

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: P651865

Luminaire Tested: **GALN-SA4A-840-U-T3R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651865
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-12)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4A-840-U-T3R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13281.1 lumens
Efficiency: N/A
Efficacy: 109.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

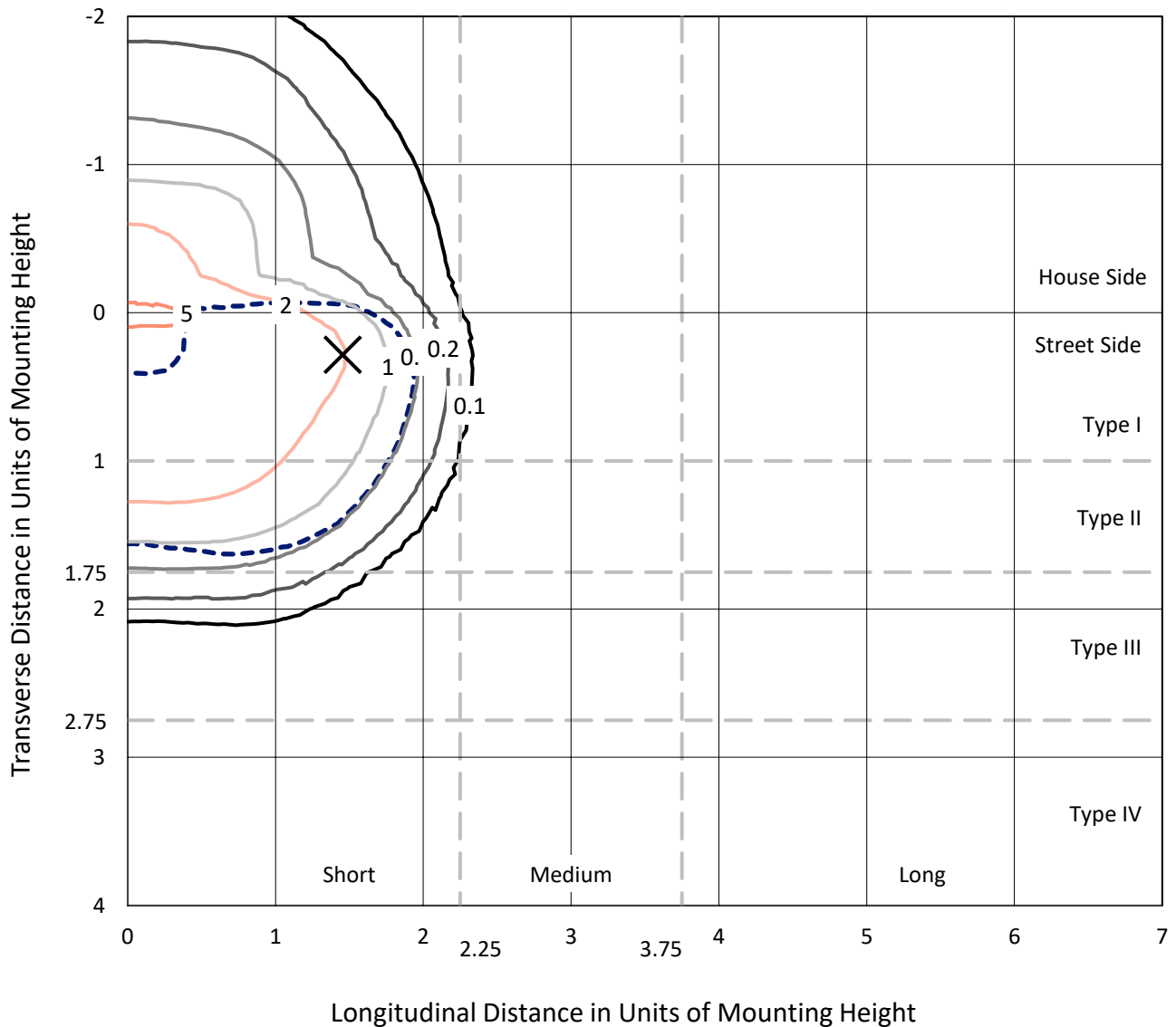
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

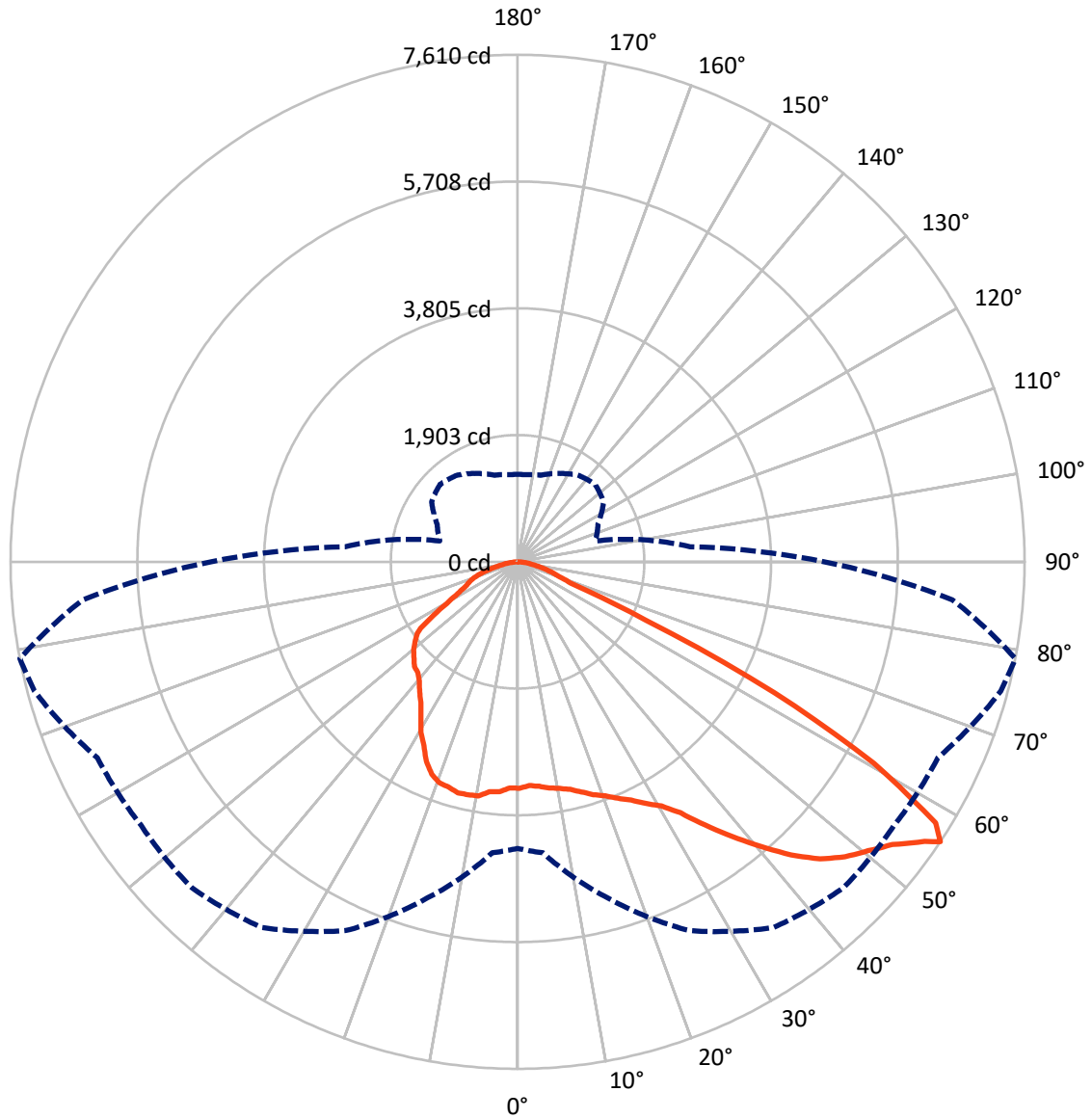
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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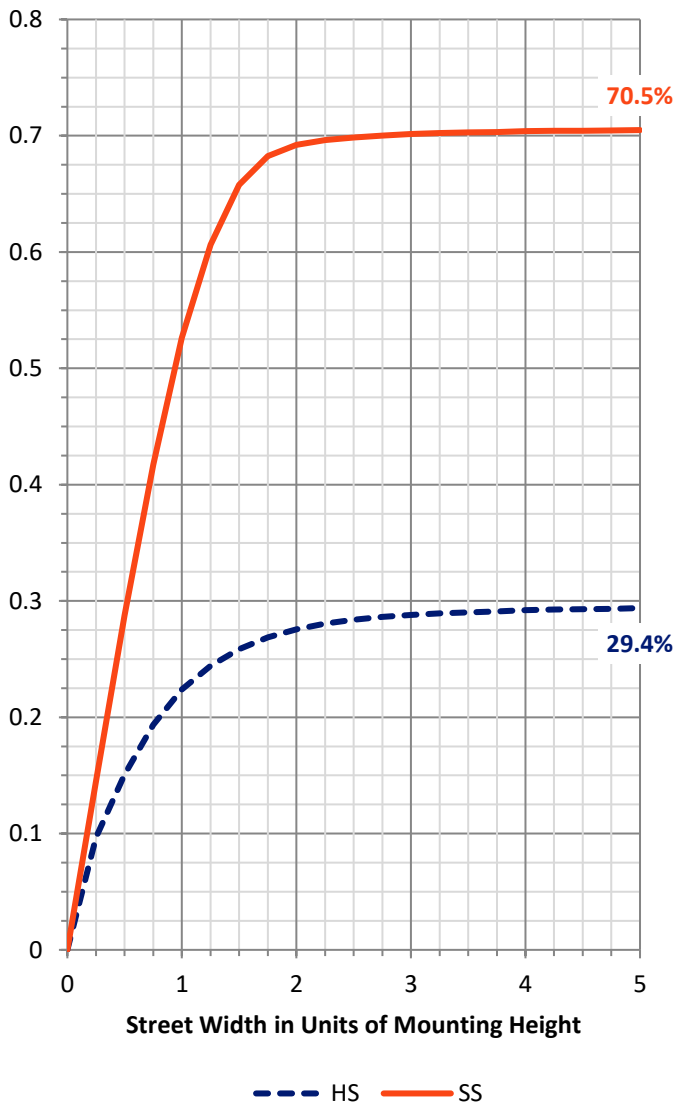
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3922.2	0.0	3922.2
	% Fixture	29.5	0.0	29.5
Street Side	Lumens	9358.9	0.0	9358.9
	% Fixture	70.5	0.0	70.5
Total	Lumens	13281.1	0.0	13281.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	309.0	2.3
10°-20°	845.5	6.4
20°-30°	1446.5	10.9
30°-40°	2217.0	16.7
40°-50°	2996.2	22.6
50°-60°	3441.3	25.9
60°-70°	1568.6	11.8
70°-80°	386.7	2.9
80°-90°	70.3	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°	13281.1	100.0
0°-180°	13281.1	100.0

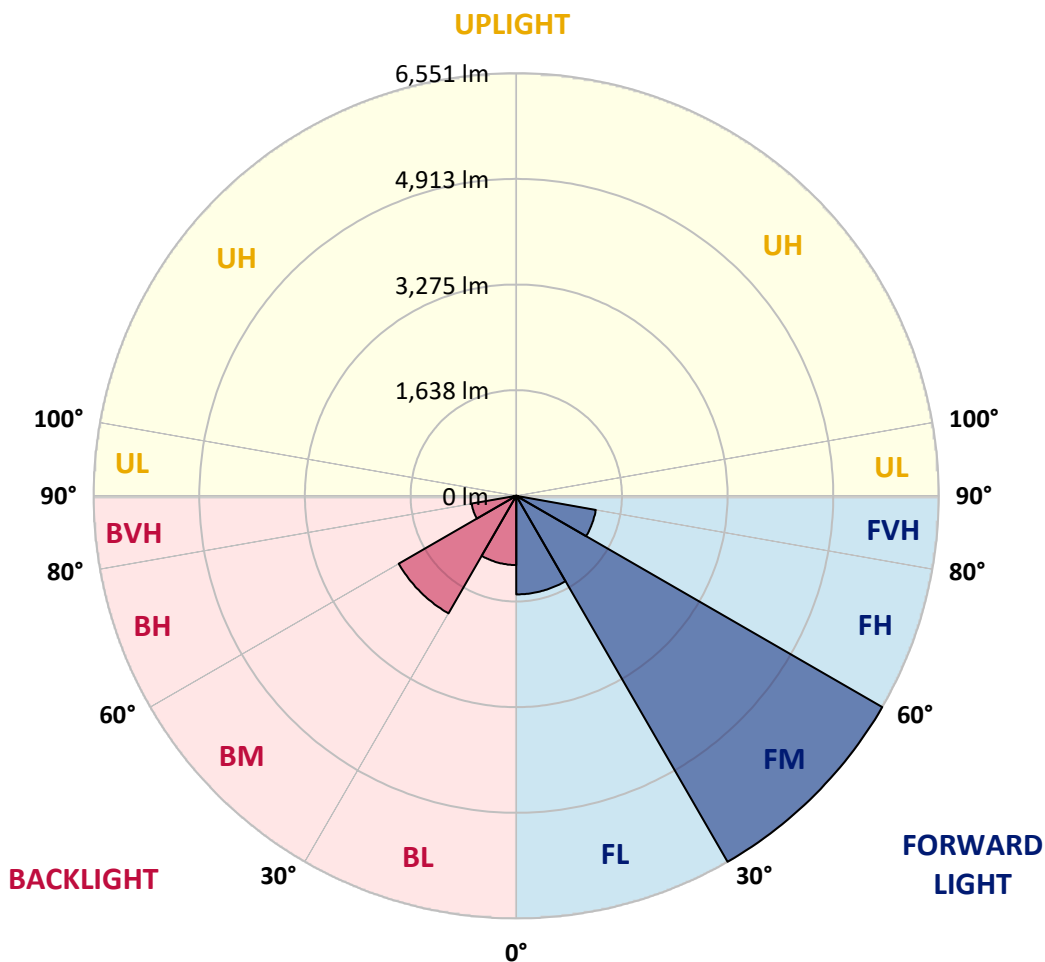


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1528.1	11.5			
FM (30°-60°)	6550.6	49.3			
FH (60°-80°)	1252.1	9.4			G1/1800
FVH (80°-90°)	28.1	0.2			G1/100
BL (0°-30°)	1072.9	8.1	B3/2500		
BM (30°-60°)	2103.8	15.8	B2/2500		
BH (60°-80°)	703.3	5.3	B2/1000		G2/1000
BVH (80°-90°)	42.2	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-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	3398.1	3398.1	3398.1	3398.1	3398.1	3398.1	3398.1	3398.1	3398.1	3398.1	3398.1
2.5°	3232.6	3224.4	3244.2	3259.1	3277.3	3300.5	3312.1	3318.7	3376.6	3361.7	3406.4
5°	3163.2	3141.6	3156.5	3168.1	3199.6	3227.7	3259.1	3308.7	3361.7	3384.9	3439.4
7.5°	3101.9	3090.4	3087.1	3095.4	3138.4	3174.8	3229.4	3302.2	3388.1	3426.2	3457.7
10°	3001.0	2984.5	3009.4	3063.9	3075.5	3151.6	3214.5	3318.7	3393.1	3459.3	3552.0
12.5°	2956.4	2939.8	2944.8	2976.2	3057.3	3130.1	3204.5	3322.0	3479.1	3505.6	3629.7
15°	3027.5	3010.9	3015.9	3007.7	3085.5	3123.5	3241.0	3388.1	3538.8	3583.4	3715.7
17.5°	3189.7	3191.3	3169.8	3151.6	3133.4	3214.5	3295.5	3427.9	3561.9	3674.4	3773.7
20°	3499.0	3444.4	3401.4	3298.8	3270.7	3305.5	3408.1	3535.4	3656.2	3748.8	3861.4
22.5°	3737.2	3742.2	3681.0	3512.3	3451.0	3465.9	3553.6	3657.8	3790.2	3856.4	3985.4
25°	4083.1	4048.2	3982.1	3848.1	3710.7	3722.4	3786.9	3881.2	3917.5	3963.9	4104.5
27.5°	4399.0	4408.9	4278.3	4152.5	3982.1	3949.0	4064.8	4081.4	4020.1	4107.9	4155.8
30°	4719.9	4711.7	4625.7	4478.4	4311.3	4317.9	4369.2	4288.2	4203.8	4251.8	4284.8
32.5°	5052.5	4958.2	4954.8	4822.5	4695.1	4633.9	4571.1	4610.8	4480.1	4490.0	4458.6
35°	5318.8	5332.1	5256.0	5161.6	5098.8	4991.3	4819.2	4890.3	4865.5	4853.9	4718.3
37.5°	5512.4	5461.1	5499.1	5467.8	5408.1	5274.2	5095.5	5163.3	5174.9	5231.2	5074.0
40°	5671.2	5649.8	5750.6	5767.2	5725.8	5436.3	5115.4	5317.2	5490.9	5613.3	5426.4
42.5°	5747.3	5793.6	5899.5	6026.9	5934.3	5624.9	5217.9	5434.6	5821.7	6015.3	5760.6
45°	5849.9	5790.4	5947.5	6180.8	6182.4	5783.7	5317.2	5593.5	6079.8	6361.1	5988.8
47.5°	5745.6	5775.5	5937.5	6233.7	6309.8	5950.8	5585.2	5818.5	6364.4	6614.2	6200.6
50°	5512.4	5572.0	5868.1	6175.8	6405.7	6127.9	5892.9	6061.7	6627.4	6817.7	6235.3
52.5°	5269.2	5302.3	5765.6	6220.5	6448.8	6356.1	6304.8	6397.5	6948.4	7047.7	6278.4
55°	4607.4	4764.6	5426.4	6200.6	6658.9	6768.1	6728.3	6864.0	7312.3	7411.6	6513.3
56°	4301.4	4384.1	5222.9	6108.0	6700.2	6918.7	6898.8	6959.9	7505.9	7610.1	6549.7
57.5°	3735.6	3742.2	4453.6	5697.7	6544.7	6963.3	6943.5	6991.4	7467.9	7396.8	6230.4
60°	2337.6	2440.2	3030.8	4382.5	5565.3	6460.4	6572.8	6187.4	6296.6	6146.0	4847.4
62.5°	1211.0	1196.2	1588.2	2562.6	3694.3	4625.7	4729.9	4711.7	4542.9	4322.9	3166.4
65°	603.8	607.1	830.5	1268.9	1892.6	2422.0	2713.2	2744.6	2296.3	2112.7	1502.2
67.5°	438.4	455.0	597.2	775.9	891.7	997.6	1222.6	1199.4	908.3	863.6	800.7
70°	340.8	355.7	484.8	592.2	537.7	537.7	585.7	605.5	646.9	665.1	686.6
72.5°	248.2	259.7	370.5	408.6	352.4	378.9	438.4	484.8	527.7	534.4	559.2
75°	170.4	180.3	243.2	225.0	211.8	261.4	320.9	364.0	395.4	411.9	426.8
77.5°	110.8	114.1	138.9	117.5	135.7	168.8	208.5	244.8	276.3	289.6	292.8
80°	49.6	54.6	59.5	74.4	94.3	120.8	148.9	178.7	198.6	203.5	213.4
82.5°	28.1	28.1	36.4	52.9	69.5	87.7	107.6	129.0	152.2	157.2	155.5
85°	14.9	14.9	21.5	31.5	43.0	51.3	49.6	51.3	54.6	62.9	61.2
87.5°	5.0	5.0	6.6	6.6	8.2	9.9	8.2	11.6	14.9	14.9	14.9
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°	3398.1	3398.1	3398.1	3398.1	3398.1	3398.1	3398.1	3398.1	3398.1	3398.1	3398.1
2.5°	3393.1	3408.1	3388.1	3431.2	3431.2	3423.0	3381.6	3394.8	3404.7	3404.7	3413.0
5°	3457.7	3452.7	3465.9	3414.6	3383.2	3371.7	3303.8	3270.7	3242.6	3241.0	3216.2
7.5°	3494.0	3480.8	3475.9	3437.8	3298.8	3214.5	3068.9	2984.5	2966.3	2901.8	2926.6
10°	3552.0	3576.8	3552.0	3345.2	3151.6	2958.0	2815.8	2685.1	2633.8	2592.4	2567.6
12.5°	3671.0	3659.5	3515.5	3236.0	2964.7	2734.7	2522.9	2385.6	2334.4	2297.9	2294.7
15°	3772.0	3714.1	3494.0	3063.9	2673.5	2428.6	2254.9	2157.3	2134.1	2137.5	2152.4
17.5°	3806.7	3767.0	3381.6	2885.2	2456.7	2168.9	2087.9	2073.0	2094.4	2119.2	2125.9
20°	3861.4	3798.5	3335.2	2642.1	2188.8	2006.8	2001.8	2054.7	2094.4	2130.8	2135.8
22.5°	3975.5	3816.6	3184.7	2412.1	2005.1	1958.8	2006.8	2051.5	2112.7	2142.4	2116.0
25°	4008.5	3776.9	2972.9	2135.8	1889.3	1929.0	1980.3	2041.5	2084.5	2101.1	2112.7
27.5°	4036.7	3715.7	2686.7	1952.1	1852.9	1927.3	1980.3	2031.6	2054.7	2069.6	2082.9
30°	4116.1	3697.5	2438.6	1829.8	1829.8	1894.3	1962.1	1975.3	2006.8	2025.0	2048.1
32.5°	4155.8	3571.8	2183.8	1752.0	1806.6	1910.8	1915.8	1940.6	1942.2	1957.2	1932.3
35°	4260.0	3482.5	1947.2	1695.7	1816.5	1894.3	1919.1	1904.2	1823.1	1783.4	1791.7
37.5°	4336.1	3437.8	1776.8	1689.1	1818.2	1912.4	1925.7	1813.2	1728.8	1662.7	1679.2
40°	4541.3	3327.0	1647.8	1677.5	1833.0	1932.3	1896.0	1773.5	1621.3	1553.5	1541.9
42.5°	4698.4	3247.5	1566.7	1664.3	1844.6	1960.5	1881.1	1694.1	1538.6	1475.7	1492.3
45°	4880.4	3229.4	1523.7	1667.6	1864.5	1975.3	1862.8	1632.9	1467.5	1442.7	1437.7
47.5°	4944.9	3098.7	1477.4	1639.5	1859.5	1970.4	1801.6	1586.5	1441.0	1444.2	1457.5
50°	4837.4	2964.7	1442.7	1581.6	1826.4	1925.7	1705.6	1525.3	1426.1	1467.5	1490.6
52.5°	4700.1	2827.4	1371.5	1503.8	1758.6	1856.3	1661.0	1522.0	1411.2	1398.0	1403.0
55°	4741.5	2714.8	1272.2	1398.0	1649.5	1727.2	1611.4	1490.6	1374.8	1325.2	1341.7
56°	4607.4	2599.0	1207.7	1331.8	1574.9	1644.5	1586.5	1462.5	1345.0	1312.0	1312.0
57.5°	4228.6	2210.2	1123.3	1225.9	1417.8	1500.5	1538.6	1445.9	1312.0	1254.0	1255.7
60°	3118.5	1571.7	1007.5	1080.3	1174.6	1240.8	1417.8	1399.6	1229.2	1189.5	1174.6
62.5°	1922.4	1148.1	924.8	952.9	1000.9	1055.5	1237.4	1267.2	1141.5	1098.5	1088.6
65°	1077.0	878.5	861.9	873.5	896.7	924.8	1027.4	1093.6	1007.5	941.3	938.1
67.5°	787.5	785.8	799.0	809.0	818.9	818.9	843.8	870.2	858.7	805.7	800.7
70°	699.8	704.8	714.7	716.4	719.6	708.0	688.2	679.9	693.2	660.1	653.5
72.5°	577.3	593.9	605.5	607.1	589.0	574.1	547.6	519.5	509.6	502.9	501.2
75°	443.4	455.0	459.9	458.3	451.6	430.2	398.7	370.5	352.4	332.5	342.5
77.5°	299.5	316.0	324.3	324.3	314.4	281.2	266.3	244.8	226.6	205.1	208.5
80°	210.1	221.7	234.9	233.3	216.7	200.2	178.7	158.8	143.9	127.4	125.7
82.5°	157.2	163.7	170.4	167.1	155.5	138.9	124.0	105.9	89.3	77.8	77.8
85°	56.3	61.2	74.4	77.8	84.4	84.4	71.1	59.5	47.9	39.7	39.7
87.5°	16.6	16.6	18.2	18.2	16.6	18.2	14.9	16.6	18.2	11.6	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)