

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: P531672

Luminaire Tested: **GALN-SA7A-727-U-T2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531672
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-14)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7A-727-U-T2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22344 lumens
Efficiency: N/A
Efficacy: 103.9 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

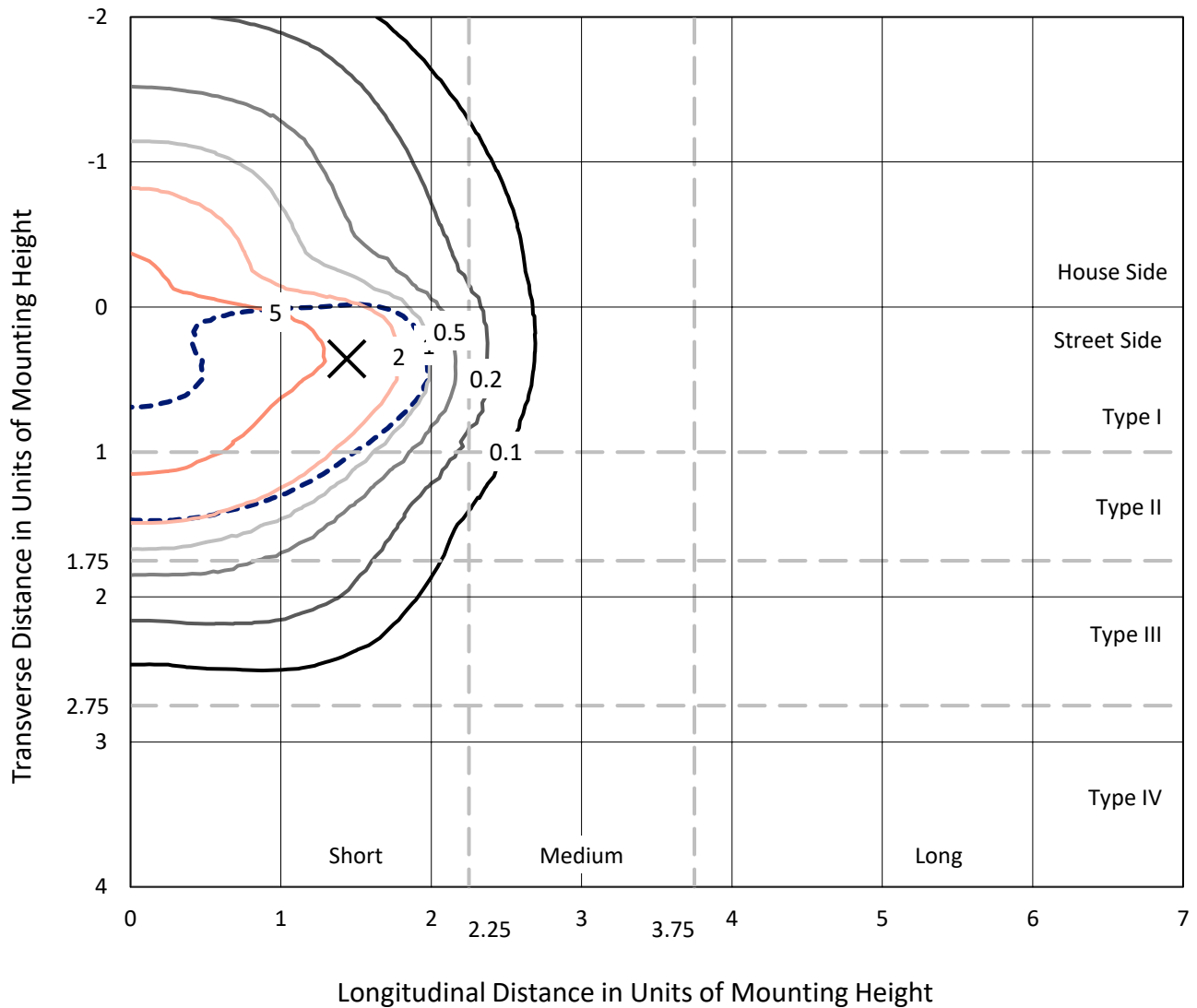
Input Watts (W): 215
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

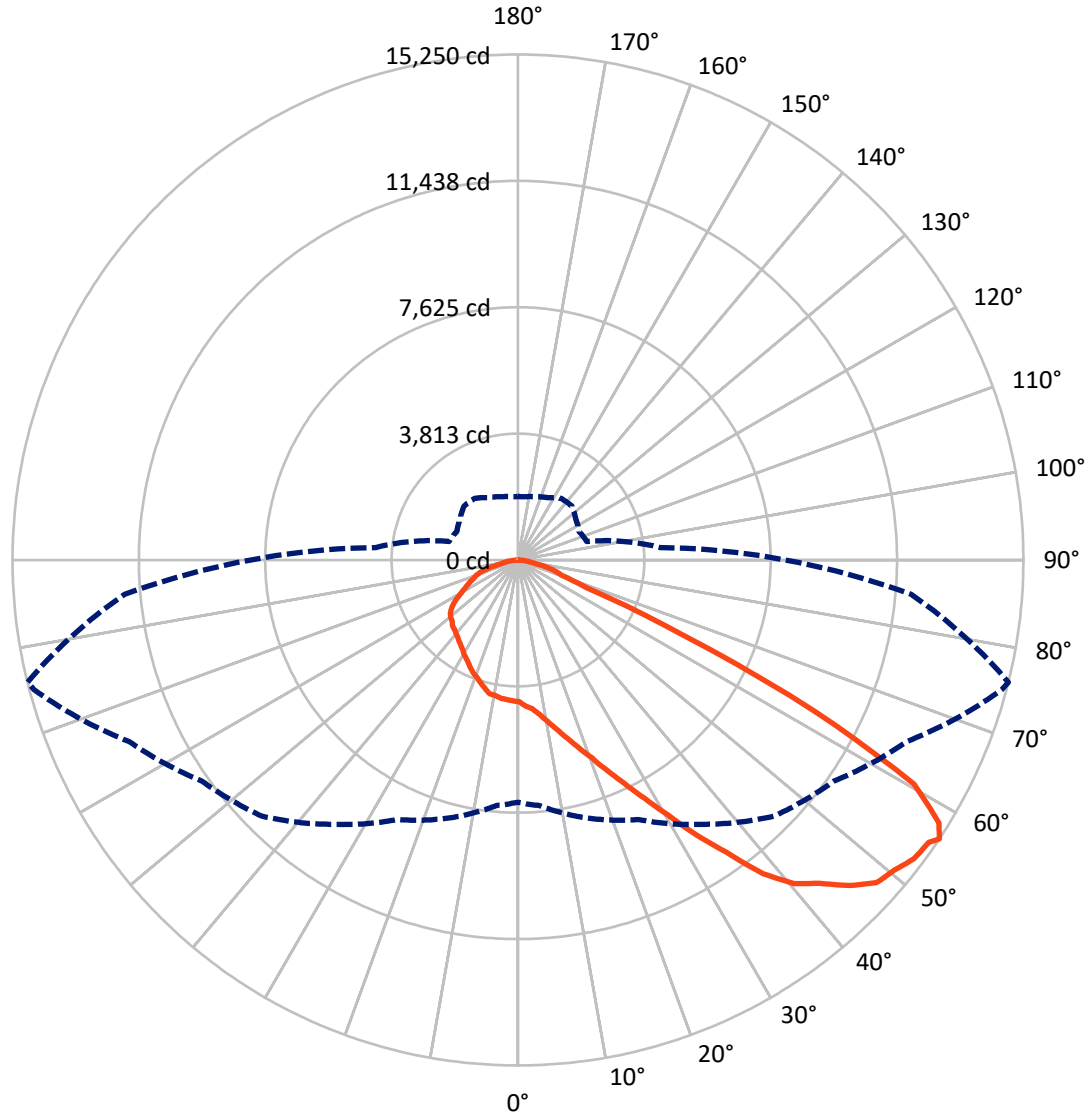
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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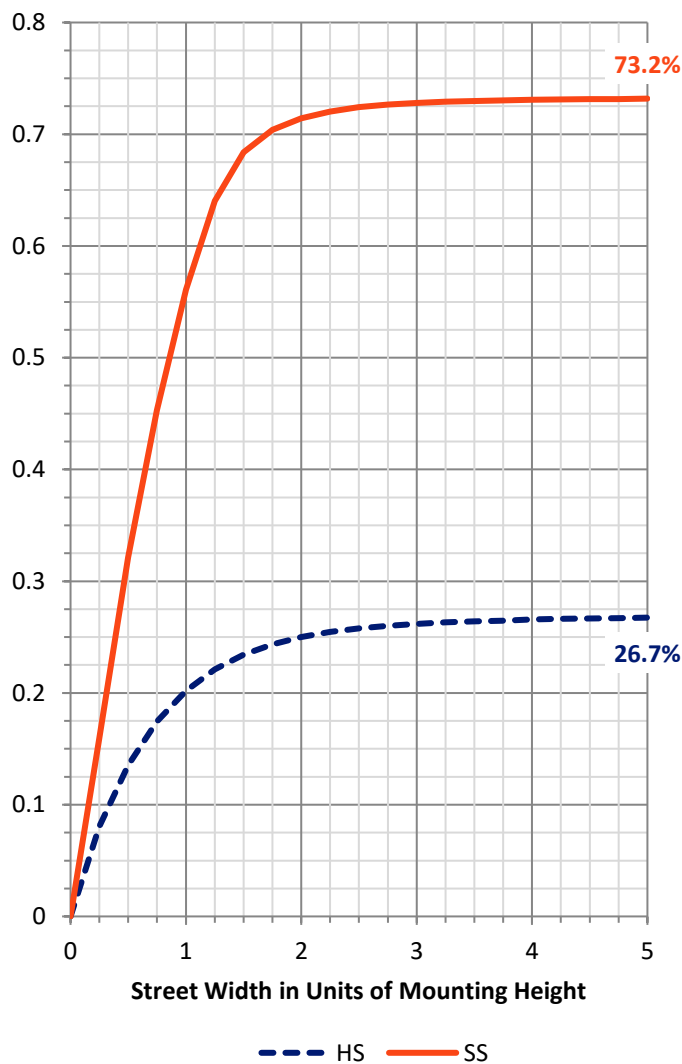
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6007.6	0.0	6007.6
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	16336.4	0.0	16336.4
	% Fixture	73.1	0.0	73.1
Total	Lumens	22344.0	0.0	22344.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	424.0	1.9
10°-20°	1331.8	6.0
20°-30°	2329.2	10.4
30°-40°	3646.9	16.3
40°-50°	5305.2	23.7
50°-60°	5830.7	26.1
60°-70°	2602.6	11.6
70°-80°	751.7	3.4
80°-90°	121.9	0.5
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°	22344.0	100.0
0°-180°	22344.0	100.0

Coefficient of Utilization



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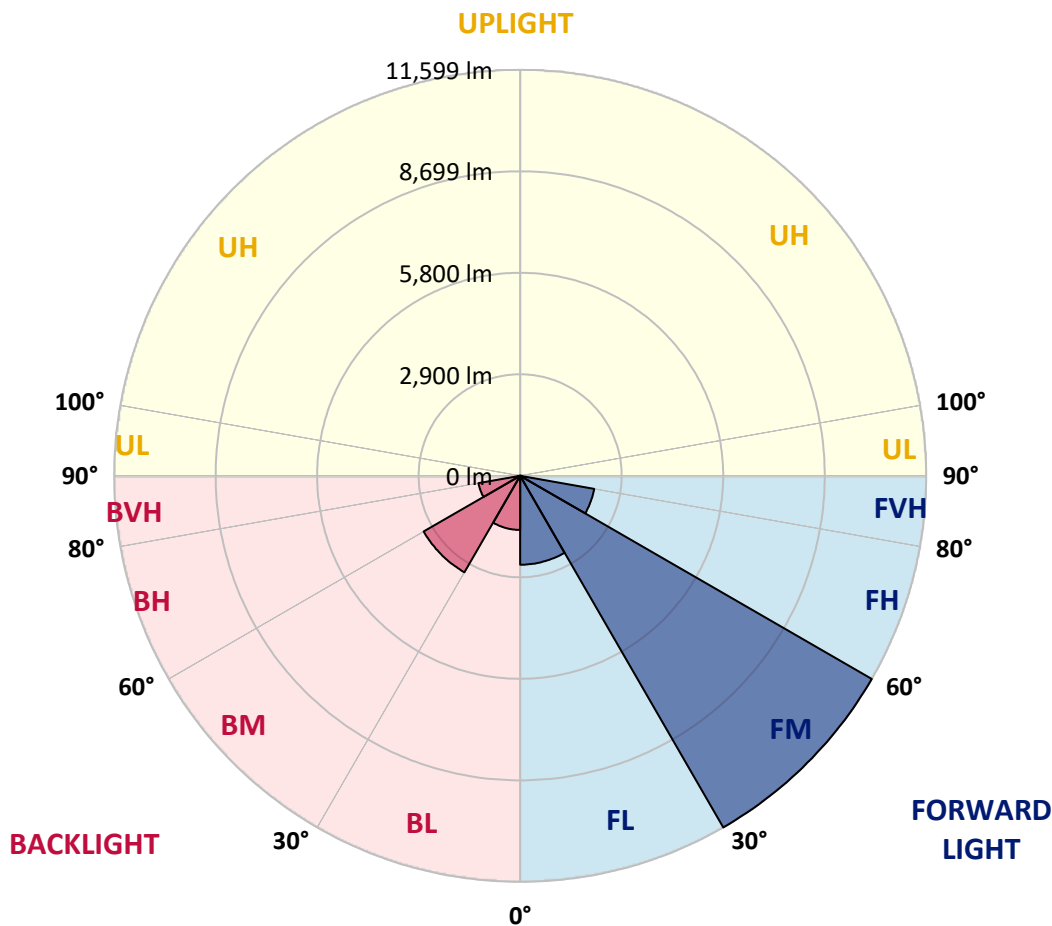
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2539.1	11.4			
FM (30°-60°)	11599.2	51.9			
FH (60°-80°)	2145.6	9.6			G2/5000
FVH (80°-90°)	52.5	0.2			G1/100
BL (0°-30°)	1545.9	6.9	B3/2500		
BM (30°-60°)	3183.6	14.2	B3/5000		
BH (60°-80°)	1208.7	5.4	B3/2500		G3/2500
BVH (80°-90°)	69.4	0.3			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°	75°	76°	85°
0°	4275.2	4275.2	4275.2	4275.2	4275.2	4275.2	4275.2	4275.2	4275.2	4275.2	4275.2
2.5°	4709.7	4634.4	4628.6	4608.3	4619.9	4567.8	4512.8	4440.3	4365.0	4411.4	4301.3
5°	5039.9	4938.5	4979.1	4909.6	4918.3	4848.7	4735.8	4651.8	4559.1	4504.1	4425.9
7.5°	5155.8	5164.5	5193.4	5181.8	5123.9	5123.9	5048.6	4900.9	4738.7	4706.8	4576.5
10°	5312.2	5315.1	5283.2	5291.9	5373.0	5335.4	5268.7	5205.0	4996.5	4958.8	4727.1
12.5°	5367.2	5315.1	5367.2	5413.6	5509.1	5561.3	5546.8	5500.5	5277.4	5251.4	4912.5
15°	5375.9	5344.0	5387.5	5491.8	5575.8	5795.9	5906.0	5874.1	5578.7	5581.6	5121.0
17.5°	5335.4	5378.8	5396.2	5486.0	5680.0	5885.7	6204.3	6247.8	6004.4	5966.8	5384.6
20°	5390.4	5358.5	5381.7	5462.8	5720.6	6042.1	6459.2	6746.0	6404.2	6378.1	5656.9
22.5°	5601.8	5558.4	5552.6	5604.7	5790.1	6123.2	6728.6	7244.2	6890.8	6905.3	5995.8
25°	5766.9	5790.1	5769.8	5766.9	5882.8	6244.9	7084.8	7837.9	7551.2	7467.2	6395.5
27.5°	6050.8	6105.8	6065.3	6120.3	6094.2	6427.3	7339.7	8495.4	8263.7	8150.8	6757.5
30°	6444.7	6473.7	6436.0	6436.0	6357.8	6682.2	7571.5	9181.9	9086.3	8932.8	7183.3
32.5°	6963.2	7006.6	6931.3	6887.9	6876.3	7061.7	7988.6	9859.7	10021.9	9891.6	7748.1
35°	7649.7	7623.6	7533.8	7493.3	7336.8	7643.9	8608.4	10638.9	11064.6	10832.9	8431.7
37.5°	8255.0	8214.5	8208.7	7982.8	8020.4	8272.4	9135.6	11229.7	12075.5	12008.9	9152.9
40°	8819.8	8857.5	8918.3	8790.9	8733.0	9011.0	9749.6	11681.6	12860.5	12834.4	9709.1
42.5°	9425.2	9390.5	9497.6	9390.5	9303.6	9697.5	10415.8	11994.4	13549.8	13335.5	10291.3
45°	10302.9	10192.8	10230.4	10239.1	10175.4	10320.2	10691.0	12220.3	14033.6	14010.4	10717.1
47.5°	11035.7	11038.6	10974.8	10925.6	10731.5	10876.4	10998.0	12362.3	14589.7	14552.0	10882.2
50°	11307.9	11270.3	11455.7	11562.8	11574.4	11279.0	11238.4	12440.5	14882.2	14717.1	11047.3
52.5°	10328.9	10363.7	10656.2	11293.5	11661.3	11693.2	11519.4	12602.7	15001.0	14966.2	11180.5
55°	8313.0	8481.0	8961.8	9697.5	10569.3	11528.1	11823.5	12770.7	15064.7	15035.7	11771.4
56°	7307.9	7438.2	8063.9	8640.3	9735.1	10928.5	11632.4	12950.3	15113.9	15250.1	11910.4
57.5°	5882.8	6033.4	6482.4	7137.0	8428.8	9787.3	11105.2	12730.1	14922.8	14974.9	12011.8
60°	3678.6	3693.0	4231.8	4663.4	5572.9	6899.5	8475.2	11076.2	13810.5	13735.2	10789.5
62.5°	2412.8	2415.7	2905.2	3258.6	3672.8	3976.9	4987.8	7345.5	10189.9	10056.7	7681.5
65°	1694.5	1732.1	2111.6	2583.7	2751.7	2592.4	2560.5	3872.6	5691.6	5500.5	4127.5
67.5°	1239.7	1242.6	1578.6	2085.5	2328.8	1972.5	1601.8	1891.4	2253.5	2247.7	1911.7
70°	819.7	854.5	1112.3	1558.3	1836.4	1584.4	1309.2	1352.7	1433.8	1433.8	1422.2
72.5°	477.9	509.8	680.7	987.7	1031.2	990.6	1036.9	1158.6	1210.7	1207.8	1193.4
75°	272.3	286.8	324.4	411.3	512.7	605.4	761.8	877.6	929.8	961.6	924.0
77.5°	159.3	168.0	191.2	234.6	266.5	327.3	414.2	495.3	564.8	556.1	561.9
80°	84.0	84.0	107.2	139.0	185.4	231.7	275.2	321.5	359.2	367.9	376.5
82.5°	49.2	52.1	69.5	101.4	133.2	165.1	211.4	243.3	278.1	281.0	286.8
85°	26.1	29.0	43.4	66.6	89.8	101.4	104.3	98.5	107.2	101.4	115.9
87.5°	8.7	8.7	14.5	11.6	11.6	14.5	17.4	17.4	23.2	23.2	23.2
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°	4275.2	4275.2	4275.2	4275.2	4275.2	4275.2	4275.2	4275.2	4275.2	4275.2	4275.2
2.5°	4298.4	4298.4	4249.2	4156.5	4142.0	4104.3	4069.6	4066.7	4040.6	4017.4	4005.9
5°	4379.5	4289.7	4217.3	4133.3	4034.8	3988.5	3936.3	3878.4	3855.2	3878.4	3875.5
7.5°	4472.2	4396.9	4179.7	4023.2	3910.3	3863.9	3806.0	3745.2	3751.0	3751.0	3710.4
10°	4562.0	4460.6	4113.0	3913.2	3748.1	3713.3	3681.5	3704.6	3733.6	3739.4	3713.3
12.5°	4712.6	4483.8	4081.2	3803.1	3698.8	3623.5	3643.8	3707.5	3768.3	3751.0	3771.2
15°	4825.6	4504.1	3936.3	3690.1	3559.8	3594.6	3667.0	3710.4	3811.8	3800.2	3820.5
17.5°	4935.6	4515.6	3794.4	3539.5	3484.5	3580.1	3635.1	3759.7	3791.5	3861.0	3887.1
20°	5161.6	4538.8	3649.6	3446.8	3429.5	3539.5	3635.1	3693.0	3762.6	3823.4	3823.4
22.5°	5277.4	4527.2	3554.0	3325.2	3380.2	3449.7	3536.6	3635.1	3635.1	3693.0	3695.9
25°	5422.3	4480.9	3403.4	3267.3	3307.8	3374.4	3472.9	3438.1	3475.8	3475.8	3522.1
27.5°	5587.4	4382.4	3273.0	3163.0	3244.1	3316.5	3331.0	3307.8	3264.4	3258.6	3241.2
30°	5720.6	4260.8	3177.5	3128.2	3194.8	3235.4	3189.0	3139.8	3064.5	3058.7	3018.2
32.5°	5903.1	4110.1	3058.7	3041.3	3116.6	3119.5	3105.1	3029.7	2919.7	2873.3	2827.0
35°	6210.1	4023.2	2968.9	2995.0	3018.2	3009.5	2983.4	2902.3	2792.2	2772.0	2754.6
37.5°	6436.0	3959.5	2876.2	2908.1	2928.4	2939.9	2861.7	2772.0	2774.8	2734.3	2722.7
40°	6690.9	3919.0	2800.9	2815.4	2818.3	2856.0	2760.4	2716.9	2737.2	2711.1	2728.5
42.5°	7018.2	3930.6	2722.7	2711.1	2766.2	2751.7	2705.3	2647.4	2659.0	2580.8	2592.4
45°	7192.0	4008.8	2676.4	2624.2	2685.1	2682.2	2621.3	2566.3	2496.8	2346.2	2352.0
47.5°	7307.9	4029.0	2566.3	2531.5	2595.3	2632.9	2563.4	2436.0	2337.5	2230.3	2204.2
50°	7426.6	4066.7	2514.2	2441.8	2467.8	2557.6	2470.7	2349.1	2253.5	2157.9	2172.4
52.5°	7530.9	4139.1	2412.8	2305.6	2352.0	2450.4	2404.1	2256.4	2152.1	2073.9	2050.7
55°	7994.3	4301.3	2241.9	2102.9	2212.9	2337.5	2311.4	2131.8	2018.9	1978.3	1972.5
56°	8066.8	4307.1	2152.1	2033.3	2134.7	2299.8	2268.0	2076.8	1975.4	1911.7	1914.6
57.5°	8078.3	4237.6	2024.7	1969.6	2056.5	2244.8	2204.2	2033.3	1894.3	1836.4	1819.0
60°	7108.0	3307.8	1865.3	1830.6	1932.0	2076.8	2062.3	1914.6	1758.2	1691.6	1723.4
62.5°	4845.8	2424.4	1740.8	1735.0	1787.1	1929.1	1891.4	1758.2	1627.8	1584.4	1564.1
65°	2821.2	1839.3	1619.1	1596.0	1639.4	1714.7	1740.8	1601.8	1465.6	1436.7	1428.0
67.5°	1665.5	1520.7	1462.7	1425.1	1410.6	1456.9	1477.2	1396.1	1260.0	1219.4	1254.2
70°	1393.2	1352.7	1355.6	1291.8	1257.1	1225.2	1207.8	1135.4	1022.5	970.3	955.8
72.5°	1202.0	1184.7	1173.1	1115.2	1083.3	1010.9	935.6	863.2	779.2	735.7	738.6
75°	918.2	912.4	918.2	889.2	834.2	776.3	706.7	614.1	550.3	495.3	506.9
77.5°	547.4	564.8	573.5	561.9	538.7	486.6	443.2	382.3	321.5	278.1	272.3
80°	376.5	391.0	405.5	391.0	367.9	330.2	283.9	237.5	194.1	170.9	165.1
82.5°	286.8	301.2	309.9	295.4	266.5	225.9	194.1	162.2	127.4	104.3	98.5
85°	104.3	118.8	115.9	139.0	150.6	144.8	124.5	95.6	72.4	52.1	49.2
87.5°	29.0	26.1	29.0	29.0	29.0	26.1	23.2	23.2	23.2	14.5	11.6
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)