

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: P652025

Luminaire Tested: **GALN-SA7A-840-U-T2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P652025
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7A-840-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26940.6 lumens
Efficiency: N/A
Efficacy: 125.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

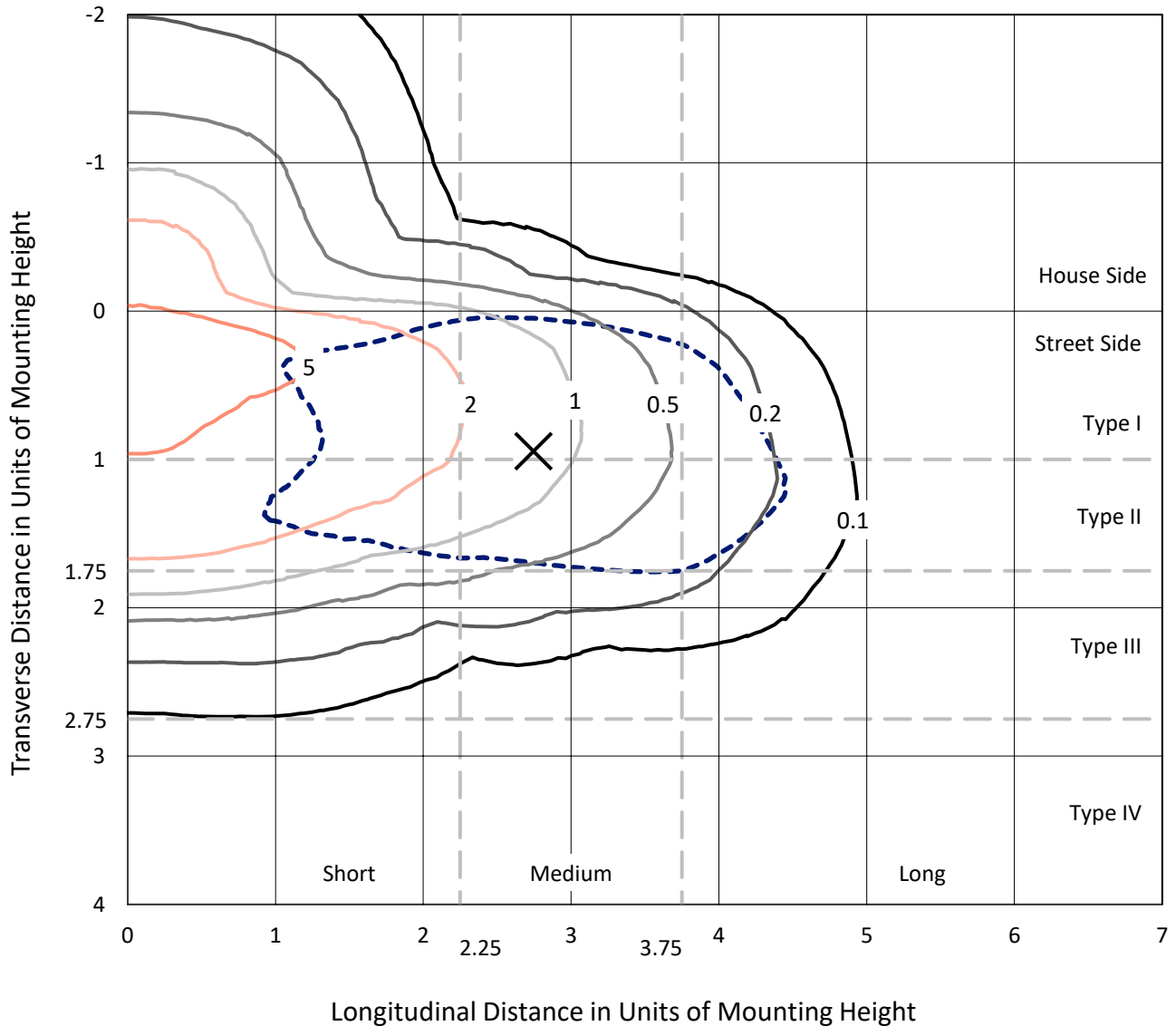
Input Watts (W): 215
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

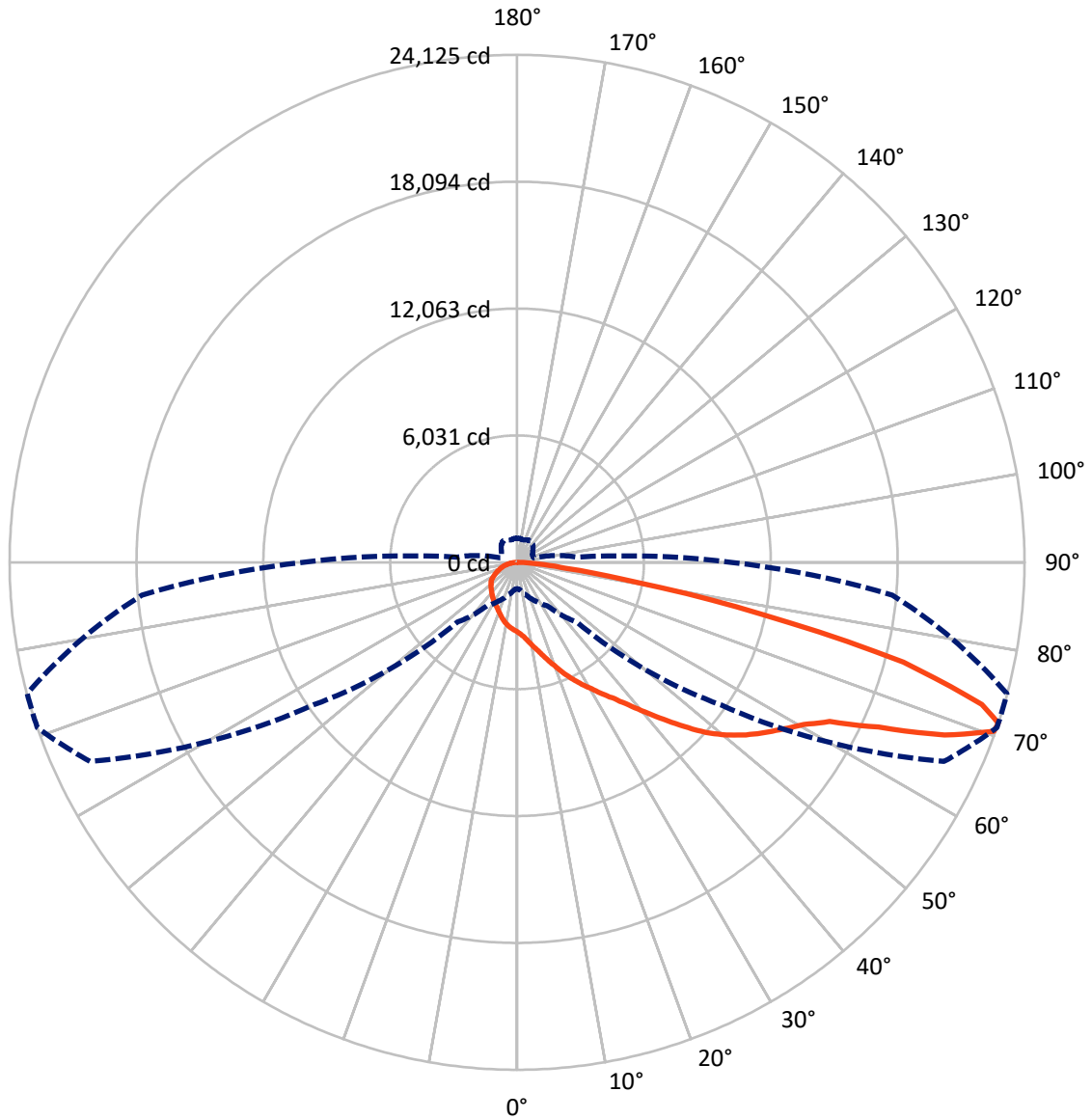
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 71-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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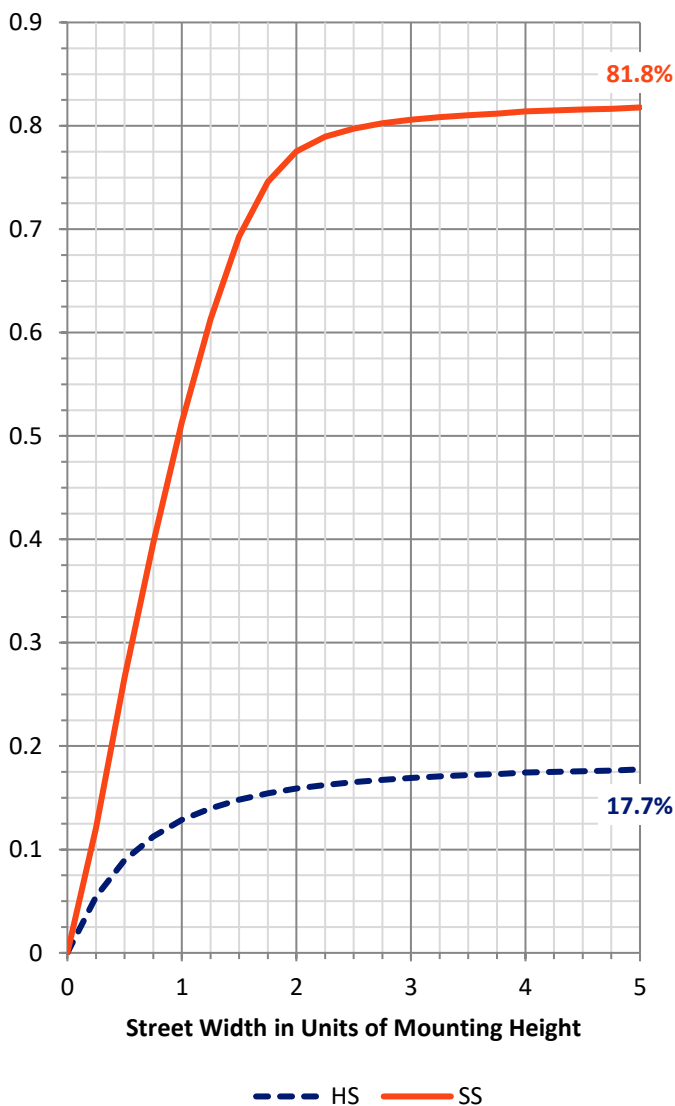
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4845.2	0.0	4845.2
	% Fixture	18.0	0.0	18.0
Street Side	Lumens	22095.4	0.0	22095.4
	% Fixture	82.0	0.0	82.0
Total	Lumens	26940.6	0.0	26940.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	332.0	1.2
10°-20°	1078.6	4.0
20°-30°	1884.9	7.0
30°-40°	2803.6	10.4
40°-50°	4130.8	15.3
50°-60°	5783.1	21.5
60°-70°	6468.2	24.0
70°-80°	3951.0	14.7
80°-90°	508.3	1.9
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°	26940.6	100.0
0°-180°	26940.6	100.0

Coefficient of Utilization

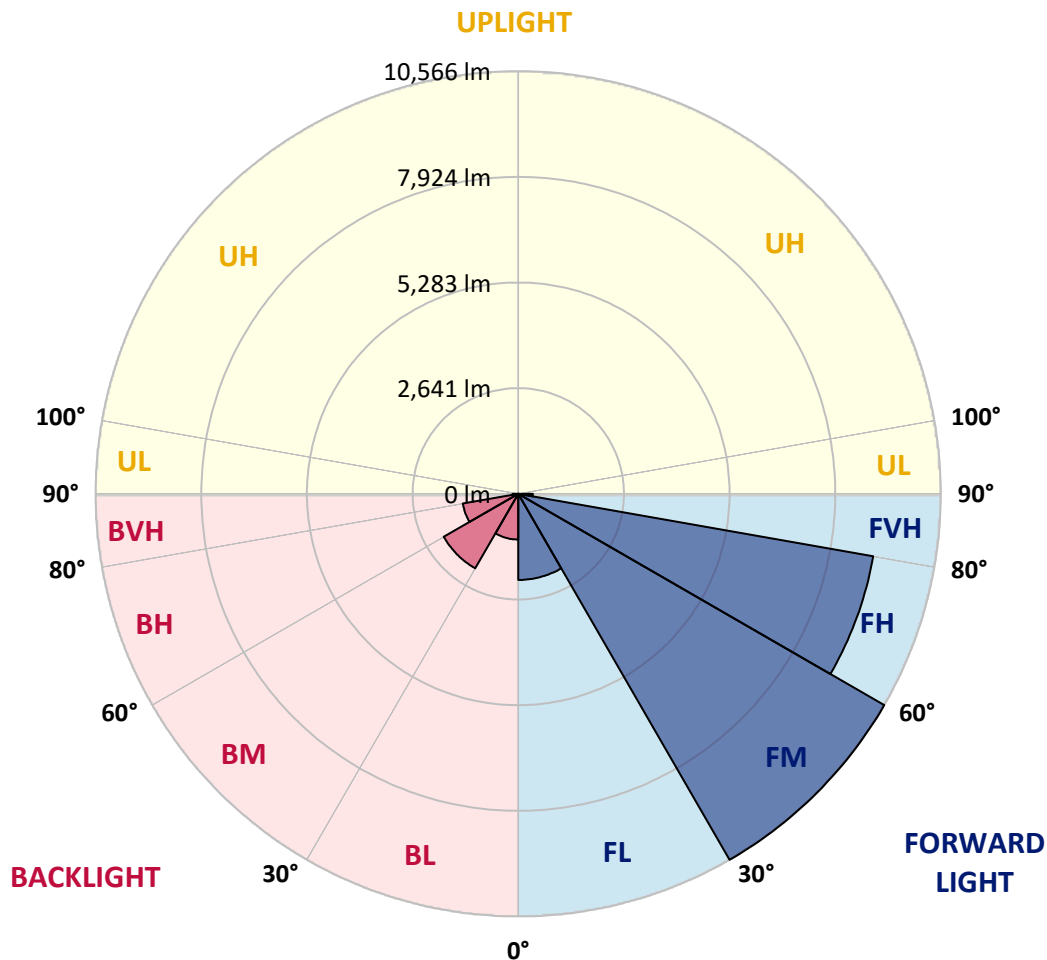


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2152.6	8.0			
FM (30°-60°)	10565.6	39.2			
FH (60°-80°)	9011.5	33.4			G4/12000
FVH (80°-90°)	365.7	1.4			G3/500
BL (0°-30°)	1143.0	4.2	B3/2500		
BM (30°-60°)	2151.9	8.0	B2/2500		
BH (60°-80°)	1407.7	5.2	B3/2500		G3/2500
BVH (80°-90°)	142.5	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4
 Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	3306.4	3306.4	3306.4	3306.4	3306.4	3306.4	3306.4	3306.4	3306.4	3306.4	3306.4
2.5°	3670.7	3652.9	3654.4	3629.3	3596.6	3561.1	3510.8	3466.3	3430.8	3410.1	3349.4
5°	4067.5	4049.8	4027.5	3972.7	3949.1	3861.7	3750.6	3649.9	3573.0	3530.0	3408.6
7.5°	4388.8	4384.4	4378.5	4347.4	4286.7	4165.2	4070.4	3895.8	3781.7	3700.3	3493.0
10°	4587.2	4594.6	4599.1	4605.0	4579.8	4516.2	4385.9	4165.2	4020.1	3916.5	3602.6
12.5°	4687.9	4695.3	4720.5	4775.3	4809.3	4801.9	4695.3	4479.2	4279.3	4143.0	3719.6
15°	4750.1	4762.0	4806.4	4879.0	4992.9	5065.5	5013.7	4813.8	4594.6	4433.2	3858.8
17.5°	4818.3	4831.5	4880.4	4984.1	5133.6	5290.6	5346.8	5175.1	4936.7	4744.2	4014.2
20°	4856.7	4874.5	4944.1	5080.3	5255.1	5483.1	5669.6	5579.3	5318.7	5105.5	4193.4
22.5°	4918.9	4933.7	4992.9	5138.1	5346.8	5632.6	5992.5	5973.2	5743.7	5468.3	4390.3
25°	5087.7	5111.4	5141.0	5228.4	5429.7	5785.2	6260.4	6393.7	6155.3	5847.3	4570.9
27.5°	5406.0	5425.3	5423.9	5435.7	5549.7	5916.9	6492.9	6809.8	6564.0	6230.8	4745.7
30°	5768.8	5776.2	5782.2	5755.6	5780.7	6051.7	6706.1	7221.4	6975.6	6624.7	4898.2
32.5°	6210.1	6224.9	6174.5	6106.4	6085.7	6251.6	6882.3	7633.1	7462.8	7024.5	5049.2
35°	6731.3	6769.8	6667.6	6547.7	6463.3	6538.9	7119.2	8053.6	7961.7	7535.4	5249.1
37.5°	7326.5	7374.0	7279.2	7043.7	6923.8	6944.6	7428.7	8573.3	8592.6	8117.2	5546.7
40°	7813.7	7875.9	7878.8	7545.7	7363.5	7387.3	7821.1	9133.0	9353.7	8836.9	5897.7
42.5°	8135.0	8195.7	8259.4	8063.9	7872.9	8007.7	8278.6	9740.1	10209.5	9710.5	6387.8
45°	8487.5	8542.2	8577.8	8488.9	8382.3	8731.8	8830.9	10385.7	11121.6	10686.3	6923.8
47.5°	8896.1	8956.8	8990.9	8906.4	8866.5	9367.0	9426.2	10988.3	12095.9	11634.0	7516.1
50°	9441.0	9486.9	9469.2	9415.8	9406.9	9854.2	9997.7	11552.5	12899.9	12654.2	8130.6
52.5°	10119.2	10174.0	10193.2	10117.7	10083.7	10202.1	10458.3	12066.3	13631.4	13530.8	8786.5
55°	10529.3	10616.7	10909.9	11028.4	11109.8	10652.2	10954.3	12633.4	14287.4	14454.7	9491.4
57.5°	10003.7	10116.2	10772.2	11364.4	12130.0	11777.5	11657.6	13225.7	14943.3	15350.5	10335.4
60°	8721.4	8746.6	9592.0	10683.3	12223.3	13224.2	13125.0	14167.4	15654.0	16253.8	11447.4
62.5°	6050.2	6103.5	7103.0	8844.3	11071.3	13745.5	15621.5	15793.2	16672.8	17605.7	13077.6
65°	3119.9	3050.2	3960.9	5558.6	8346.8	12507.5	17644.2	18782.8	18882.0	19720.1	15372.7
67.5°	1920.5	1951.5	2378.0	3245.8	4935.2	9090.1	17432.4	22435.7	21913.0	22315.8	17503.5
70°	1442.2	1480.7	1773.9	2221.1	3008.8	5197.3	14019.4	23321.2	24051.2	23947.6	18152.1
71°	1254.2	1294.1	1599.2	2021.2	2527.5	4011.2	11811.6	22394.2	24125.2	24107.4	17907.7
72.5°	1069.1	1094.2	1332.6	1711.7	2130.8	2811.9	8873.9	20084.3	23096.1	23686.9	17035.5
75°	839.6	858.8	965.4	1306.0	1677.6	1726.5	4762.0	15057.3	18969.3	20094.7	14182.2
77.5°	684.1	697.4	752.2	969.8	1294.1	1223.1	2497.9	9800.8	11884.2	13016.9	8354.2
80°	543.5	558.3	590.8	657.4	969.8	872.1	1191.9	4966.3	5740.8	5728.9	3334.6
82.5°	422.0	426.5	464.9	482.7	663.4	619.0	645.6	2102.6	2329.1	2406.2	1203.8
85°	266.5	279.9	411.7	370.2	396.9	362.8	318.3	835.1	1029.1	1014.2	481.2
87.5°	81.4	85.9	139.2	156.9	176.2	158.4	117.0	245.8	300.6	325.7	119.9
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°	3306.4	3306.4	3306.4	3306.4	3306.4	3306.4	3306.4	3306.4	3306.4	3306.4	3306.4
2.5°	3325.7	3309.4	3251.6	3204.3	3159.8	3110.9	3069.5	3057.7	3047.3	3042.8	3041.4
5°	3356.8	3307.9	3193.9	3100.6	3026.6	2958.5	2915.5	2896.2	2877.1	2877.1	2882.9
7.5°	3401.2	3312.4	3136.2	2997.0	2903.6	2840.0	2808.9	2805.9	2810.4	2814.8	2816.3
10°	3450.0	3309.4	3051.7	2878.5	2795.6	2766.0	2767.5	2792.6	2816.3	2834.1	2837.0
12.5°	3497.5	3291.6	2952.5	2767.5	2714.2	2720.0	2761.5	2817.8	2863.7	2888.8	2890.3
15°	3550.7	3263.5	2832.6	2662.4	2644.5	2690.4	2767.5	2853.3	2922.9	2964.4	2968.8
17.5°	3595.2	3216.1	2706.8	2560.2	2582.4	2666.7	2773.4	2884.5	2968.8	3020.6	3029.5
20°	3645.5	3155.4	2576.4	2462.4	2526.1	2640.1	2761.5	2881.4	2968.8	3019.2	3031.0
22.5°	3685.5	3069.5	2452.0	2382.5	2475.7	2607.5	2721.6	2817.8	2888.8	2915.5	2933.3
25°	3701.7	2961.4	2335.1	2317.3	2435.8	2554.2	2631.2	2686.0	2708.2	2705.2	2712.6
27.5°	3692.9	2837.0	2234.4	2265.5	2385.4	2471.3	2509.8	2505.3	2465.4	2428.4	2446.1
30°	3655.9	2688.9	2150.0	2212.2	2320.2	2367.7	2361.7	2304.0	2228.5	2158.8	2163.3
32.5°	3589.2	2529.1	2071.6	2151.4	2228.5	2249.2	2209.2	2133.7	2025.6	1935.3	1921.9
35°	3533.0	2376.6	2001.9	2081.9	2136.6	2126.3	2087.8	1990.1	1892.3	1812.4	1799.1
37.5°	3524.1	2246.2	1935.3	2003.4	2034.5	2019.7	1972.3	1889.4	1853.8	1793.2	1785.7
40°	3571.5	2154.5	1867.2	1920.5	1935.3	1923.5	1871.6	1824.2	1856.8	1842.0	1842.0
42.5°	3700.3	2105.6	1806.5	1837.6	1849.4	1858.3	1821.3	1781.3	1821.3	1753.1	1730.9
45°	3904.6	2107.0	1751.7	1756.1	1791.7	1822.8	1797.6	1738.3	1717.7	1581.4	1554.8
47.5°	4205.3	2157.4	1707.2	1679.1	1742.8	1794.6	1759.1	1673.2	1581.4	1491.1	1474.8
50°	4556.1	2247.7	1667.3	1599.2	1677.6	1759.1	1732.5	1631.7	1537.0	1482.2	1471.8
52.5°	4945.6	2361.7	1618.4	1510.4	1597.6	1742.8	1738.3	1625.8	1495.6	1458.5	1449.6
55°	5426.8	2474.3	1557.7	1406.7	1526.6	1729.4	1722.0	1577.0	1486.6	1460.0	1457.0
57.5°	5986.5	2637.1	1470.3	1301.5	1445.2	1674.7	1658.4	1547.4	1457.0	1437.8	1436.3
60°	6888.3	2890.3	1345.9	1205.3	1362.3	1578.5	1599.2	1497.0	1409.6	1405.2	1403.7
62.5°	8074.3	3245.8	1217.2	1106.1	1266.0	1454.1	1513.3	1428.9	1359.3	1381.5	1384.5
65°	9712.0	3544.8	1083.9	1021.7	1159.4	1334.1	1431.9	1365.2	1303.0	1345.9	1345.9
67.5°	10779.6	3550.7	962.4	934.4	1051.3	1233.4	1345.9	1289.7	1230.5	1303.0	1306.0
70°	10557.5	3110.9	861.8	842.5	946.2	1125.3	1251.2	1206.8	1138.6	1203.8	1180.1
71°	10199.1	2866.6	821.8	807.0	904.7	1073.5	1206.8	1169.7	1101.6	1144.6	1131.2
72.5°	9627.6	2489.1	756.6	759.6	842.5	1008.4	1144.6	1106.1	1038.0	1061.7	1057.2
75°	8138.0	2173.6	647.1	660.4	724.1	897.3	1020.2	990.6	921.0	921.0	916.5
77.5°	5087.7	1519.2	537.5	544.9	614.5	768.5	876.6	851.4	784.7	762.5	756.6
80°	1898.3	784.7	420.5	429.4	472.3	605.6	725.5	701.9	633.8	608.5	584.9
82.5°	718.1	393.8	309.5	302.1	348.0	462.0	568.6	540.4	487.2	426.5	408.6
85°	271.0	195.4	189.6	183.6	204.4	273.9	352.4	346.5	290.2	247.3	242.8
87.5°	71.1	63.7	74.0	54.7	57.8	51.8	53.3	22.2	10.3	4.5	2.9
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)