.8	2415.4	2363.5	2141.7	2042.6	2019.1
40°	7184.6	4075.8	2358.7	2151.1	2174.7	2292.7	2335.1	2174.7	1948.3	1887.0	1868.1
42.5°	7896.9	3962.6	2203.0	2061.5	2132.3	2226.6	2226.6	1938.8	1853.9	1820.9	1816.2
45°	8783.8	3882.4	2066.3	1986.0	2071.0	2094.5	2019.1	1816.2	1754.9	1745.4	1750.1
47.5°	9217.8	3726.7	1924.7	1896.4	1957.8	1962.5	1764.3	1717.2	1665.3	1651.1	1641.6
50°	9151.8	3448.4	1740.7	1778.5	1863.4	1816.2	1608.7	1618.1	1570.9	1566.2	1542.6
52.5°	8689.5	3009.7	1556.8	1646.3	1740.7	1604.0	1481.3	1471.8	1471.8	1410.5	1386.9
55°	7703.6	2424.8	1335.0	1448.3	1561.5	1349.2	1316.2	1306.7	1283.1	1226.5	1212.4
57.5°	6099.6	1778.5	1004.8	1127.4	1325.6	1146.4	1141.6	1099.2	1037.8	995.4	995.4
60°	3627.7	1023.7	632.1	688.8	877.4	929.3	1033.1	1014.2	910.5	844.4	825.5
62.5°	1655.8	528.3	401.0	410.4	471.7	603.8	811.4	938.7	792.6	679.3	669.9
65°	556.7	391.6	330.2	316.0	325.5	363.2	485.9	665.1	632.1	523.6	504.8
67.5°	339.7	349.1	311.3	287.8	287.8	283.1	278.3	301.9	372.6	363.2	367.9
70°	292.5	320.8	287.8	259.4	250.0	235.9	198.1	165.1	141.5	165.1	174.5
72.5°	235.9	254.7	245.3	221.7	198.1	179.3	141.5	108.5	80.2	70.7	70.7
75°	174.5	188.7	198.1	169.8	151.0	127.4	103.8	70.7	42.5	28.3	28.3
77.5°	127.4	141.5	146.2	132.1	113.2	89.7	66.0	47.2	23.5	9.4	9.4
80°	108.5	127.4	141.5	132.1	117.9	84.9	61.3	33.1	18.8	4.7	4.7
82.5°	103.8	127.4	141.5	127.4	113.2	80.2	61.3	37.8	14.1	4.7	4.7
85°	23.5	33.1	42.5	51.9	61.3	61.3	47.2	28.3	14.1	4.7	4.7
87.5°	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	4.7	4.7	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)