

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: P648583

Luminaire Tested: **GALN-SA8B-835-U-AFL-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P648583  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-28)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA8B-835-U-AFL-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 32464 lumens  
Efficiency: N/A  
Efficacy: 99.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2

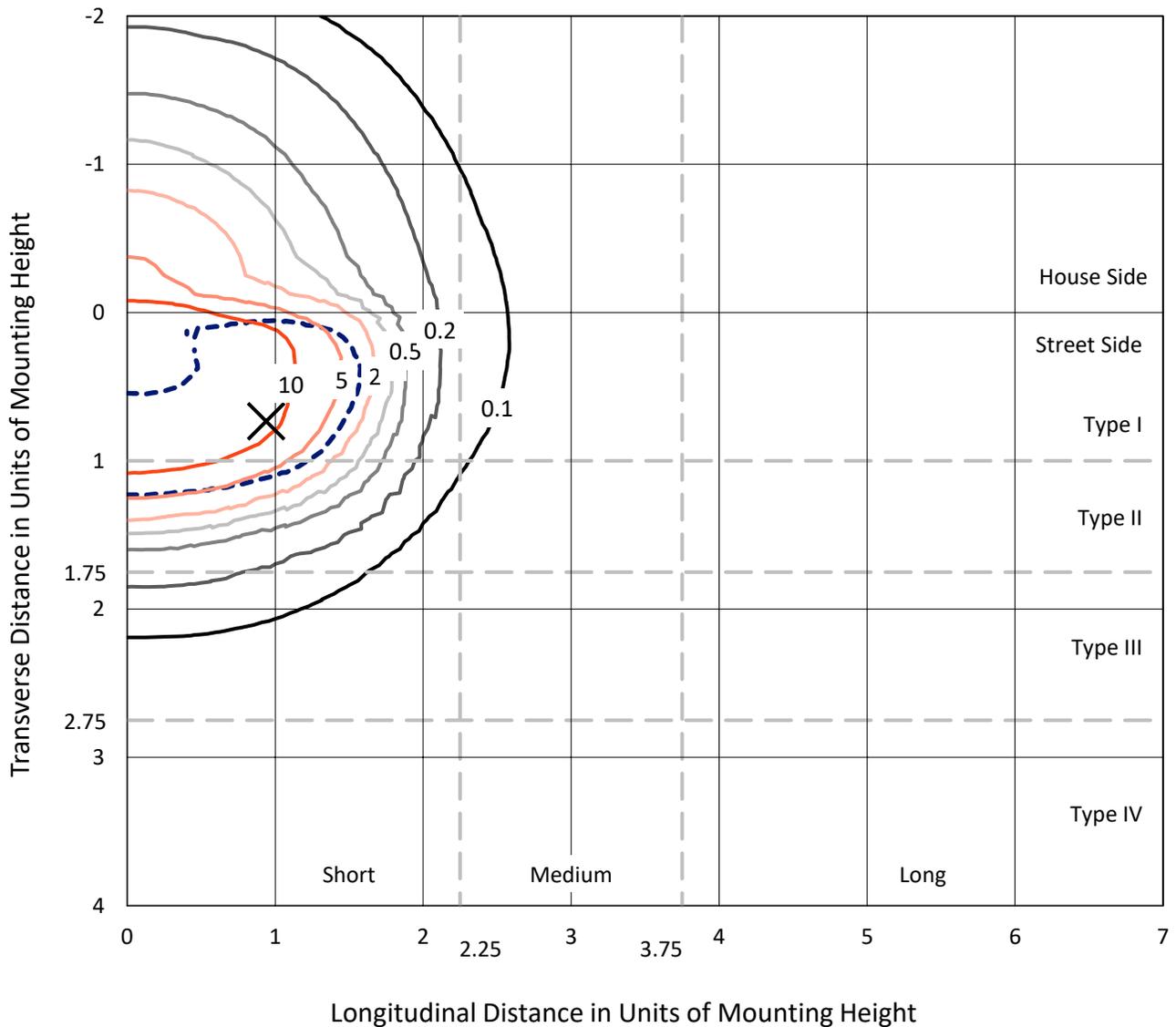
Input Watts (W): 325  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

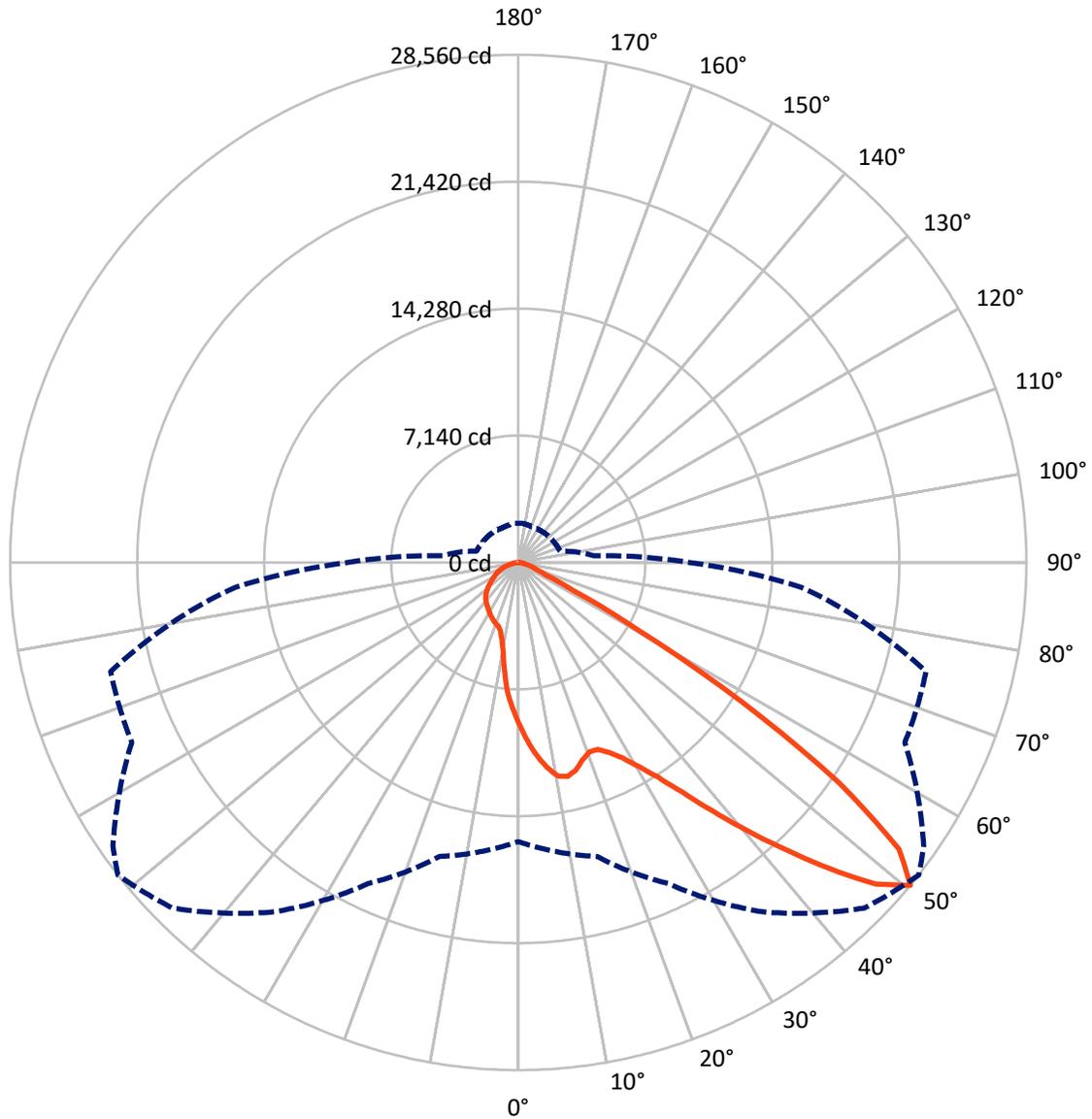
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.7 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral      - - - Horizontal Cone Through 50-Deg Vertical

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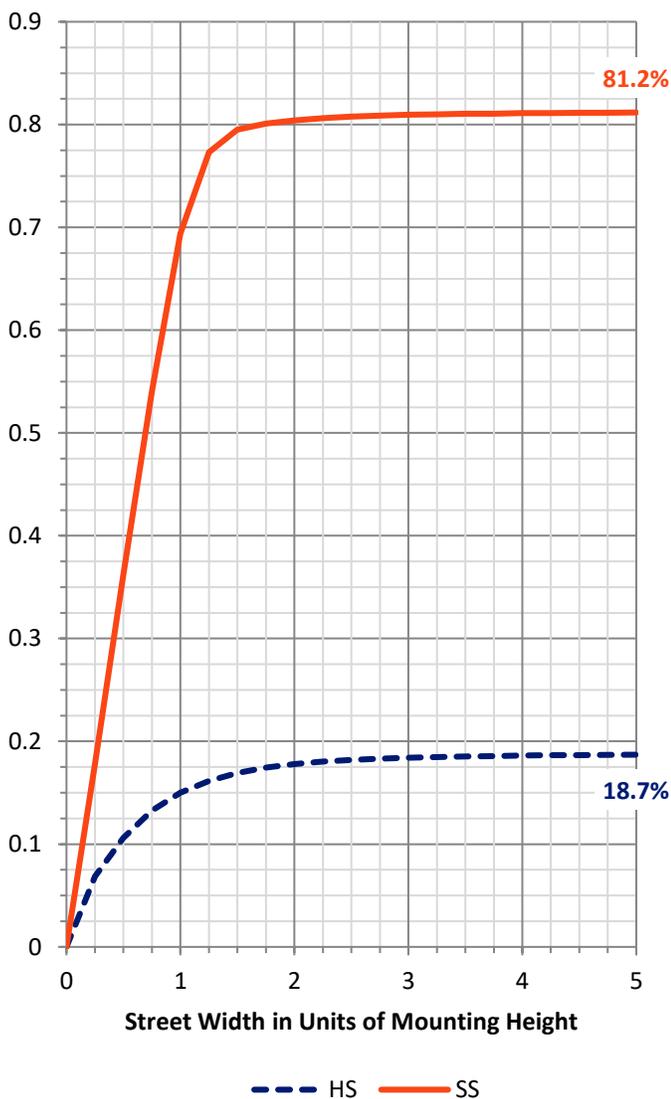
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6102.5	0.0	6102.5
	% Fixture	18.8	0.0	18.8
<b>Street Side</b>	Lumens	26361.5	0.0	26361.5
	% Fixture	81.2	0.0	81.2
<b>Total</b>	Lumens	32464.0	0.0	32464.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	843.5	2.6
10°-20°	2260.7	7.0
20°-30°	3808.0	11.7
30°-40°	6390.1	19.7
40°-50°	9775.3	30.1
50°-60°	7127.0	22.0
60°-70°	1586.1	4.9
70°-80°	572.1	1.8
80°-90°	101.3	0.3
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°	32464.0	100.0
0°-180°	32464.0	100.0

**Coefficient of Utilization**

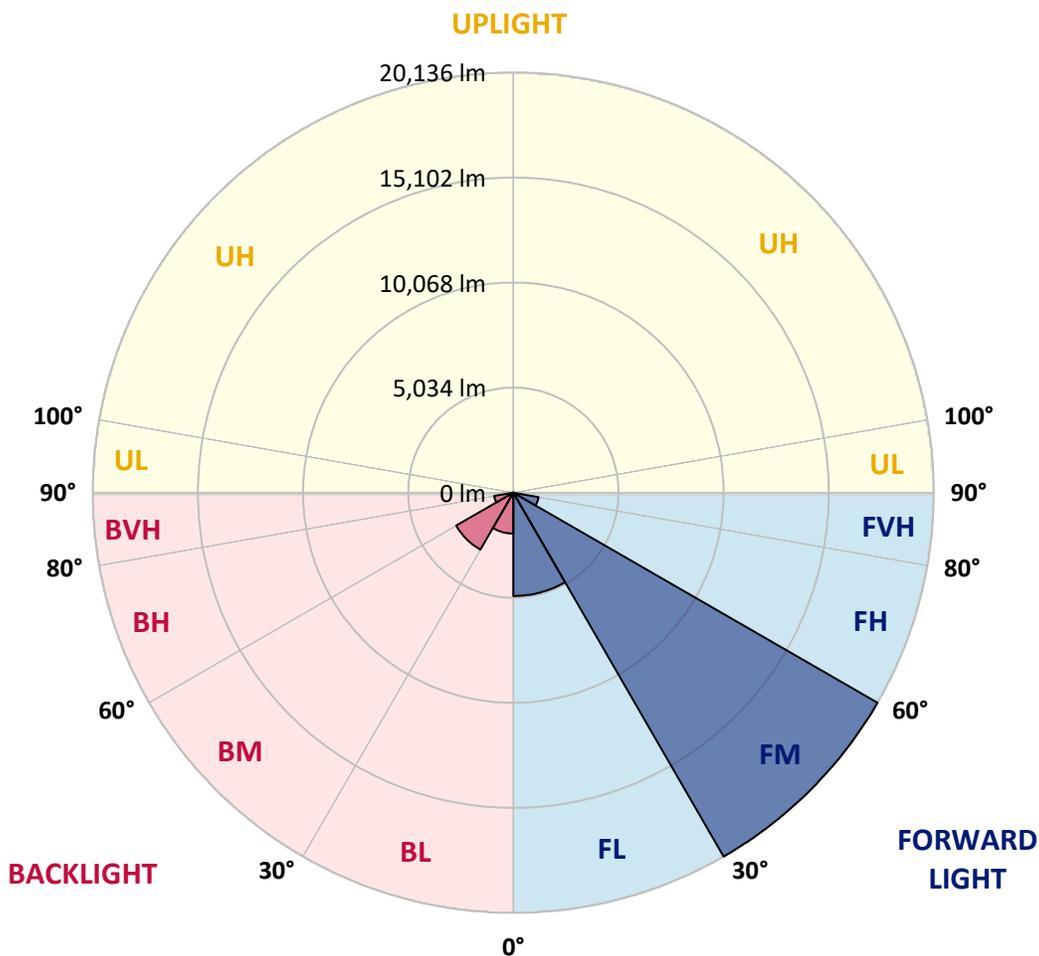


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4951.9	15.3			
FM (30°-60°)	20135.8	62.0			
FH (60°-80°)	1228.5	3.8			G1/1800
FVH (80°-90°)	45.4	0.1			G1/100
BL (0°-30°)	1960.2	6.0	B3/2500		
BM (30°-60°)	3156.6	9.7	B3/5000		
BH (60°-80°)	929.7	2.9	B2/1000		G2/1000
BVH (80°-90°)	55.9	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-G2**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	9151.1	9151.1	9151.1	9151.1	9151.1	9151.1	9151.1	9151.1	9151.1	9151.1	9151.1
2.5°	10774.7	10567.4	10590.8	10442.2	10281.7	10234.7	10070.5	9914.0	9796.6	9546.2	9315.4
5°	11776.2	11713.7	11619.8	11502.4	11381.1	11083.8	10915.6	10719.9	10289.6	9902.2	9518.9
7.5°	11921.0	11909.3	11960.2	11960.2	12003.2	11889.7	11651.0	11514.1	11056.4	10426.5	9714.4
10°	10903.8	10939.0	11185.5	11506.3	11952.3	12261.4	12222.2	12187.1	11686.3	10825.5	9945.3
12.5°	10094.0	10015.7	10160.4	10434.3	11103.3	11850.6	12355.3	12359.2	12230.1	11463.3	10113.5
15°	9636.2	9691.0	9730.1	9859.2	10363.9	11228.5	12116.6	12378.8	12946.0	11913.2	10379.5
17.5°	9929.6	9745.8	9737.9	9769.2	10027.4	10676.9	11674.5	12124.4	13337.3	12492.2	10708.2
20°	10313.0	10309.1	10199.6	10160.4	10156.5	10735.6	11385.1	11995.3	13544.6	13243.4	11040.8
22.5°	10986.0	10986.0	10806.0	10719.9	10536.0	11009.4	11424.1	11838.9	13888.9	13759.8	11201.1
25°	12112.7	11928.8	11619.8	11408.5	11302.8	11471.1	11838.9	12210.6	14190.2	14307.6	11533.7
27.5°	13153.4	12863.9	12711.3	12347.4	12206.7	12108.8	12445.2	12820.8	14542.3	15160.4	11713.7
30°	14334.9	14284.1	14010.2	13540.7	13192.5	13012.6	13321.6	13693.3	15187.9	16032.9	12128.4
32.5°	16447.6	15986.0	15614.3	15039.2	14471.9	14088.4	14393.7	14640.1	16259.9	16944.5	12582.2
35°	18728.6	18579.9	17938.2	16901.4	16032.9	15688.7	15868.6	16052.5	17507.9	18337.3	13345.1
37.5°	20970.4	20766.9	20238.7	19366.3	18309.9	17609.6	17738.7	17953.9	18908.5	20215.3	14276.3
40°	22582.3	22331.9	22065.8	21936.7	20888.2	19929.6	19855.3	19910.1	20802.1	21975.8	15309.1
42.5°	22699.6	23008.7	23090.8	23611.2	23364.7	22578.4	22120.6	22132.4	22609.7	23716.8	16353.7
45°	22453.2	22167.5	22773.9	24194.2	25007.9	25375.7	24604.9	24507.1	23728.6	24726.2	16874.1
47.5°	19867.1	19945.3	20970.4	23216.0	25567.4	27210.6	27030.6	26705.9	24327.2	24691.0	16791.9
50°	15704.3	16177.7	17128.4	19925.7	24002.5	27500.1	28560.4	27809.2	23971.2	23720.8	15954.6
52.5°	10457.8	10653.4	11279.3	14890.5	19299.8	24581.5	26799.8	26971.9	23642.5	22449.2	14894.5
55°	4655.7	4640.1	5520.4	7777.8	12108.8	18705.1	21897.6	22946.1	22378.8	21154.2	13861.5
57.5°	1971.8	2038.4	2398.3	3360.7	5954.6	11287.2	14835.7	15755.1	17210.6	17370.9	10633.8
60°	1334.2	1342.0	1439.8	1682.4	2492.2	5301.3	7781.7	8885.0	9925.7	9855.3	5641.7
62.5°	1048.5	1075.9	1150.2	1248.0	1478.9	2406.1	3482.0	4096.3	4162.7	3501.6	2140.1
65°	895.9	899.8	974.2	1056.3	1158.1	1400.6	1678.4	1709.7	1729.3	1666.7	1572.8
67.5°	739.5	747.3	805.9	899.8	993.7	1072.0	1150.2	1189.4	1279.3	1455.4	1432.0
70°	586.9	598.6	649.4	727.7	813.8	860.8	958.5	993.7	1075.9	1212.9	1267.6
72.5°	446.0	449.9	493.0	547.7	626.0	672.9	755.1	794.2	849.0	966.4	1017.2
75°	320.8	332.5	363.9	391.3	403.0	434.3	512.6	555.5	633.8	684.7	688.6
77.5°	168.3	176.0	183.8	183.8	223.0	281.7	332.5	356.0	410.8	449.9	430.3
80°	66.5	70.4	90.0	121.3	156.5	203.4	238.7	250.4	297.3	320.8	332.5
82.5°	39.2	43.1	58.6	86.1	113.5	144.8	172.2	183.8	215.2	242.6	250.4
85°	19.6	23.5	35.2	54.8	74.3	90.0	86.1	82.1	82.1	78.2	82.1
87.5°	7.8	7.8	11.7	11.7	11.7	15.7	19.6	19.6	19.6	23.5	23.5
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°	9151.1	9151.1	9151.1	9151.1	9151.1	9151.1	9151.1	9151.1	9151.1	9151.1	9151.1
2.5°	9162.8	9006.3	8861.5	8595.5	8306.0	8223.8	7887.4	7766.1	7680.0	7578.3	7546.9
5°	9209.7	9002.4	8536.8	8000.9	7574.4	7026.6	6666.7	6279.3	5997.7	5927.2	5907.7
7.5°	9307.5	8951.5	8149.5	7339.6	6467.2	5723.8	5156.5	4851.3	4581.4	4565.8	4538.3
10°	9417.1	8799.0	7727.0	6455.4	5340.4	4651.8	4311.4	4178.4	4111.9	4096.3	4088.4
12.5°	9507.1	8767.6	7253.6	5594.7	4542.3	4127.6	4025.9	4014.1	4041.5	4049.3	4064.9
15°	9546.2	8642.4	6682.4	4824.0	4045.4	3892.8	3935.8	3982.8	4002.4	4053.2	4014.1
17.5°	9620.6	8482.0	5978.1	4213.6	3767.6	3795.0	3869.4	3924.1	3955.4	3990.6	3939.7
20°	9659.6	8337.3	5316.9	3849.8	3669.8	3720.7	3822.4	3865.4	3904.6	3920.2	3861.5
22.5°	9624.5	8039.9	4733.9	3556.4	3575.9	3642.4	3732.4	3779.4	3755.9	3693.3	3658.1
25°	9530.5	7621.3	4127.6	3368.5	3442.9	3560.3	3630.7	3595.5	3552.5	3517.2	3505.5
27.5°	9526.6	7108.8	3689.3	3196.4	3329.5	3489.8	3466.3	3435.1	3454.6	3427.3	3395.9
30°	9546.2	6611.9	3329.5	3098.6	3247.3	3325.6	3352.9	3321.6	3345.1	3294.2	3309.9
32.5°	9444.5	6126.8	3094.7	2985.1	3149.5	3145.5	3235.5	3259.0	3204.3	3098.6	3114.2
35°	9487.5	5735.6	2895.1	2934.3	3039.9	3039.9	3110.3	3083.0	2938.2	2875.6	2891.2
37.5°	9784.8	5352.1	2797.3	2863.8	2934.3	2965.6	2942.1	2824.8	2789.5	2789.5	2797.3
40°	10066.6	5023.5	2738.7	2848.2	2836.5	2856.1	2683.9	2695.6	2695.6	2699.5	2680.0
42.5°	10317.0	4800.5	2691.7	2754.3	2773.9	2672.1	2566.5	2554.8	2582.2	2578.3	2562.6
45°	10406.9	4616.6	2625.2	2648.7	2664.3	2496.1	2445.2	2421.7	2453.1	2464.8	2480.5
47.5°	10062.6	4464.0	2550.9	2504.0	2472.6	2363.1	2296.5	2253.6	2292.6	2359.2	2374.8
50°	9620.6	4264.5	2433.5	2343.5	2277.0	2230.1	2183.1	2140.1	2167.4	2214.4	2202.7
52.5°	8967.2	3951.5	2284.8	2190.9	2077.5	2089.2	2046.1	2022.7	2038.4	2038.4	2026.6
55°	8036.0	3247.3	2034.5	1967.9	1874.0	1905.4	1913.2	1881.9	1850.5	1877.9	1854.5
57.5°	5485.1	2292.6	1815.3	1815.3	1721.4	1764.5	1760.6	1686.3	1611.9	1619.7	1604.1
60°	3173.0	1827.1	1674.5	1658.9	1561.1	1596.2	1604.1	1553.2	1439.8	1447.6	1432.0
62.5°	1803.6	1561.1	1463.2	1439.8	1420.2	1451.5	1451.5	1385.0	1287.2	1295.0	1279.3
65°	1533.7	1447.6	1306.7	1302.8	1295.0	1302.8	1271.5	1201.1	1115.0	1079.8	1083.8
67.5°	1392.8	1338.1	1201.1	1165.9	1142.4	1138.5	1079.8	1013.3	974.2	942.9	939.0
70°	1220.7	1177.6	1075.9	1028.9	1005.5	950.7	892.0	849.0	794.2	778.5	794.2
72.5°	966.4	962.5	923.3	872.5	821.6	778.5	727.7	669.0	618.2	606.4	579.0
75°	669.0	676.8	684.7	676.8	633.8	579.0	520.4	473.4	410.8	375.6	367.8
77.5°	438.2	449.9	461.7	446.0	418.6	367.8	328.6	270.0	223.0	195.6	191.7
80°	320.8	336.5	344.3	332.5	301.2	262.1	219.1	172.2	136.9	113.5	113.5
82.5°	246.5	262.1	270.0	250.4	219.1	187.8	156.5	121.3	93.9	74.3	70.4
85°	86.1	82.1	97.8	101.7	121.3	113.5	93.9	70.4	54.8	39.2	35.2
87.5°	23.5	23.5	27.4	27.4	23.5	19.6	19.6	19.6	15.7	11.7	11.7
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)