

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: P532064

Luminaire Tested: **GALN-SA7B-827-U-T2R-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P532064  
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-SA7B-827-U-T2R-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 80 CRI, 2700K, 800mA 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: 25602 lumens  
Efficiency: N/A  
Efficacy: 89.5 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

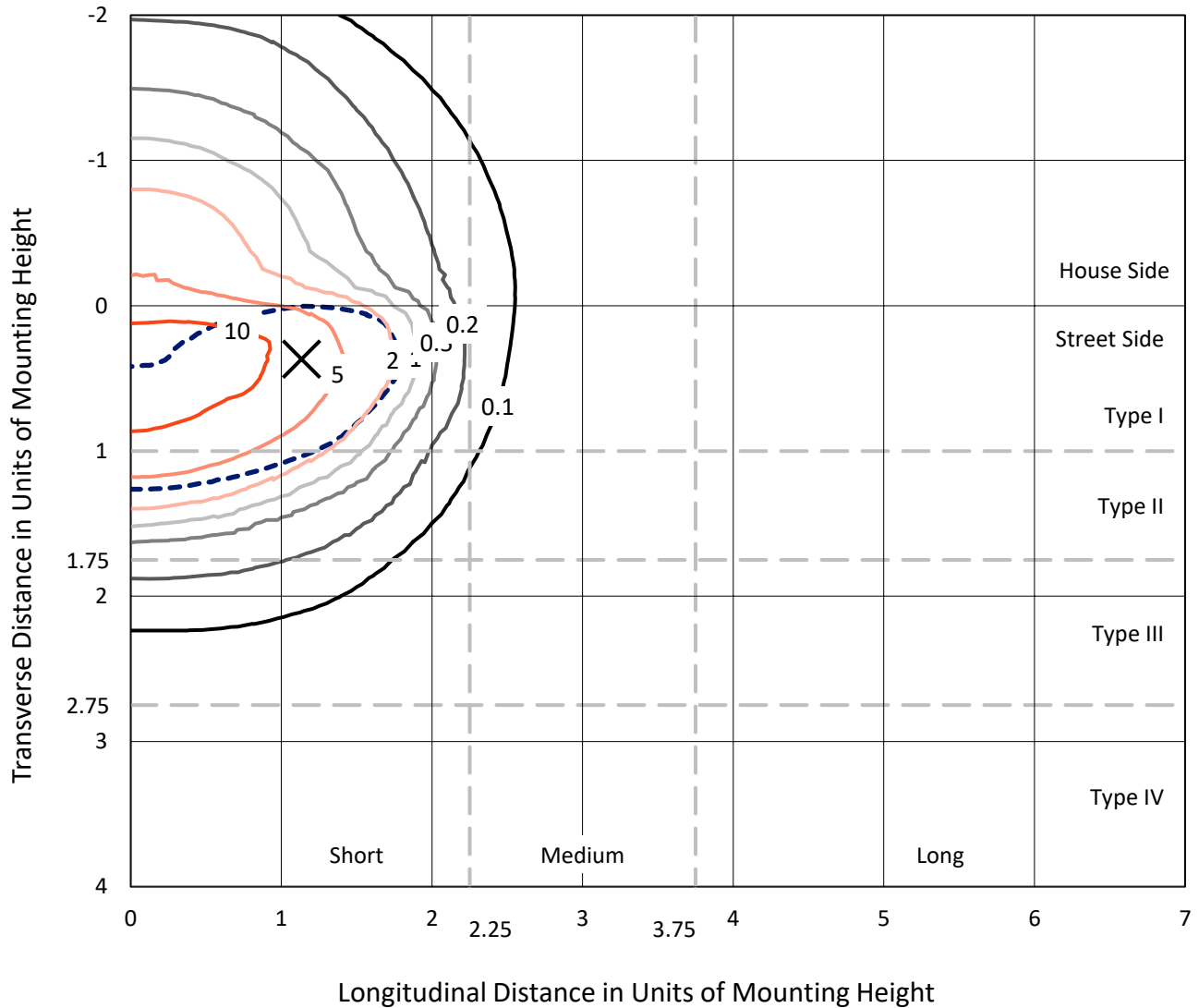
Input Watts (W): 286  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

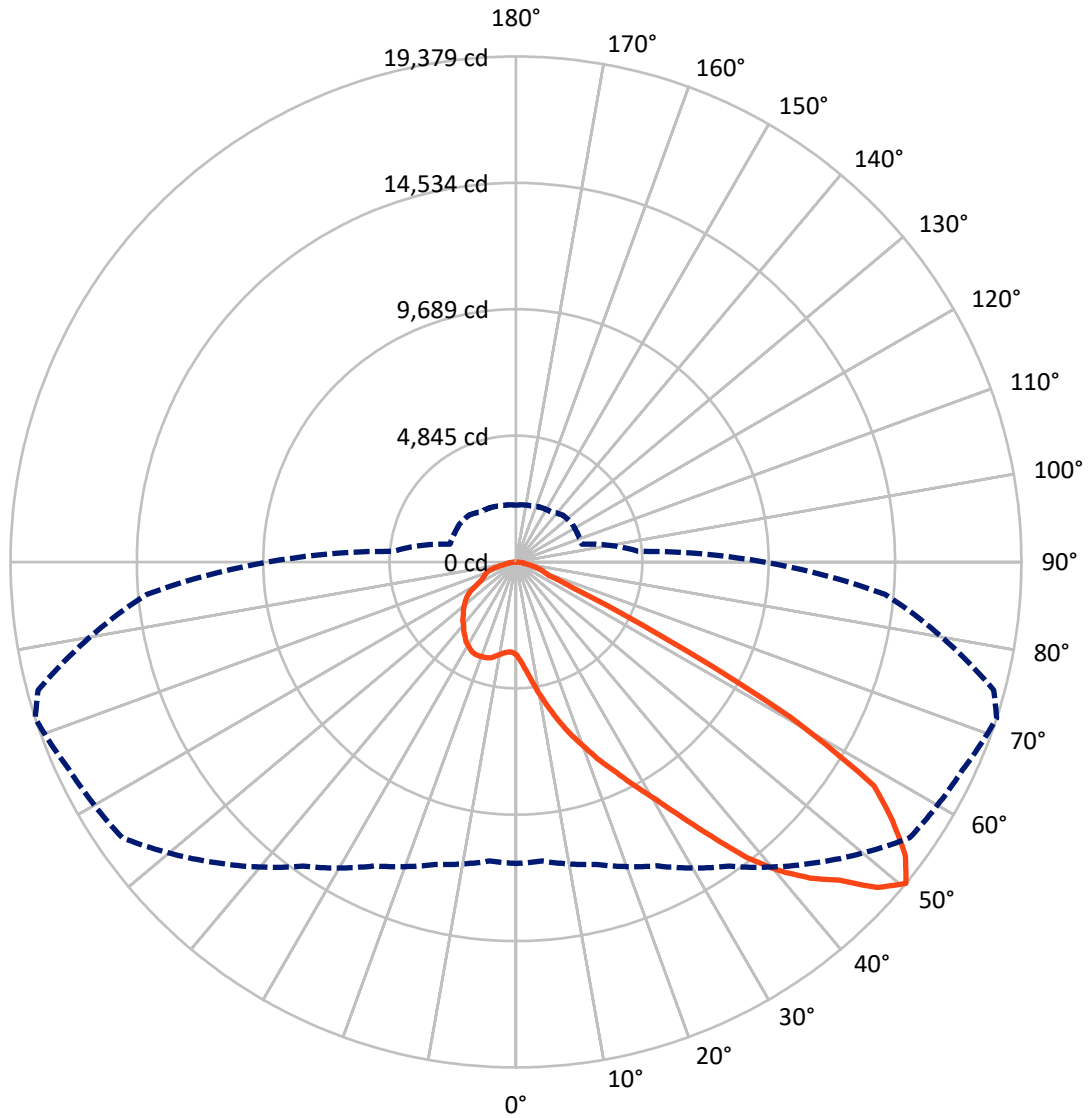
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.7 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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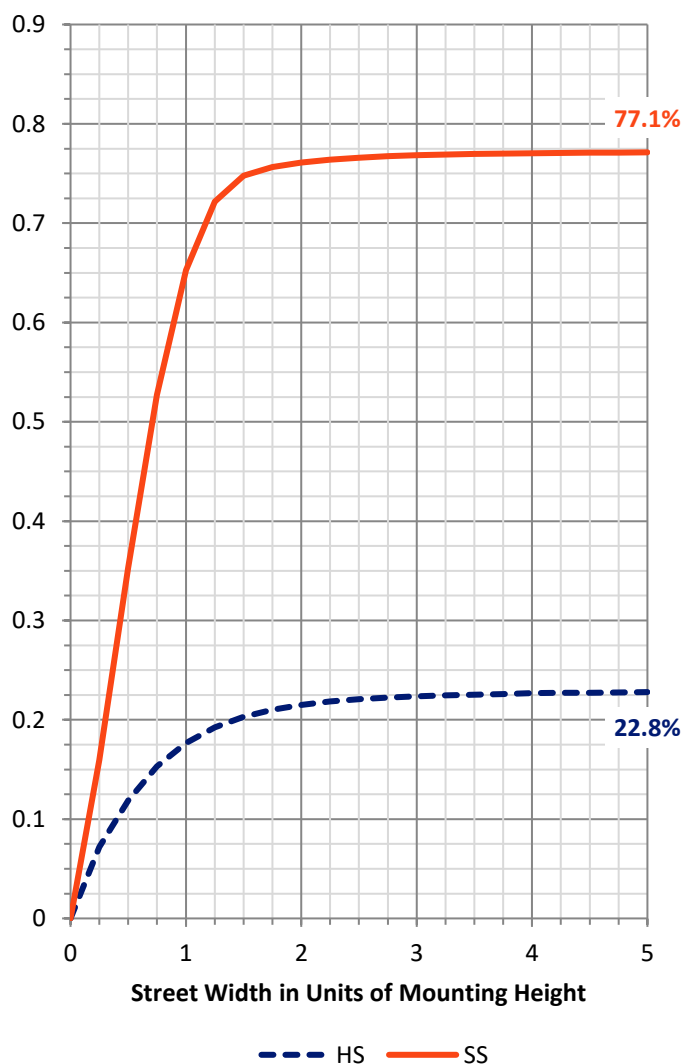
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5865.6	0.0	5865.6
	% Fixture	22.9	0.0	22.9
<b>Street Side</b>	Lumens	19736.4	0.0	19736.4
	% Fixture	77.1	0.0	77.1
<b>Total</b>	Lumens	25602.0	0.0	25602.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	419.2	1.6
10°-20°	1567.2	6.1
20°-30°	3038.7	11.9
30°-40°	5034.0	19.7
40°-50°	7043.7	27.5
50°-60°	5942.2	23.2
60°-70°	1811.2	7.1
70°-80°	635.4	2.5
80°-90°	110.5	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°	25602.0	100.0
0°-180°	25602.0	100.0

**Coefficient of Utilization**



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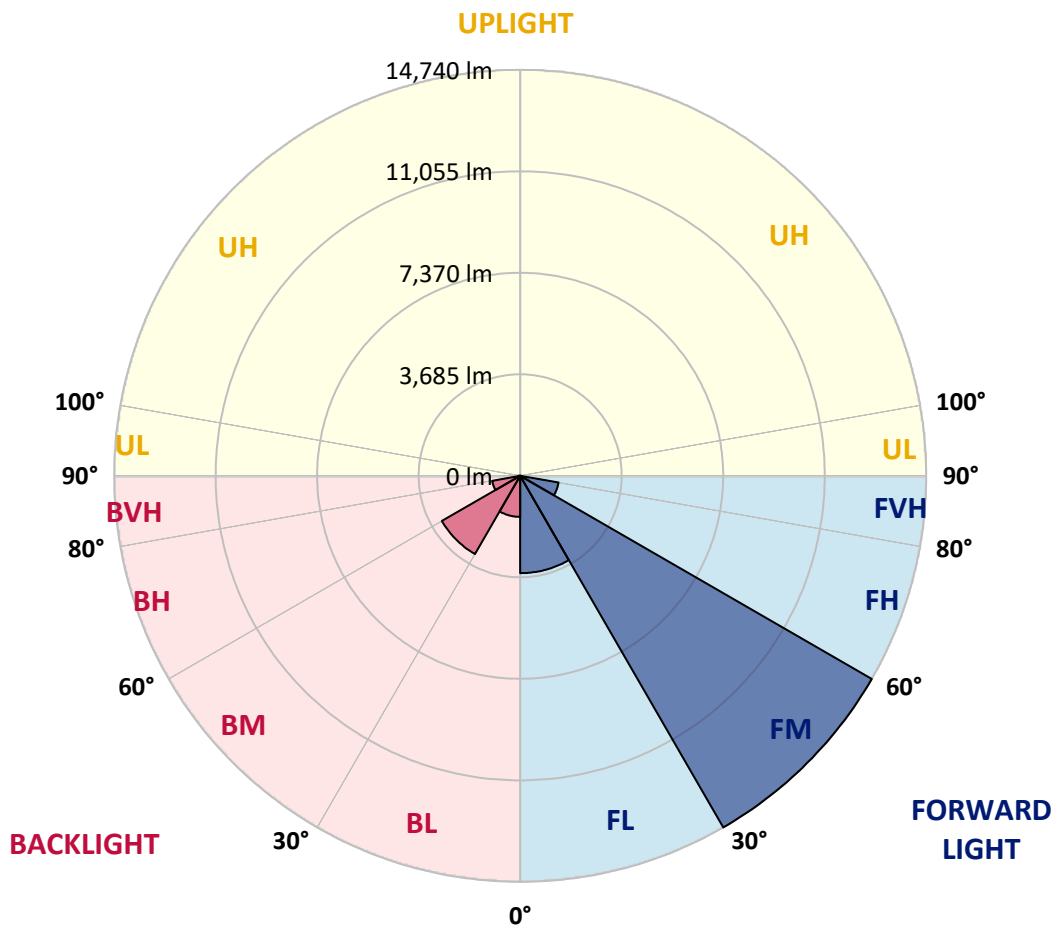
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3534.0	13.8			
FM (30°-60°)	14739.8	57.6			
FH (60°-80°)	1413.2	5.5			G1/1800
FVH (80°-90°)	49.5	0.2			G1/100
BL (0°-30°)	1491.1	5.8	B3/2500		
BM (30°-60°)	3280.1	12.8	B3/5000		
BH (60°-80°)	1033.4	4.0	B3/2500		G3/2500
BVH (80°-90°)	61.0	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°	3564.0	3564.0	3564.0	3564.0	3564.0	3564.0	3564.0	3564.0	3564.0	3564.0	3564.0
2.5°	4584.1	4555.6	4470.1	4441.6	4340.2	4156.4	4093.1	3906.2	3827.0	3754.1	3668.6
5°	5797.5	5664.4	5654.9	5493.3	5258.9	5122.7	4717.2	4444.7	4194.5	4067.7	3833.3
7.5°	6570.5	6573.6	6573.6	6440.6	6253.7	5908.3	5544.0	5053.0	4676.0	4489.1	4089.9
10°	7305.4	7242.1	7207.2	7194.6	7067.8	6732.0	6342.4	5734.1	5217.7	4999.1	4283.2
12.5°	7825.0	7771.1	7850.3	7809.2	7717.3	7498.7	7131.2	6437.4	5791.1	5496.5	4593.6
15°	8072.1	8110.1	8173.5	8287.5	8246.3	8164.0	7758.5	7159.7	6408.9	6076.3	4869.2
17.5°	8452.3	8347.7	8423.8	8566.3	8680.4	8642.3	8411.1	7682.4	7020.3	6611.6	5239.9
20°	8718.4	8658.2	8696.2	8860.9	8946.5	9161.9	9041.5	8366.7	7606.4	7175.6	5677.1
22.5°	9478.7	9390.0	9266.4	9291.8	9323.5	9475.5	9504.0	9117.5	8287.5	7831.3	6092.1
25°	10416.4	10334.1	10188.3	10039.4	9947.6	9919.1	10017.3	9706.8	8940.1	8468.1	6538.8
27.5°	11449.2	11309.8	11217.9	10910.6	10663.5	10625.5	10578.0	10410.1	9713.1	9203.1	7042.5
30°	12453.5	12342.6	12219.0	11728.0	11471.4	11430.2	11195.8	11243.3	10552.7	9985.6	7612.7
32.5°	13213.8	13223.3	12941.3	12570.7	12329.9	12111.3	12025.8	12162.0	11629.8	11173.6	8249.5
35°	13828.4	13856.9	13587.6	13251.8	12992.0	13144.1	13106.1	13169.4	12916.0	12358.4	8990.8
37.5°	14427.1	14284.6	13996.3	13834.7	13698.5	13948.8	14271.9	14325.8	14373.3	13717.5	9852.5
40°	14525.3	14538.0	14370.1	14484.2	14313.1	14690.1	15440.9	15371.2	15564.5	14991.0	10787.1
42.5°	14386.0	14414.5	14481.0	14642.6	15054.4	15507.4	16622.6	16337.5	16571.9	16061.8	11696.3
45°	14157.9	14040.6	14123.0	14737.6	15450.4	16457.8	17702.9	17481.1	17405.1	16977.4	12779.8
47.5°	13068.1	13188.4	13445.1	14202.2	15273.0	16622.6	18469.5	18418.8	18646.9	18346.0	13765.0
50°	11556.9	11509.4	12003.6	12855.8	14237.1	16299.4	18428.3	18887.7	19378.7	18960.6	14205.4
52.5°	8655.0	8908.5	9333.0	10391.1	12361.6	14538.0	17528.6	18295.3	18694.5	18605.8	13850.6
55°	5471.2	5547.2	5803.8	7061.5	8835.6	11667.8	15025.9	16803.2	17516.0	17848.6	13524.3
57.5°	2658.0	2515.4	2829.0	3839.6	5103.7	7847.2	11588.6	14636.2	16185.4	16787.3	12814.6
60°	1387.6	1441.4	1565.0	1926.2	2639.0	4074.1	7223.1	9754.3	12120.8	13045.9	9713.1
62.5°	1150.0	1169.0	1251.4	1431.9	1755.1	2344.3	3687.6	4755.2	6180.8	7014.0	5525.0
65°	975.7	985.3	1074.0	1194.3	1400.3	1650.5	1897.6	1986.3	2404.5	2467.9	1964.2
67.5°	814.2	823.7	918.7	1032.8	1165.8	1232.4	1295.7	1289.4	1336.9	1317.9	1314.7
70°	627.3	636.8	735.0	855.4	921.9	883.9	1080.3	1124.6	1143.7	1159.5	1184.8
72.5°	453.0	472.0	548.1	633.6	598.8	687.5	890.2	956.7	982.1	991.6	1023.3
75°	329.5	335.8	354.8	329.5	380.2	478.4	627.3	709.6	741.3	750.8	798.3
77.5°	145.7	148.9	152.1	190.1	243.9	297.8	373.8	440.4	484.7	497.4	510.1
80°	76.0	79.2	98.2	129.9	174.2	218.6	272.4	310.5	339.0	342.1	354.8
82.5°	47.5	50.7	69.7	91.9	123.6	161.6	199.6	231.3	253.4	256.6	259.8
85°	22.2	28.5	41.2	57.0	82.4	104.5	107.7	91.9	98.2	101.4	95.0
87.5°	6.3	9.5	12.7	9.5	12.7	12.7	15.8	19.0	19.0	19.0	22.2
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°	3564.0	3564.0	3564.0	3564.0	3564.0	3564.0	3564.0	3564.0	3564.0	3564.0	3564.0
2.5°	3621.0	3592.5	3481.6	3440.5	3332.8	3351.8	3294.7	3291.6	3278.9	3275.7	3272.6
5°	3709.7	3621.0	3488.0	3386.6	3326.4	3320.1	3278.9	3278.9	3291.6	3301.1	3278.9
7.5°	3855.5	3754.1	3529.2	3434.1	3380.3	3370.8	3342.3	3320.1	3348.6	3339.1	3313.7
10°	4023.4	3846.0	3608.4	3526.0	3437.3	3415.1	3415.1	3424.6	3377.1	3392.9	3367.6
12.5°	4210.3	3972.7	3709.7	3614.7	3510.2	3497.5	3491.2	3421.5	3446.8	3434.1	3370.8
15°	4447.9	4118.4	3839.6	3678.1	3589.4	3532.3	3450.0	3437.3	3421.5	3389.8	3361.3
17.5°	4704.5	4276.8	3899.8	3697.1	3564.0	3522.8	3459.5	3392.9	3345.4	3351.8	3329.6
20°	4923.1	4422.5	3922.0	3716.1	3545.0	3465.8	3367.6	3326.4	3275.7	3272.6	3269.4
22.5°	5182.9	4619.0	3953.7	3665.4	3488.0	3405.6	3339.1	3266.2	3231.4	3187.0	3209.2
25°	5493.3	4695.0	3960.0	3636.9	3446.8	3301.1	3266.2	3187.0	3174.4	3111.0	3123.7
27.5°	5718.3	4736.2	3909.3	3548.2	3351.8	3240.9	3177.5	3120.5	3098.3	3050.8	3038.1
30°	6019.2	4799.5	3801.6	3437.3	3256.7	3133.2	3095.2	3082.5	3019.1	2968.4	2962.1
32.5°	6361.4	4840.7	3731.9	3323.2	3158.5	3063.5	3082.5	3022.3	2943.1	2898.7	2886.1
35°	6633.8	4856.6	3557.7	3193.4	3092.0	3031.8	3009.6	2996.9	2882.9	2841.7	2810.0
37.5°	7048.8	4821.7	3412.0	3101.5	3019.1	2996.9	2977.9	2892.4	2762.5	2702.3	2658.0
40°	7533.5	4812.2	3225.0	2971.6	2949.4	2974.8	2917.7	2784.7	2604.1	2537.6	2505.9
42.5°	7999.2	4878.7	3107.8	2901.9	2873.4	2882.9	2803.7	2604.1	2515.4	2477.4	2426.7
45°	8778.6	5018.1	2914.6	2794.2	2781.5	2775.2	2680.1	2471.1	2420.4	2372.8	2363.3
47.5°	9481.9	4926.3	2791.0	2683.3	2696.0	2661.1	2458.4	2391.9	2334.8	2287.3	2271.5
50°	9523.1	4707.7	2616.8	2597.8	2600.9	2540.7	2347.5	2303.1	2230.3	2198.6	2176.4
52.5°	9307.6	4349.7	2455.2	2461.5	2471.1	2372.8	2211.3	2179.6	2119.4	2075.0	2062.4
55°	8702.5	3792.1	2296.8	2322.2	2347.5	2160.6	2109.9	2030.7	1983.2	1919.8	1923.0
57.5°	7666.6	3054.0	2075.0	2116.2	2170.1	1964.2	1926.2	1827.9	1758.2	1707.6	1701.2
60°	5138.5	2173.3	1742.4	1758.2	1878.6	1796.3	1793.1	1694.9	1599.8	1555.5	1530.2
62.5°	3031.8	1660.0	1504.8	1489.0	1485.8	1533.3	1612.5	1577.7	1454.1	1368.6	1393.9
65°	1587.2	1435.1	1400.3	1346.4	1314.7	1302.1	1362.2	1378.1	1295.7	1203.8	1197.5
67.5°	1333.7	1333.7	1305.2	1286.2	1241.9	1188.0	1150.0	1099.3	1086.6	1061.3	1029.6
70°	1213.3	1245.0	1235.5	1191.2	1153.2	1093.0	994.8	912.4	833.2	804.7	823.7
72.5°	1058.1	1089.8	1089.8	1067.6	1016.9	925.1	830.0	735.0	668.5	617.8	611.4
75°	814.2	830.0	868.0	842.7	776.2	719.1	620.9	522.7	459.4	411.8	402.3
77.5°	519.6	544.9	544.9	541.7	494.2	440.4	377.0	307.3	259.8	224.9	215.4
80°	345.3	361.2	373.8	361.2	329.5	288.3	240.8	193.2	158.4	129.9	123.6
82.5°	253.4	272.4	282.0	269.3	237.6	205.9	171.1	136.2	101.4	79.2	72.9
85°	98.2	101.4	114.0	136.2	133.1	129.9	104.5	76.0	57.0	41.2	38.0
87.5°	25.3	22.2	25.3	25.3	22.2	19.0	19.0	19.0	19.0	9.5	12.7
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)