

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: P652517

Luminaire Tested: **GALN-SA7B-840-U-T2R-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P652517  
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-840-U-T2R-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 80 CRI, 4000K, 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: 29289.5 lumens  
Efficiency: N/A  
Efficacy: 102.4 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

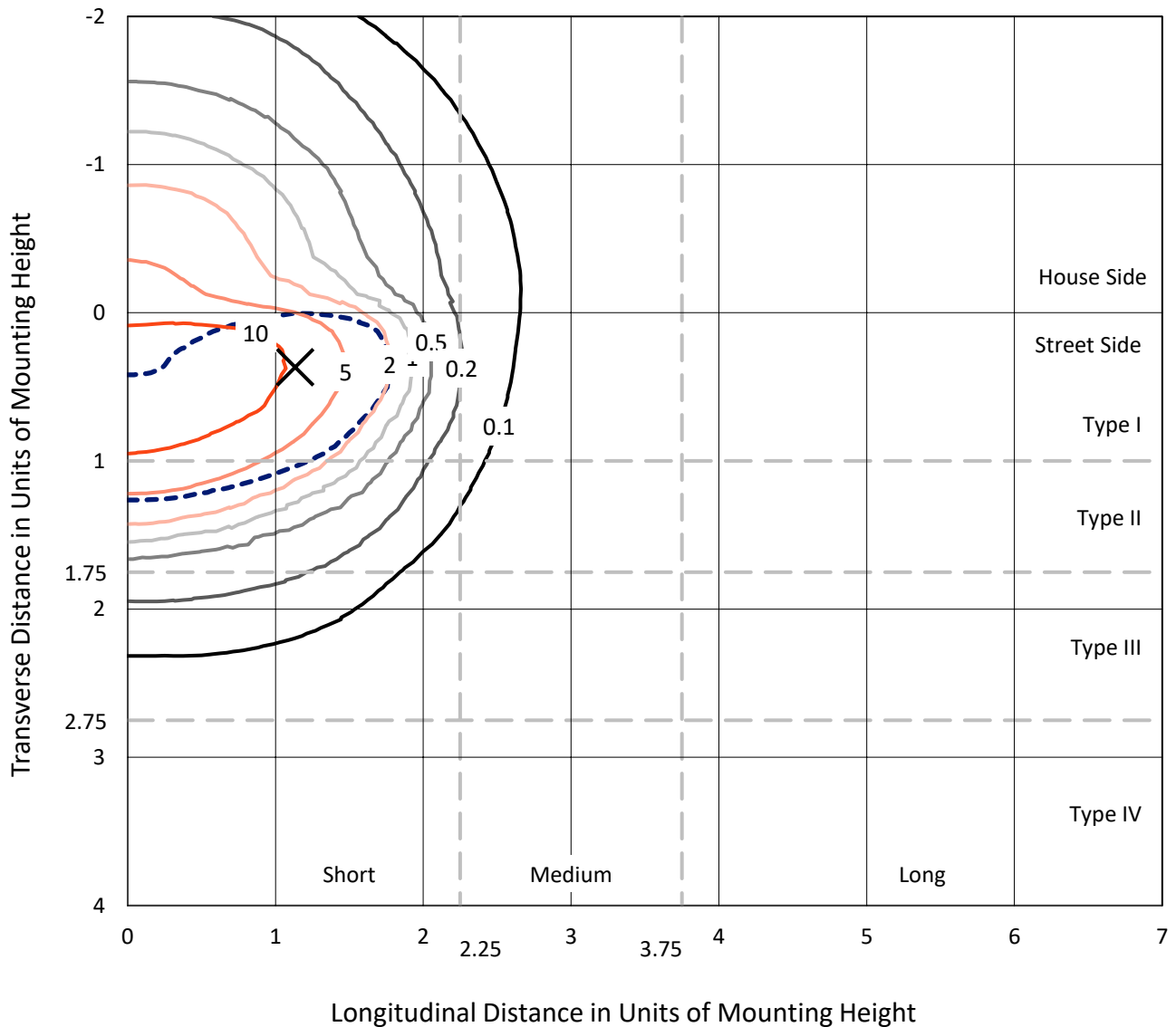
Input Watts (W): 286  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

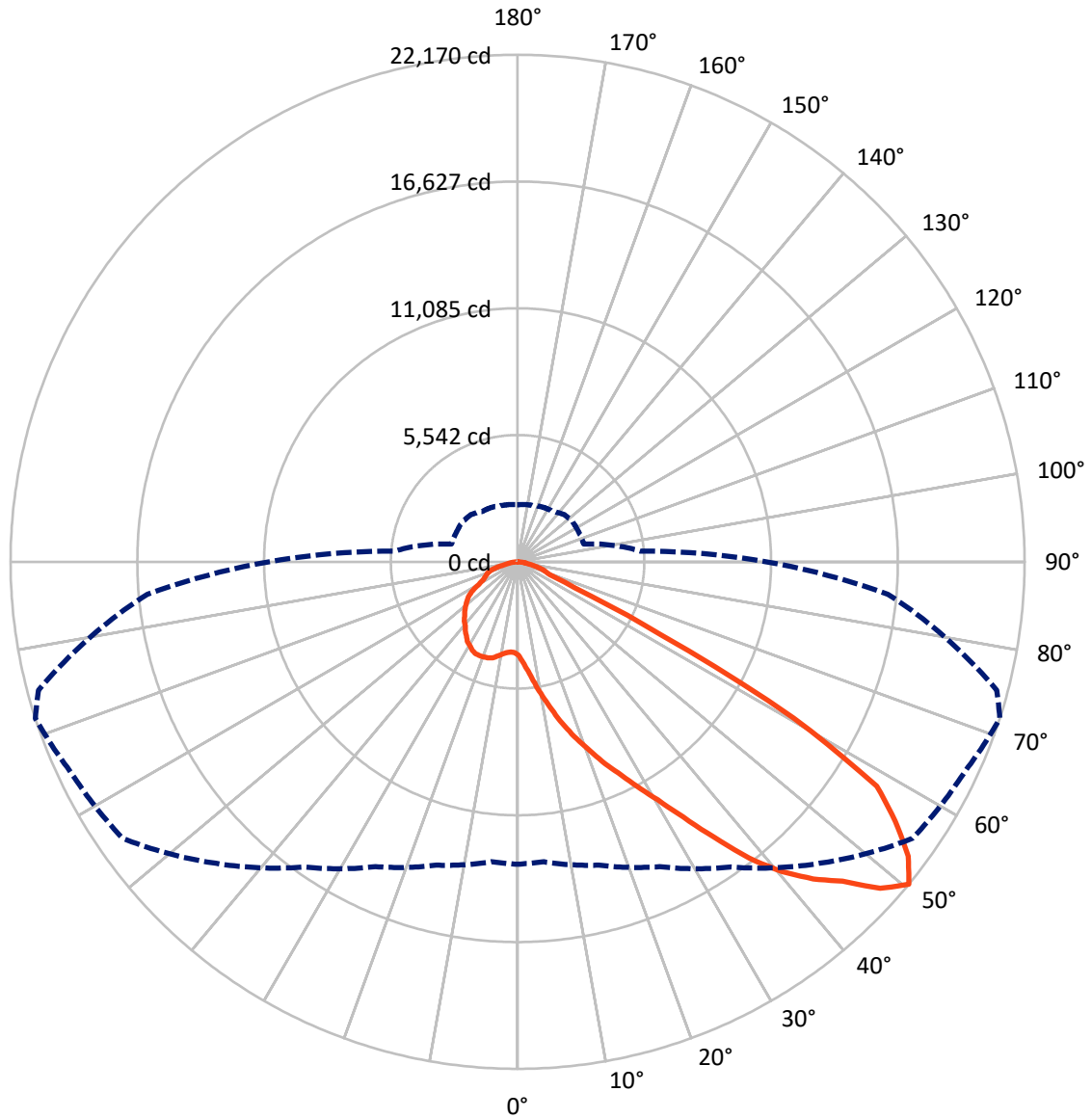
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.6 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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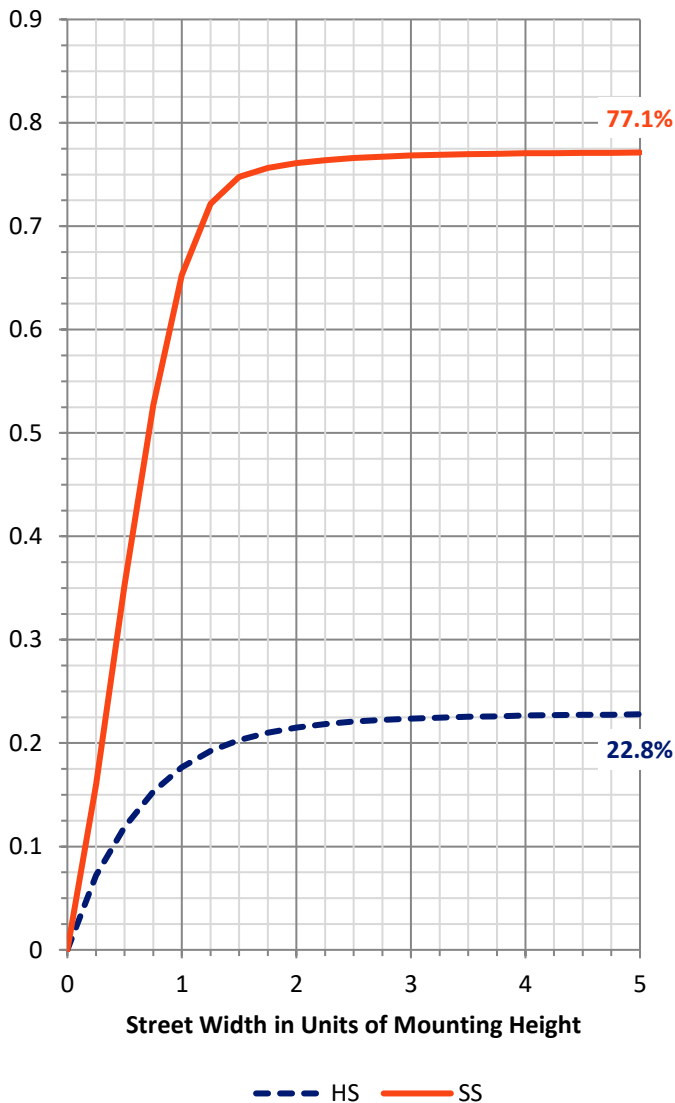
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6710.4	0.0	6710.4
	% Fixture	22.9	0.0	22.9
<b>Street Side</b>	Lumens	22579.1	0.0	22579.1
	% Fixture	77.1	0.0	77.1
<b>Total</b>	Lumens	29289.5	0.0	29289.5
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	479.6	1.6
10°-20°	1792.9	6.1
20°-30°	3476.3	11.9
30°-40°	5759.1	19.7
40°-50°	8058.2	27.5
50°-60°	6798.1	23.2
60°-70°	2072.0	7.1
70°-80°	726.9	2.5
80°-90°	126.4	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°	29289.5	100.0
0°-180°	29289.5	100.0



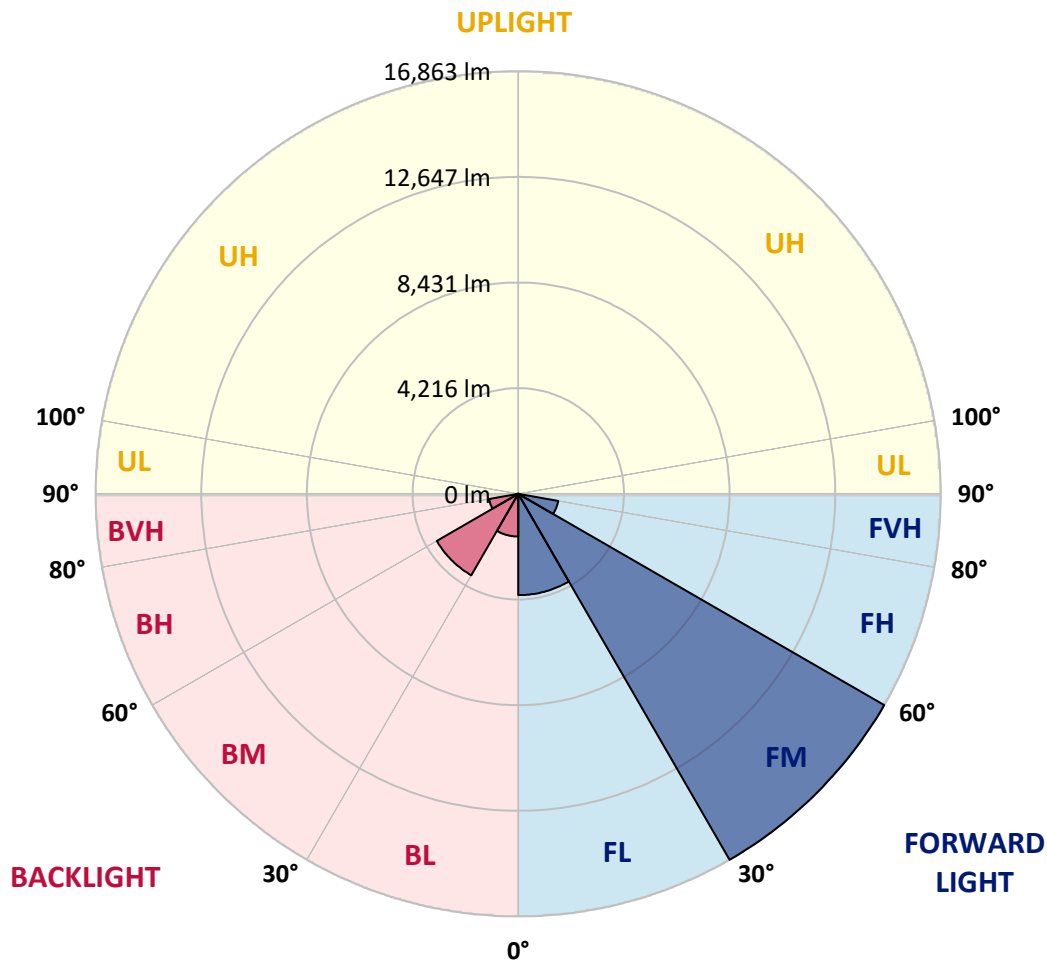
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4043.0	13.8			
FM (30°-60°)	16862.8	57.6			
FH (60°-80°)	1616.7	5.5			G1/1800
FVH (80°-90°)	56.6	0.2			G1/100
BL (0°-30°)	1705.8	5.8	B3/2500		
BM (30°-60°)	3752.6	12.8	B3/5000		
BH (60°-80°)	1182.2	4.0	B3/2500		G3/2500
BVH (80°-90°)	69.8	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°	4077.3	4077.3	4077.3	4077.3	4077.3	4077.3	4077.3	4077.3	4077.3	4077.3	4077.3
2.5°	5244.4	5211.8	5113.9	5081.3	4965.3	4755.1	4682.6	4468.7	4378.2	4294.8	4196.9
5°	6632.5	6480.2	6469.4	6284.5	6016.3	5860.5	5396.6	5084.9	4798.6	4653.6	4385.4
7.5°	7516.9	7520.5	7520.5	7368.3	7154.4	6759.4	6342.6	5780.8	5349.5	5135.7	4679.0
10°	8357.7	8285.2	8245.3	8230.8	8085.8	7701.6	7255.9	6560.0	5969.2	5719.1	4900.1
12.5°	8952.0	8890.5	8981.0	8933.9	8828.8	8578.7	8158.3	7364.6	6625.2	6288.2	5255.2
15°	9234.8	9278.2	9350.7	9481.2	9434.1	9339.8	8875.9	8190.9	7332.0	6951.5	5570.5
17.5°	9669.6	9550.1	9637.0	9800.2	9930.6	9887.1	9622.6	8789.0	8031.5	7564.0	5994.6
20°	9974.1	9905.2	9948.7	10137.2	10235.1	10481.5	10343.8	9571.8	8702.0	8209.1	6494.8
22.5°	10843.9	10742.4	10601.1	10630.1	10666.3	10840.3	10873.0	10430.8	9481.2	8959.3	6969.5
25°	11916.7	11822.5	11655.8	11485.5	11380.3	11347.7	11460.1	11104.9	10227.8	9687.8	7480.6
27.5°	13098.2	12938.8	12833.7	12482.1	12199.5	12155.9	12101.6	11909.5	11112.1	10528.6	8056.9
30°	14247.1	14120.3	13978.9	13417.2	13123.6	13076.5	12808.3	12862.7	12072.6	11423.8	8709.2
32.5°	15117.0	15127.9	14805.3	14381.3	14105.8	13855.7	13757.9	13913.8	13304.9	12782.9	9437.7
35°	15820.1	15852.8	15544.7	15160.5	14863.3	15037.2	14993.8	15066.3	14776.3	14138.5	10285.8
37.5°	16505.1	16342.0	16012.2	15827.4	15671.5	15957.8	16327.5	16389.2	16443.5	15693.2	11271.6
40°	16617.5	16632.0	16439.9	16570.3	16374.6	16806.0	17664.9	17585.1	17806.2	17150.3	12340.7
42.5°	16458.0	16490.6	16566.7	16751.5	17222.8	17741.0	19016.8	18690.6	18958.7	18375.3	13381.0
45°	16197.1	16062.9	16157.2	16860.3	17675.8	18828.3	20252.6	19999.0	19911.9	19422.6	14620.4
47.5°	14950.3	15088.0	15381.6	16247.8	17472.8	19016.8	21129.7	21071.8	21332.7	20988.4	15747.6
50°	13221.4	13167.1	13732.5	14707.5	16287.6	18647.1	21082.6	21608.1	22169.9	21691.5	16251.4
52.5°	9901.6	10191.6	10677.3	11887.7	14142.1	16632.0	20053.3	20930.4	21387.1	21285.5	15845.4
55°	6259.1	6346.2	6639.7	8078.6	10108.2	13348.4	17190.1	19223.3	20038.8	20419.4	15472.2
57.5°	3040.8	2877.7	3236.5	4392.6	5838.7	8977.4	13257.7	16744.3	18516.6	19205.2	14660.3
60°	1587.5	1649.0	1790.4	2203.6	3019.0	4660.8	8263.4	11159.2	13866.6	14924.9	11112.1
62.5°	1315.7	1337.4	1431.6	1638.2	2007.9	2681.9	4218.7	5440.1	7071.0	8024.2	6320.8
65°	1116.3	1127.2	1228.6	1366.4	1601.9	1888.3	2171.0	2272.5	2750.8	2823.3	2247.1
67.5°	931.4	942.3	1051.1	1181.5	1333.7	1409.9	1482.3	1475.1	1529.4	1507.7	1504.1
70°	717.6	728.5	840.8	978.6	1054.7	1011.2	1235.8	1286.6	1308.3	1326.5	1355.5
72.5°	518.3	540.0	627.0	724.9	685.0	786.5	1018.5	1094.6	1123.6	1134.4	1170.7
75°	376.9	384.2	406.0	376.9	434.9	547.2	717.6	811.8	848.1	859.0	913.3
77.5°	166.7	170.3	174.0	217.5	279.0	340.7	427.6	503.8	554.6	569.0	583.5
80°	87.0	90.6	112.4	148.6	199.3	250.1	311.7	355.2	387.8	391.4	406.0
82.5°	54.3	58.0	79.7	105.1	141.4	184.9	228.3	264.6	290.0	293.6	297.2
85°	25.4	32.6	47.1	65.3	94.2	119.6	123.2	105.1	112.4	116.0	108.7
87.5°	7.2	10.8	14.5	10.8	14.5	14.5	18.1	21.8	21.8	21.8	25.4
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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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4077.3	4077.3	4077.3	4077.3	4077.3	4077.3	4077.3	4077.3	4077.3	4077.3	4077.3
2.5°	4142.6	4110.0	3983.1	3936.0	3812.8	3834.5	3769.3	3765.7	3751.2	3747.5	3743.9
5°	4244.1	4142.6	3990.4	3874.4	3805.5	3798.3	3751.2	3751.2	3765.7	3776.5	3751.2
7.5°	4410.8	4294.8	4037.5	3928.7	3867.2	3856.2	3823.6	3798.3	3830.9	3820.0	3791.1
10°	4602.9	4399.9	4128.0	4033.9	3932.3	3907.0	3907.0	3917.9	3863.6	3881.6	3852.6
12.5°	4816.7	4544.8	4244.1	4135.4	4015.8	4001.2	3994.0	3914.3	3943.3	3928.7	3856.2
15°	5088.6	4711.6	4392.6	4207.9	4106.4	4041.1	3946.9	3932.3	3914.3	3878.0	3845.4
17.5°	5382.1	4892.9	4461.5	4229.6	4077.3	4030.2	3957.7	3881.6	3827.3	3834.5	3809.1
20°	5632.2	5059.5	4486.9	4251.3	4055.6	3965.0	3852.6	3805.5	3747.5	3743.9	3740.3
22.5°	5929.4	5284.3	4523.2	4193.3	3990.4	3896.1	3820.0	3736.6	3696.8	3646.1	3671.4
25°	6284.5	5371.2	4530.4	4160.7	3943.3	3776.5	3736.6	3646.1	3631.5	3559.1	3573.6
27.5°	6541.9	5418.3	4472.4	4059.3	3834.5	3707.6	3635.2	3570.0	3544.6	3490.2	3475.7
30°	6886.2	5490.8	4349.1	3932.3	3725.8	3584.4	3540.9	3526.5	3454.0	3396.0	3388.7
32.5°	7277.6	5538.0	4269.4	3801.9	3613.4	3504.7	3526.5	3457.6	3366.9	3316.2	3301.8
35°	7589.3	5556.1	4070.1	3653.3	3537.3	3468.5	3443.1	3428.6	3298.1	3251.0	3214.7
37.5°	8064.1	5516.2	3903.4	3548.2	3454.0	3428.6	3406.9	3309.0	3160.4	3091.5	3040.8
40°	8618.6	5505.4	3689.6	3399.6	3374.3	3403.2	3338.0	3185.8	2979.2	2903.0	2866.8
42.5°	9151.4	5581.5	3555.4	3319.8	3287.2	3298.1	3207.5	2979.2	2877.7	2834.2	2776.2
45°	10043.0	5740.9	3334.4	3196.6	3182.2	3174.9	3066.2	2826.9	2769.0	2714.6	2703.7
47.5°	10847.6	5635.8	3193.0	3069.8	3084.3	3044.4	2812.5	2736.4	2671.1	2616.8	2598.6
50°	10894.7	5385.8	2993.7	2971.9	2975.5	2906.7	2685.6	2634.9	2551.5	2515.3	2489.9
52.5°	10648.2	4976.2	2808.9	2816.1	2826.9	2714.6	2529.7	2493.6	2424.7	2373.9	2359.4
55°	9956.0	4338.3	2627.6	2656.6	2685.6	2471.8	2413.8	2323.2	2268.8	2196.4	2200.0
57.5°	8770.9	3493.9	2373.9	2421.1	2482.6	2247.1	2203.6	2091.2	2011.5	1953.5	1946.2
60°	5878.6	2486.2	1993.3	2011.5	2149.2	2055.0	2051.4	1939.0	1830.3	1779.6	1750.5
62.5°	3468.5	1899.1	1721.5	1703.4	1699.8	1754.2	1844.7	1804.9	1663.6	1565.7	1594.7
65°	1815.8	1641.8	1601.9	1540.3	1504.1	1489.6	1558.5	1576.5	1482.3	1377.2	1370.0
67.5°	1525.8	1525.8	1493.2	1471.5	1420.7	1359.1	1315.7	1257.6	1243.2	1214.2	1177.9
70°	1388.1	1424.3	1413.5	1362.8	1319.3	1250.4	1138.0	1043.8	953.2	920.6	942.3
72.5°	1210.5	1246.8	1246.8	1221.4	1163.4	1058.3	949.6	840.8	764.7	706.8	699.5
75°	931.4	949.6	993.1	964.0	887.9	822.8	710.4	598.0	525.5	471.1	460.3
77.5°	594.4	623.3	623.3	619.7	565.4	503.8	431.3	351.5	297.2	257.3	246.4
80°	395.0	413.2	427.6	413.2	376.9	329.8	275.4	221.1	181.2	148.6	141.4
82.5°	290.0	311.7	322.5	308.1	271.8	235.6	195.7	155.8	116.0	90.6	83.3
85°	112.4	116.0	130.4	155.8	152.2	148.6	119.6	87.0	65.3	47.1	43.5
87.5°	29.0	25.4	29.0	29.0	25.4	21.8	21.8	21.8	21.8	10.8	14.5
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)