

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: P648117

Luminaire Tested: **GALN-SA8A-835-U-T2R-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P648117  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA8A-835-U-T2R-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 25408.3 lumens  
Efficiency: N/A  
Efficacy: 104.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

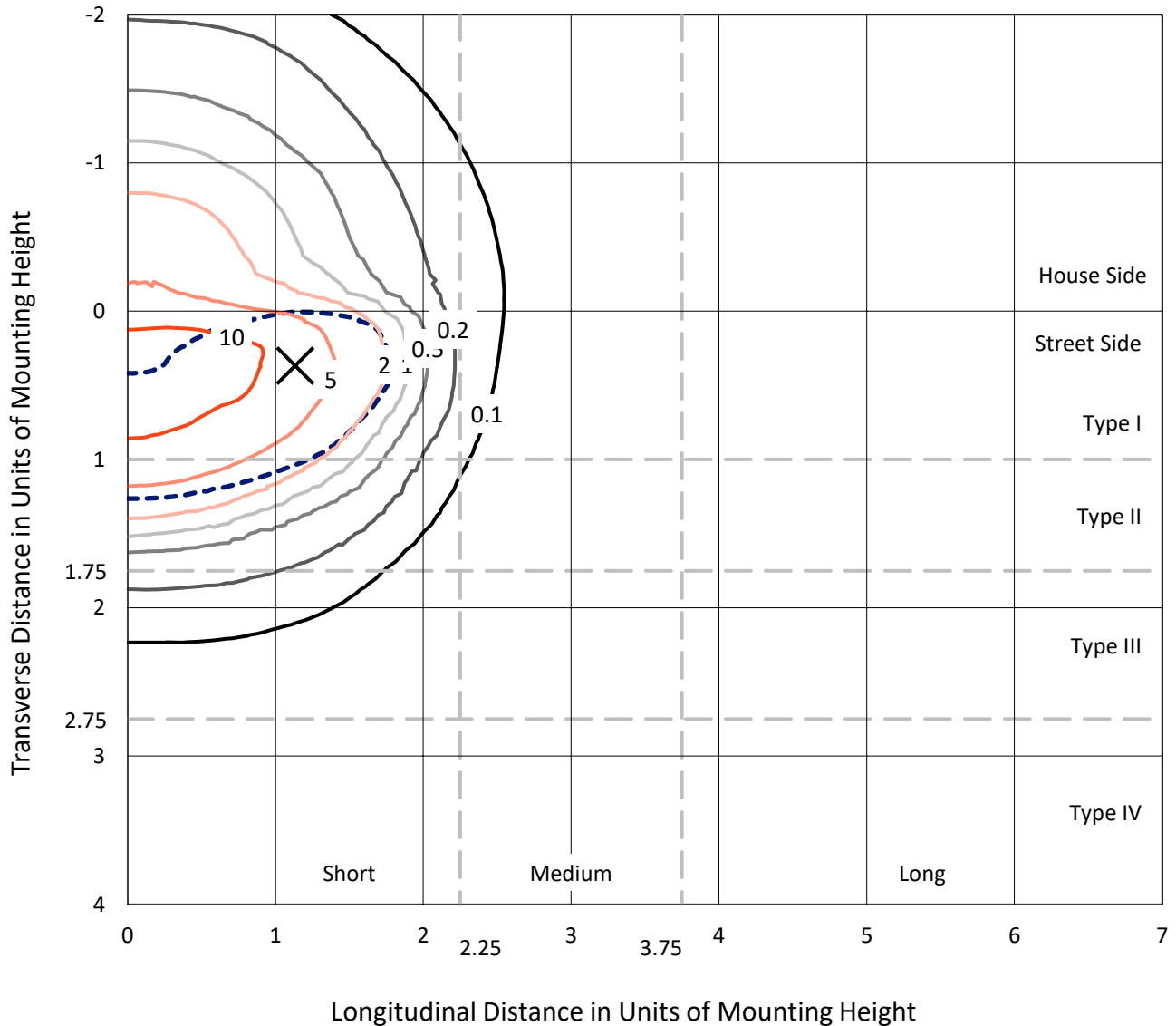
Input Watts (W): 244  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

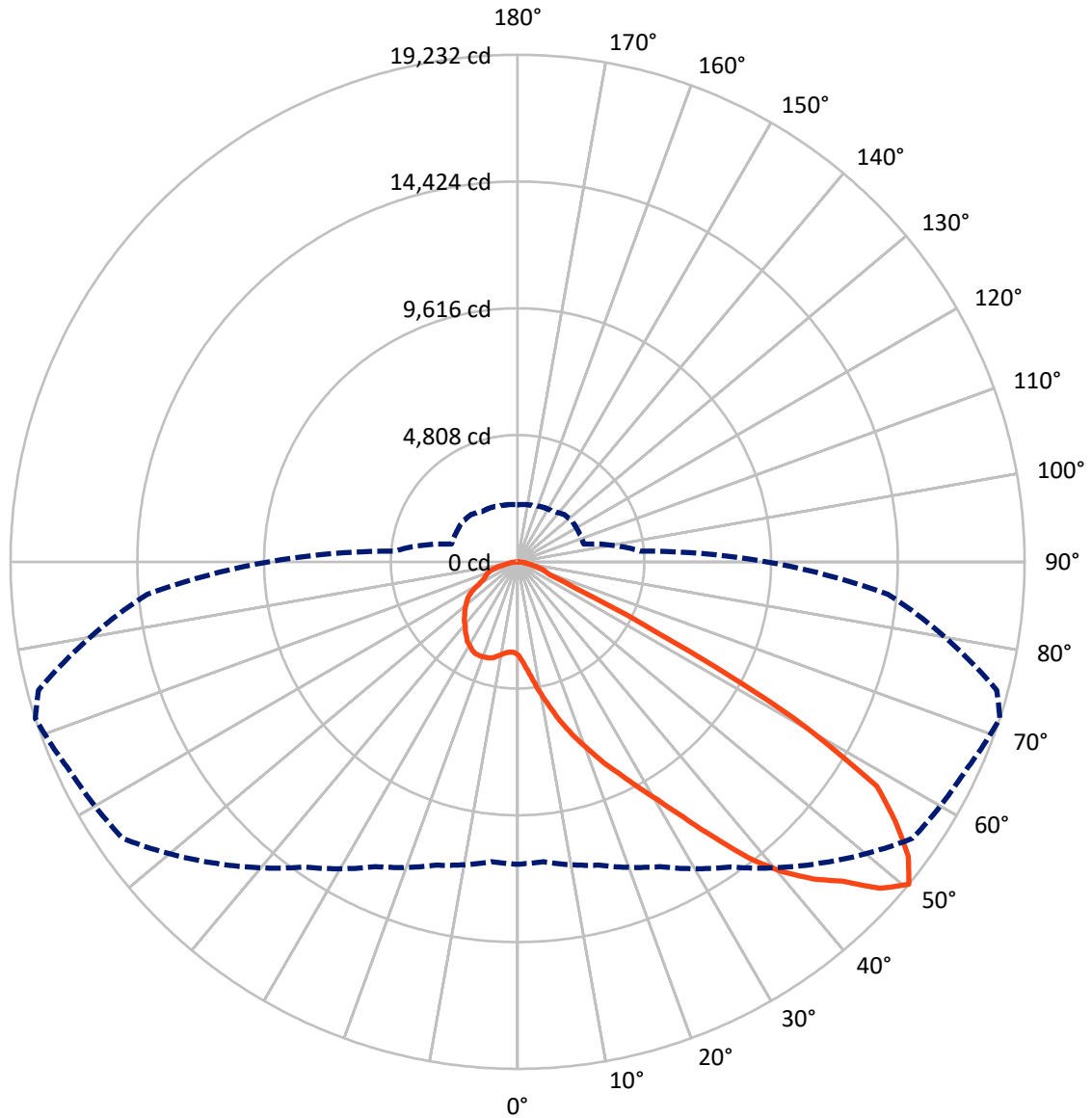
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.6 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral      - - - Horizontal Cone Through 50-Deg Vertical

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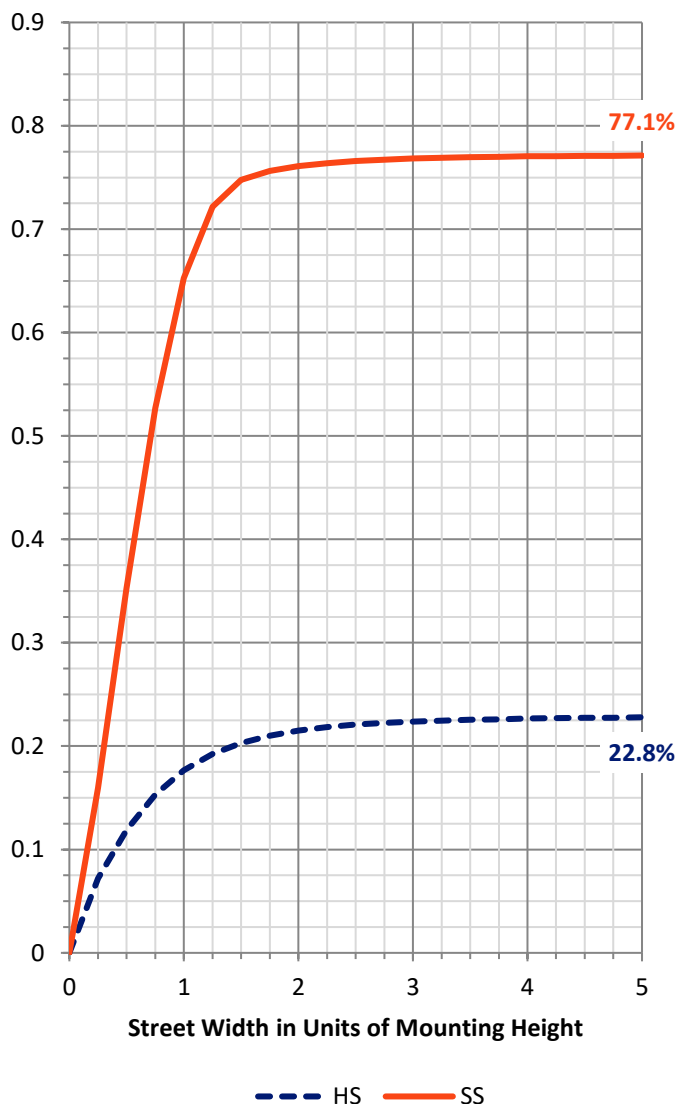
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5821.2	0.0	5821.2
	% Fixture	22.9	0.0	22.9
<b>Street Side</b>	Lumens	19587.1	0.0	19587.1
	% Fixture	77.1	0.0	77.1
<b>Total</b>	Lumens	25408.3	0.0	25408.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	416.0	1.6
10°-20°	1555.3	6.1
20°-30°	3015.7	11.9
30°-40°	4995.9	19.7
40°-50°	6990.4	27.5
50°-60°	5897.3	23.2
60°-70°	1797.5	7.1
70°-80°	630.6	2.5
80°-90°	109.6	0.4
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°	25408.3	100.0
0°-180°	25408.3	100.0

**Coefficient of Utilization**



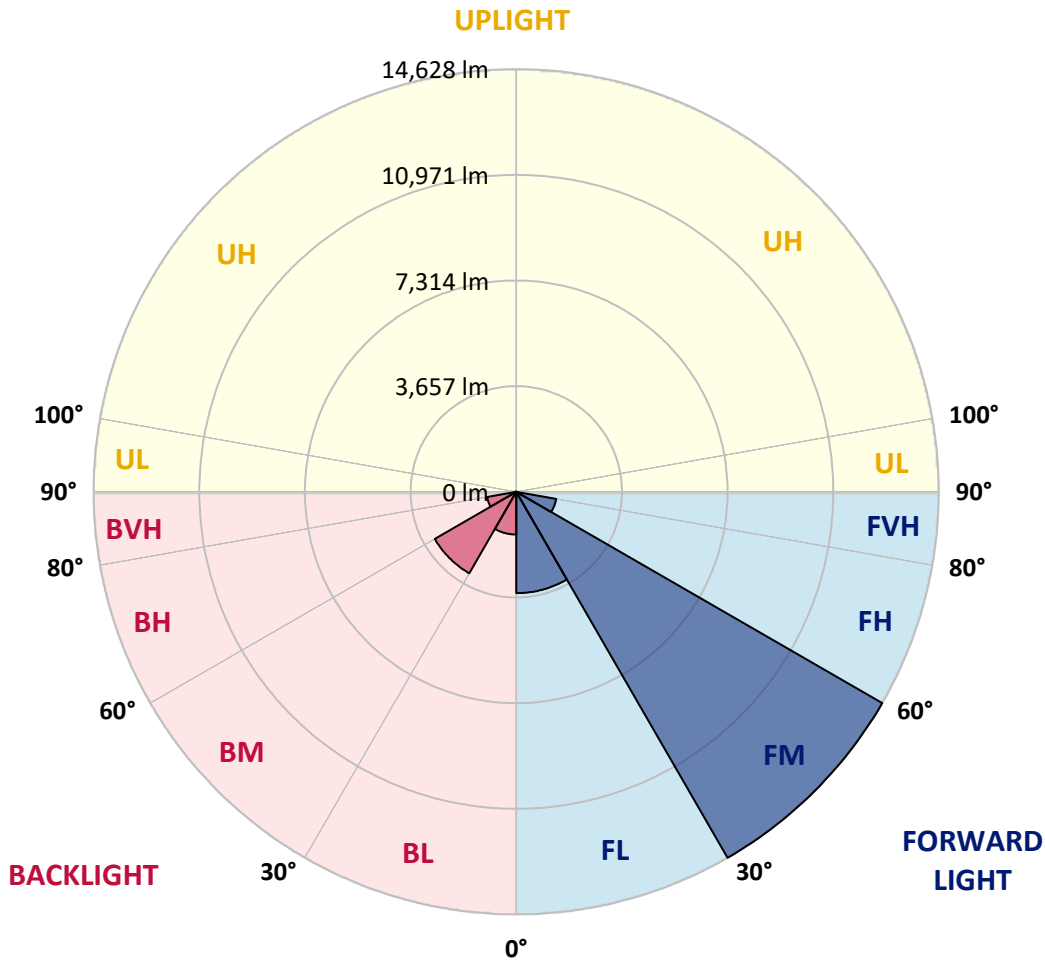
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3507.3	13.8			
FM (30°-60°)	14628.3	57.6			
FH (60°-80°)	1402.5	5.5			G1/1800
FVH (80°-90°)	49.1	0.2			G1/100
BL (0°-30°)	1479.8	5.8	B3/2500		
BM (30°-60°)	3255.3	12.8	B3/5000		
BH (60°-80°)	1025.6	4.0	B3/2500		G3/2500
BVH (80°-90°)	60.5	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	3537.0	3537.0	3537.0	3537.0	3537.0	3537.0	3537.0	3537.0	3537.0	3537.0	3537.0
2.5°	4549.5	4521.1	4436.2	4408.0	4307.4	4125.0	4062.1	3876.6	3798.0	3725.7	3640.8
5°	5753.6	5621.5	5612.2	5451.8	5219.2	5083.9	4681.5	4411.1	4162.7	4037.0	3804.3
7.5°	6520.7	6523.9	6523.9	6391.9	6206.4	5863.7	5502.1	5014.8	4640.6	4455.1	4059.0
10°	7250.2	7187.3	7152.7	7140.2	7014.3	6681.1	6294.4	5690.8	5178.3	4961.3	4250.8
12.5°	7765.8	7712.4	7790.9	7750.1	7658.9	7441.9	7077.2	6388.7	5747.3	5454.9	4558.9
15°	8011.0	8048.8	8111.6	8224.9	8184.0	8102.2	7699.8	7105.6	6360.4	6030.3	4832.4
17.5°	8388.4	8284.6	8360.0	8501.5	8614.7	8577.0	8347.5	7624.3	6967.2	6561.6	5200.3
20°	8652.5	8592.7	8630.5	8794.0	8878.8	9092.6	8973.1	8303.5	7548.9	7121.3	5634.2
22.5°	9407.0	9319.0	9196.3	9221.5	9252.9	9403.8	9432.2	9048.6	8224.9	7772.1	6046.0
25°	10337.6	10255.9	10111.3	9963.5	9872.3	9844.0	9941.5	9633.4	8872.5	8404.0	6489.3
27.5°	11362.6	11224.3	11133.1	10828.1	10582.9	10545.1	10498.0	10331.4	9639.7	9133.5	6989.2
30°	12359.3	12249.3	12126.6	11639.3	11384.6	11343.7	11111.1	11158.2	10472.9	9910.0	7555.2
32.5°	13113.8	13123.2	12843.5	12475.6	12236.6	12019.7	11934.8	12070.0	11541.8	11089.1	8187.1
35°	13723.8	13752.1	13484.8	13151.6	12893.7	13044.7	13007.0	13069.8	12818.3	12264.9	8922.8
37.5°	14318.0	14176.5	13890.4	13730.1	13594.9	13843.3	14163.9	14217.4	14264.5	13613.8	9778.0
40°	14415.5	14428.0	14261.4	14374.6	14204.8	14579.0	15324.1	15255.0	15446.7	14877.6	10705.5
42.5°	14277.1	14305.4	14371.5	14531.8	14940.5	15390.1	16496.9	16213.9	16446.5	15940.3	11607.8
45°	14050.8	13934.4	14016.2	14626.1	15333.6	16333.4	17569.0	17348.9	17273.4	16849.0	12683.1
47.5°	12969.2	13088.7	13343.3	14094.8	15157.5	16496.9	18329.8	18279.5	18505.9	18207.2	13660.9
50°	11469.5	11422.3	11912.8	12758.6	14129.4	16176.2	18288.9	18744.9	19232.2	18817.1	14097.9
52.5°	8589.6	8841.1	9262.3	10312.5	12268.1	14428.0	17396.1	18156.9	18553.0	18465.0	13745.8
55°	5429.8	5505.3	5759.9	7008.1	8768.7	11579.6	14912.2	16676.0	17383.5	17713.6	13422.0
57.5°	2637.8	2496.4	2807.6	3810.6	5065.1	7787.8	11500.9	14525.5	16062.9	16660.4	12717.7
60°	1377.1	1430.5	1553.2	1911.6	2619.0	4043.3	7168.4	9680.5	12029.2	12947.2	9639.7
62.5°	1141.3	1160.2	1241.9	1421.1	1741.8	2326.6	3659.7	4719.2	6134.0	6960.9	5483.2
65°	968.3	977.8	1065.8	1185.3	1389.7	1638.0	1883.3	1971.4	2386.3	2449.2	1949.3
67.5°	808.1	817.5	911.8	1024.9	1157.0	1223.0	1285.9	1279.7	1326.8	1307.9	1304.8
70°	622.5	632.0	729.4	848.9	914.9	877.2	1072.1	1116.2	1135.0	1150.7	1175.9
72.5°	449.6	468.5	544.0	628.8	594.2	682.2	883.5	949.5	974.7	984.1	1015.6
75°	327.0	333.2	352.1	327.0	377.2	474.7	622.5	704.2	735.7	745.1	792.3
77.5°	144.6	147.8	150.9	188.6	242.1	295.5	371.0	437.0	481.1	493.6	506.2
80°	75.5	78.6	97.5	128.9	172.9	217.0	270.4	308.1	336.4	339.6	352.1
82.5°	47.1	50.3	69.1	91.1	122.6	160.4	198.1	229.5	251.5	254.6	257.8
85°	22.0	28.3	40.9	56.6	81.7	103.7	106.9	91.1	97.5	100.6	94.4
87.5°	6.3	9.4	12.6	9.4	12.6	12.6	15.7	18.9	18.9	18.9	22.0
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°	3537.0	3537.0	3537.0	3537.0	3537.0	3537.0	3537.0	3537.0	3537.0	3537.0	3537.0
2.5°	3593.7	3565.4	3455.3	3414.4	3307.5	3326.4	3269.8	3266.7	3254.1	3250.9	3247.8
5°	3681.7	3593.7	3461.6	3361.0	3301.3	3294.9	3254.1	3254.1	3266.7	3276.1	3254.1
7.5°	3826.3	3725.7	3502.4	3408.2	3354.7	3345.3	3316.9	3294.9	3323.3	3313.8	3288.7
10°	3992.9	3816.9	3581.1	3499.3	3411.3	3389.3	3389.3	3398.7	3351.6	3367.3	3342.2
12.5°	4178.5	3942.6	3681.7	3587.4	3483.6	3471.0	3464.8	3395.6	3420.7	3408.2	3345.3
15°	4414.2	4087.3	3810.6	3650.3	3562.2	3505.6	3423.9	3411.3	3395.6	3364.2	3335.8
17.5°	4669.0	4244.5	3870.3	3669.1	3537.0	3496.2	3433.3	3367.3	3320.2	3326.4	3304.4
20°	4885.8	4389.1	3892.4	3688.0	3518.2	3439.6	3342.2	3301.3	3250.9	3247.8	3244.7
22.5°	5143.7	4584.0	3923.8	3637.7	3461.6	3379.8	3313.8	3241.5	3206.9	3162.9	3184.9
25°	5451.8	4659.5	3930.0	3609.4	3420.7	3276.1	3241.5	3162.9	3150.3	3087.4	3100.1
27.5°	5675.0	4700.3	3879.8	3521.3	3326.4	3216.3	3153.5	3096.9	3074.9	3027.7	3015.2
30°	5973.7	4763.2	3772.9	3411.3	3232.1	3109.4	3071.7	3059.2	2996.3	2946.0	2939.7
32.5°	6313.3	4804.1	3703.7	3298.1	3134.6	3040.3	3059.2	2999.4	2920.8	2876.8	2864.2
35°	6583.6	4819.8	3530.8	3169.2	3068.6	3008.8	2986.8	2974.3	2861.1	2820.2	2788.8
37.5°	6995.5	4785.2	3386.2	3078.1	2996.3	2974.3	2955.4	2870.6	2741.6	2681.9	2637.8
40°	7476.6	4775.8	3200.7	2949.1	2927.1	2952.3	2895.7	2763.6	2584.4	2518.4	2487.0
42.5°	7938.8	4841.8	3084.3	2880.0	2851.7	2861.1	2782.5	2584.4	2496.4	2458.6	2408.4
45°	8712.2	4980.2	2892.6	2773.1	2760.5	2754.2	2659.9	2452.4	2402.1	2354.9	2345.5
47.5°	9410.2	4889.0	2769.9	2663.0	2675.6	2641.0	2439.7	2373.7	2317.1	2270.0	2254.3
50°	9451.0	4672.1	2597.0	2578.1	2581.2	2521.5	2329.7	2285.7	2213.4	2182.0	2160.0
52.5°	9237.2	4316.8	2436.6	2443.0	2452.4	2354.9	2194.5	2163.1	2103.4	2059.4	2046.8
55°	8636.7	3763.4	2279.5	2304.6	2329.7	2144.2	2094.0	2015.4	1968.1	1905.3	1908.4
57.5°	7608.6	3030.8	2059.4	2100.2	2153.6	1949.3	1911.6	1814.1	1744.9	1694.6	1688.4
60°	5099.7	2156.9	1729.3	1744.9	1864.4	1782.7	1779.5	1682.0	1587.8	1543.8	1518.6
62.5°	3008.8	1647.5	1493.4	1477.7	1474.5	1521.8	1600.3	1565.8	1443.1	1358.2	1383.4
65°	1575.2	1424.3	1389.7	1336.2	1304.8	1292.2	1351.9	1367.7	1285.9	1194.7	1188.4
67.5°	1323.7	1323.7	1295.3	1276.4	1232.4	1179.0	1141.3	1091.0	1078.4	1053.3	1021.8
70°	1204.2	1235.6	1226.2	1182.2	1144.4	1084.7	987.2	905.5	826.8	798.6	817.5
72.5°	1050.1	1081.6	1081.6	1059.6	1009.2	918.1	823.7	729.4	663.4	613.1	606.8
75°	808.1	823.7	861.5	836.3	770.3	713.7	616.2	518.7	455.9	408.7	399.3
77.5°	515.6	540.7	540.7	537.6	490.5	437.0	374.1	305.0	257.8	223.2	213.8
80°	342.7	358.5	371.0	358.5	327.0	286.1	239.0	191.8	157.2	128.9	122.6
82.5°	251.5	270.4	279.8	267.2	235.8	204.4	169.8	135.2	100.6	78.6	72.3
85°	97.5	100.6	113.2	135.2	132.0	128.9	103.7	75.5	56.6	40.9	37.7
87.5°	25.1	22.0	25.1	25.1	22.0	18.9	18.9	18.9	18.9	9.4	12.6
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)