

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: P651964

Luminaire Tested: **GALN-SA6A-840-U-T2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651964
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-SA6A-840-U-T2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 4000K, 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: 19130.2 lumens
Efficiency: N/A
Efficacy: 105.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

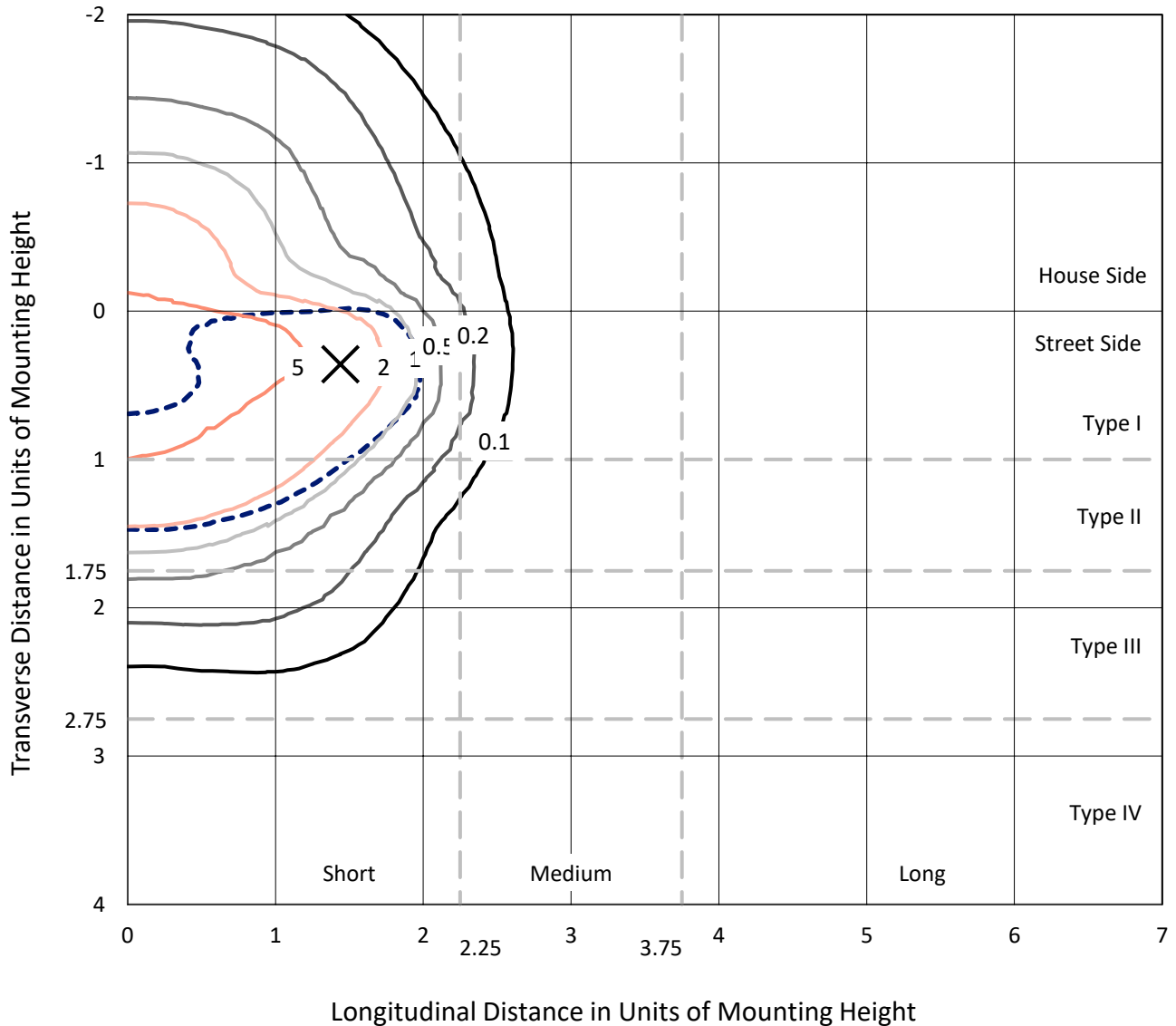
Input Watts (W): 182
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

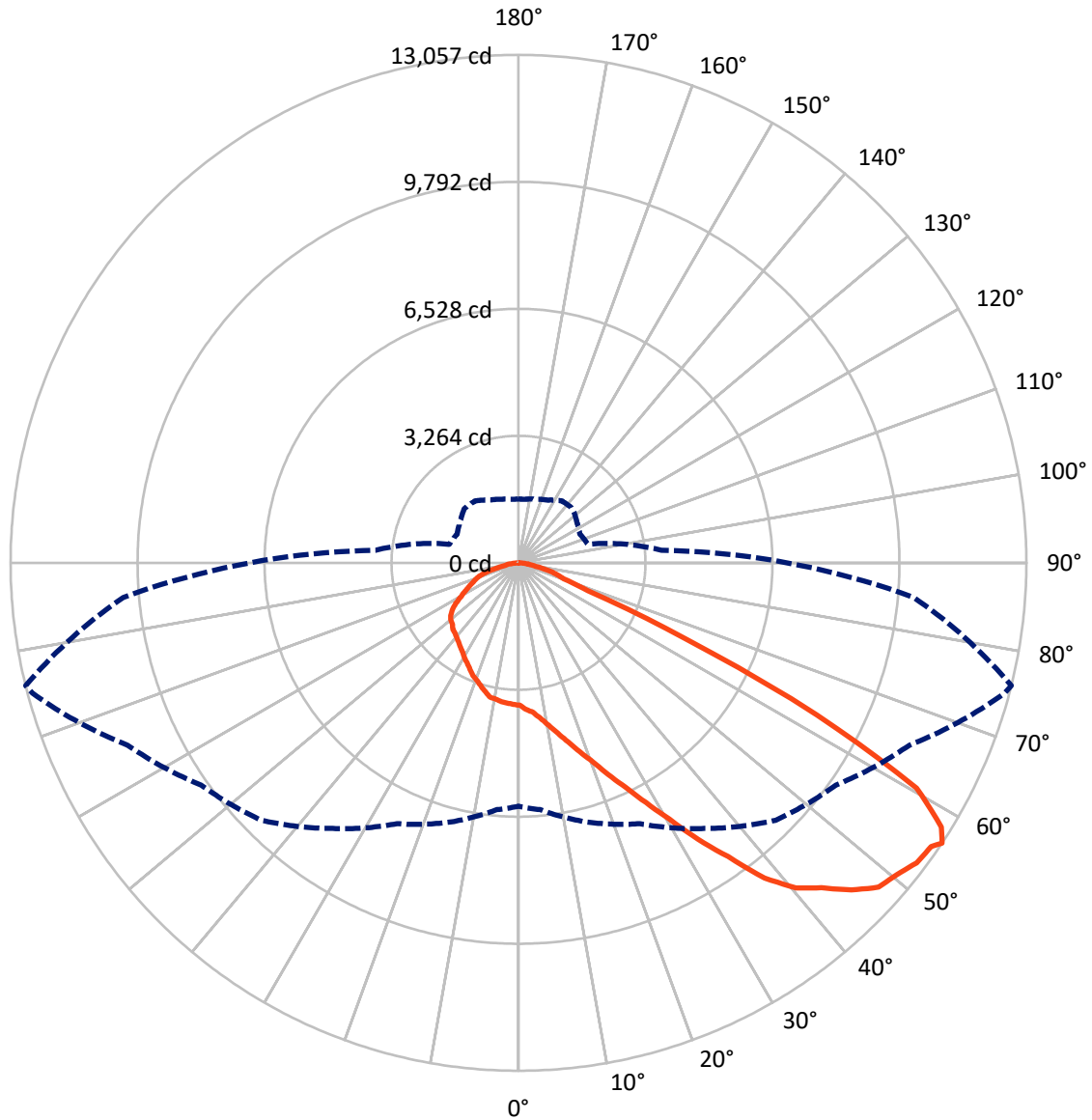
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.1 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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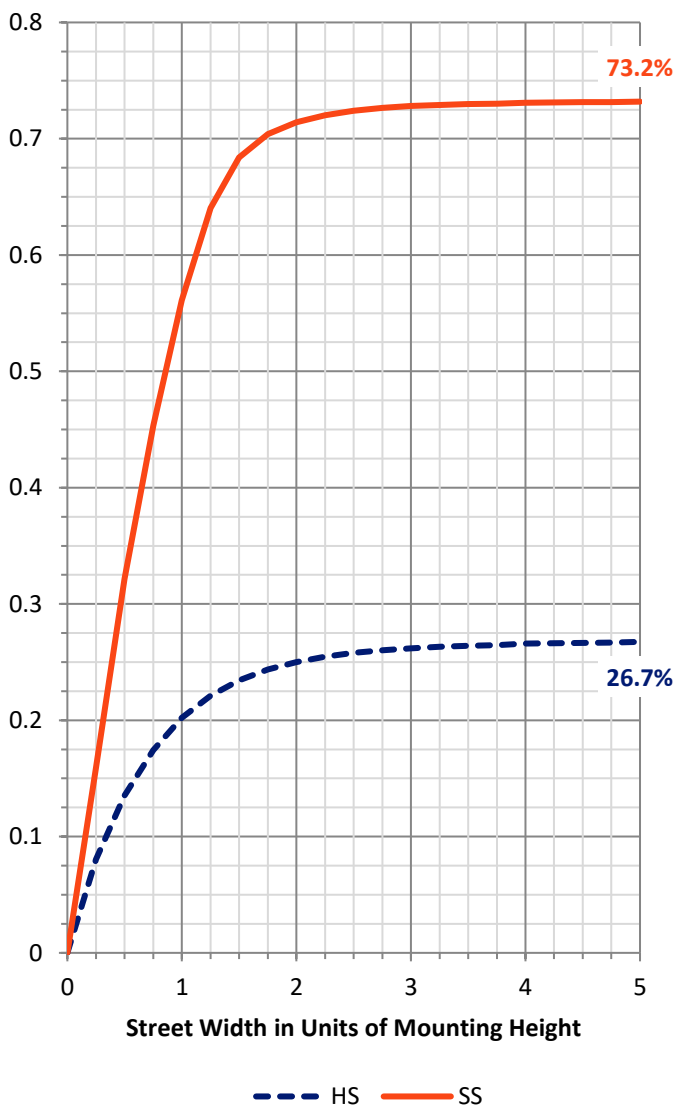
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5143.5	0.0	5143.5
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	13986.7	0.0	13986.7
	% Fixture	73.1	0.0	73.1
Total	Lumens	19130.2	0.0	19130.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	363.0	1.9
10°-20°	1140.3	6.0
20°-30°	1994.2	10.4
30°-40°	3122.3	16.3
40°-50°	4542.1	23.7
50°-60°	4992.1	26.1
60°-70°	2228.2	11.6
70°-80°	643.6	3.4
80°-90°	104.4	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°	19130.2	100.0
0°-180°	19130.2	100.0

Coefficient of Utilization

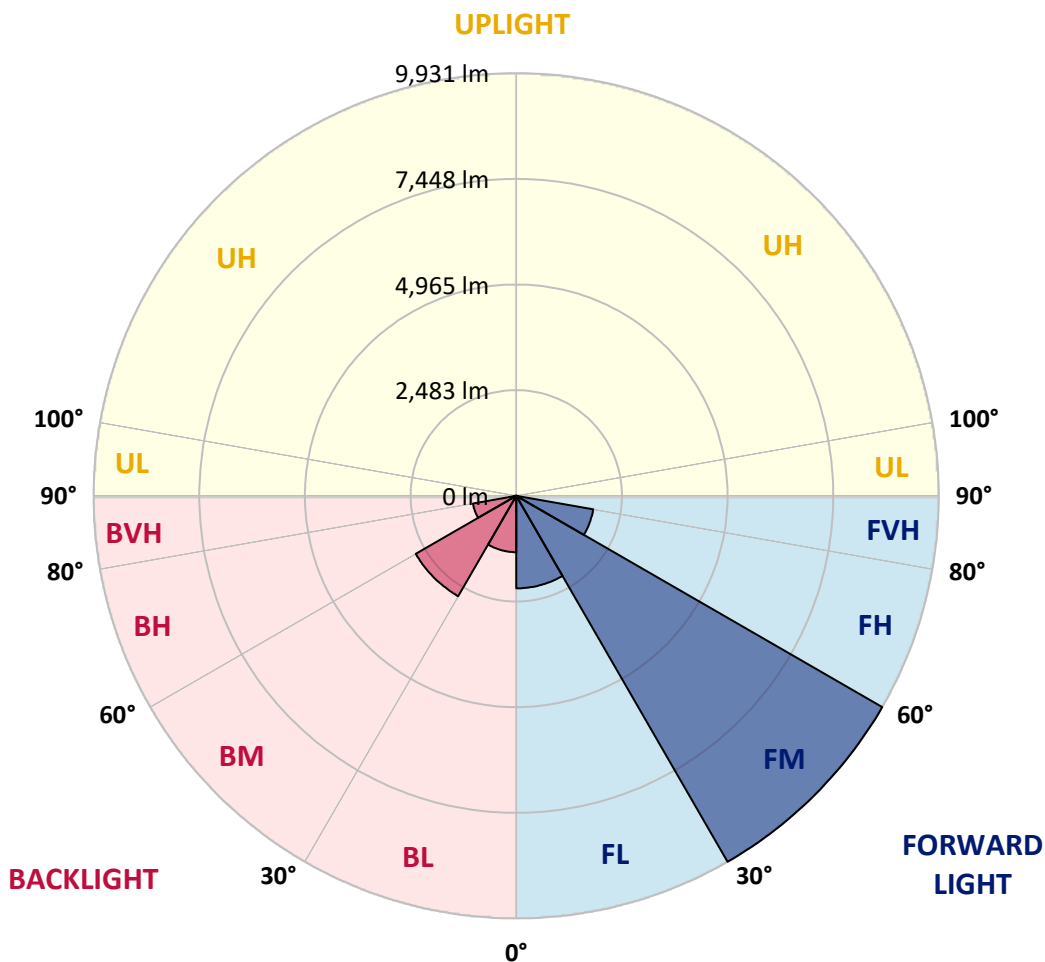


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2173.9	11.4			
FM (30°-60°)	9930.8	51.9			
FH (60°-80°)	1836.9	9.6			G2/5000
FVH (80°-90°)	44.9	0.2			G1/100
BL (0°-30°)	1323.5	6.9	B3/2500		
BM (30°-60°)	2725.7	14.2	B3/5000		
BH (60°-80°)	1034.9	5.4	B3/2500		G3/2500
BVH (80°-90°)	59.5	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°	3660.3	3660.3	3660.3	3660.3	3660.3	3660.3	3660.3	3660.3	3660.3	3660.3	3660.3
2.5°	4032.3	3967.8	3962.9	3945.6	3955.4	3910.8	3863.6	3801.7	3737.2	3776.8	3682.7
5°	4315.0	4228.2	4262.9	4203.4	4210.9	4151.3	4054.6	3982.7	3903.3	3856.2	3789.3
7.5°	4414.2	4421.6	4446.5	4436.5	4386.9	4386.9	4322.5	4196.0	4057.1	4029.8	3918.2
10°	4548.1	4550.6	4523.3	4530.8	4600.2	4568.0	4511.0	4456.4	4277.8	4245.5	4047.2
12.5°	4595.2	4550.6	4595.2	4634.9	4716.7	4761.4	4749.0	4709.3	4518.4	4496.1	4205.9
15°	4602.7	4575.4	4612.6	4701.9	4773.8	4962.2	5056.5	5029.3	4776.3	4778.7	4384.5
17.5°	4568.0	4605.1	4620.0	4696.9	4863.1	5039.1	5311.9	5349.1	5140.8	5108.6	4610.1
20°	4615.1	4587.8	4607.7	4677.1	4897.8	5173.1	5530.2	5775.7	5483.1	5460.7	4843.2
22.5°	4796.1	4758.9	4753.9	4798.6	4957.3	5242.5	5760.8	6202.2	5899.7	5912.1	5133.4
25°	4937.4	4957.3	4939.9	4937.4	5036.7	5346.7	6065.8	6710.6	6465.1	6393.2	5475.6
27.5°	5180.5	5227.7	5192.9	5240.0	5217.7	5502.9	6284.0	7273.6	7075.2	6978.4	5785.6
30°	5517.8	5542.5	5510.3	5510.3	5443.4	5721.2	6482.4	7861.2	7779.4	7648.0	6150.1
32.5°	5961.7	5998.9	5934.3	5897.2	5887.3	6045.9	6839.5	8441.5	8580.5	8468.9	6633.7
35°	6549.4	6527.1	6450.2	6415.5	6281.6	6544.4	7370.3	9108.6	9473.2	9274.8	7219.0
37.5°	7067.7	7032.9	7028.0	6834.6	6866.8	7082.6	7821.6	9614.6	10338.7	10281.6	7836.4
40°	7551.3	7583.5	7635.6	7526.4	7476.9	7714.9	8347.3	10001.4	11010.7	10988.4	8312.6
42.5°	8069.6	8039.8	8131.5	8039.8	7965.4	8302.7	8917.7	10269.2	11600.9	11417.4	8811.1
45°	8821.0	8726.7	8759.0	8766.4	8711.8	8835.9	9153.3	10462.7	12015.1	11995.3	9175.6
47.5°	9448.4	9450.9	9396.3	9354.2	9188.0	9312.0	9416.2	10584.2	12491.2	12459.0	9316.9
50°	9681.5	9649.3	9808.0	9899.7	9909.7	9656.7	9622.0	10651.2	12741.7	12600.4	9458.3
52.5°	8843.3	8873.1	9123.5	9669.1	9984.0	10011.3	9862.6	10790.0	12843.3	12813.6	9572.4
55°	7117.3	7261.1	7672.8	8302.7	9049.2	9870.0	10122.9	10933.8	12897.9	12873.1	10078.3
56°	6256.8	6368.4	6904.0	7397.5	8334.9	9356.6	9959.3	11087.6	12940.0	13056.6	10197.3
57.5°	5036.7	5165.6	5550.0	6110.5	7216.5	8379.6	9507.9	10899.1	12776.4	12821.0	10284.1
60°	3149.5	3161.8	3623.1	3992.6	4771.3	5907.1	7256.1	9483.1	11824.1	11759.6	9237.6
62.5°	2065.7	2068.3	2487.3	2789.8	3144.5	3404.9	4270.3	6289.0	8724.3	8610.2	6576.7
65°	1450.7	1482.9	1807.8	2212.1	2355.9	2219.5	2192.2	3315.6	4873.0	4709.3	3533.9
67.5°	1061.4	1063.9	1351.6	1785.5	1993.8	1688.8	1371.4	1619.3	1929.3	1924.4	1636.8
70°	701.8	731.6	952.3	1334.2	1572.2	1356.5	1120.9	1158.1	1227.5	1227.5	1217.6
72.5°	409.1	436.5	582.8	845.6	882.9	848.1	887.8	992.0	1036.6	1034.1	1021.7
75°	233.1	245.5	277.8	352.1	438.9	518.3	652.2	751.4	796.0	823.3	791.0
77.5°	136.4	143.8	163.7	200.8	228.2	280.2	354.6	424.0	483.6	476.2	481.1
80°	71.9	71.9	91.8	119.0	158.7	198.4	235.6	275.3	307.5	315.0	322.4
82.5°	42.1	44.7	59.5	86.8	114.0	141.4	181.1	208.3	238.1	240.5	245.5
85°	22.3	24.8	37.2	57.0	76.9	86.8	89.3	84.4	91.8	86.8	99.2
87.5°	7.4	7.4	12.4	9.9	9.9	12.4	14.9	14.9	19.8	19.8	19.8
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°	3660.3	3660.3	3660.3	3660.3	3660.3	3660.3	3660.3	3660.3	3660.3	3660.3	3660.3
2.5°	3680.1	3680.1	3638.0	3558.6	3546.2	3514.0	3484.3	3481.7	3459.5	3439.6	3429.7
5°	3749.6	3672.7	3610.7	3538.8	3454.5	3414.8	3370.1	3320.6	3300.8	3320.6	3318.1
7.5°	3829.0	3764.5	3578.5	3444.6	3347.9	3308.2	3258.5	3206.5	3211.4	3211.4	3176.7
10°	3905.9	3819.1	3521.4	3350.4	3209.0	3179.2	3152.0	3171.7	3196.6	3201.5	3179.2
12.5°	4034.8	3838.9	3494.2	3256.1	3166.8	3102.4	3119.7	3174.3	3226.3	3211.4	3228.9
15°	4131.5	3856.2	3370.1	3159.4	3047.8	3077.6	3139.5	3176.7	3263.5	3253.7	3271.0
17.5°	4225.8	3866.2	3248.7	3030.5	2983.3	3065.1	3112.3	3218.9	3246.2	3305.7	3328.0
20°	4419.2	3886.0	3124.7	2951.1	2936.2	3030.5	3112.3	3161.8	3221.4	3273.4	3273.4
22.5°	4518.4	3876.1	3042.8	2847.0	2894.0	2953.6	3027.9	3112.3	3112.3	3161.8	3164.3
25°	4642.3	3836.4	2913.9	2797.3	2832.1	2889.1	2973.4	2943.7	2975.9	2975.9	3015.6
27.5°	4783.7	3752.0	2802.3	2708.0	2777.5	2839.5	2851.9	2832.1	2794.8	2789.8	2775.0
30°	4897.8	3647.9	2720.5	2678.2	2735.4	2770.0	2730.4	2688.2	2623.8	2618.8	2584.1
32.5°	5054.0	3519.0	2618.8	2603.9	2668.3	2670.8	2658.5	2594.0	2499.7	2460.1	2420.4
35°	5316.9	3444.6	2541.9	2564.2	2584.1	2576.6	2554.3	2484.8	2390.6	2373.2	2358.4
37.5°	5510.3	3390.0	2462.5	2489.8	2507.2	2517.1	2450.2	2373.2	2375.7	2341.0	2331.1
40°	5728.6	3355.3	2398.0	2410.5	2412.9	2445.2	2363.4	2326.1	2343.5	2321.2	2336.0
42.5°	6008.8	3365.2	2331.1	2321.2	2368.3	2355.9	2316.2	2266.7	2276.5	2209.6	2219.5
45°	6157.5	3432.2	2291.4	2246.8	2298.9	2296.4	2244.3	2197.2	2137.7	2008.7	2013.7
47.5°	6256.8	3449.5	2197.2	2167.4	2222.0	2254.2	2194.7	2085.6	2001.2	1909.5	1887.2
50°	6358.5	3481.7	2152.5	2090.6	2112.8	2189.7	2115.4	2011.2	1929.3	1847.5	1860.0
52.5°	6447.7	3543.8	2065.7	1974.0	2013.7	2098.0	2058.3	1931.9	1842.5	1775.6	1755.8
55°	6844.5	3682.7	1919.4	1800.4	1894.6	2001.2	1979.0	1825.2	1728.5	1693.8	1688.8
56°	6906.5	3687.6	1842.5	1740.9	1827.7	1969.0	1941.8	1778.0	1691.3	1636.8	1639.2
57.5°	6916.4	3628.1	1733.5	1686.3	1760.7	1921.9	1887.2	1740.9	1621.9	1572.2	1557.4
60°	6085.6	2832.1	1597.1	1567.3	1654.1	1778.0	1765.7	1639.2	1505.3	1448.3	1475.5
62.5°	4148.8	2075.7	1490.4	1485.5	1530.1	1651.6	1619.3	1505.3	1393.7	1356.5	1339.1
65°	2415.4	1574.8	1386.2	1366.5	1403.6	1468.1	1490.4	1371.4	1254.9	1230.0	1222.6
67.5°	1425.9	1302.0	1252.3	1220.1	1207.7	1247.4	1264.8	1195.3	1078.8	1044.0	1073.8
70°	1192.8	1158.1	1160.6	1106.0	1076.3	1049.0	1034.1	972.1	875.4	830.7	818.4
72.5°	1029.1	1014.2	1004.3	954.8	927.5	865.5	801.0	739.0	667.1	629.9	632.3
75°	786.2	781.2	786.2	761.4	714.2	664.6	605.1	525.7	471.2	424.0	434.0
77.5°	468.7	483.6	491.1	481.1	461.3	416.6	379.5	327.3	275.3	238.1	233.1
80°	322.4	334.8	347.2	334.8	315.0	282.7	243.0	203.4	166.2	146.3	141.4
82.5°	245.5	257.9	265.3	253.0	228.2	193.4	166.2	138.8	109.1	89.3	84.4
85°	89.3	101.7	99.2	119.0	128.9	124.0	106.6	81.8	62.0	44.7	42.1
87.5°	24.8	22.3	24.8	24.8	24.8	22.3	19.8	19.8	19.8	12.4	9.9
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)