

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: P651912

Luminaire Tested: **GALN-SA5A-840-U-T2R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651912
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-10)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5A-840-U-T2R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16925.1 lumens
Efficiency: N/A
Efficacy: 109.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

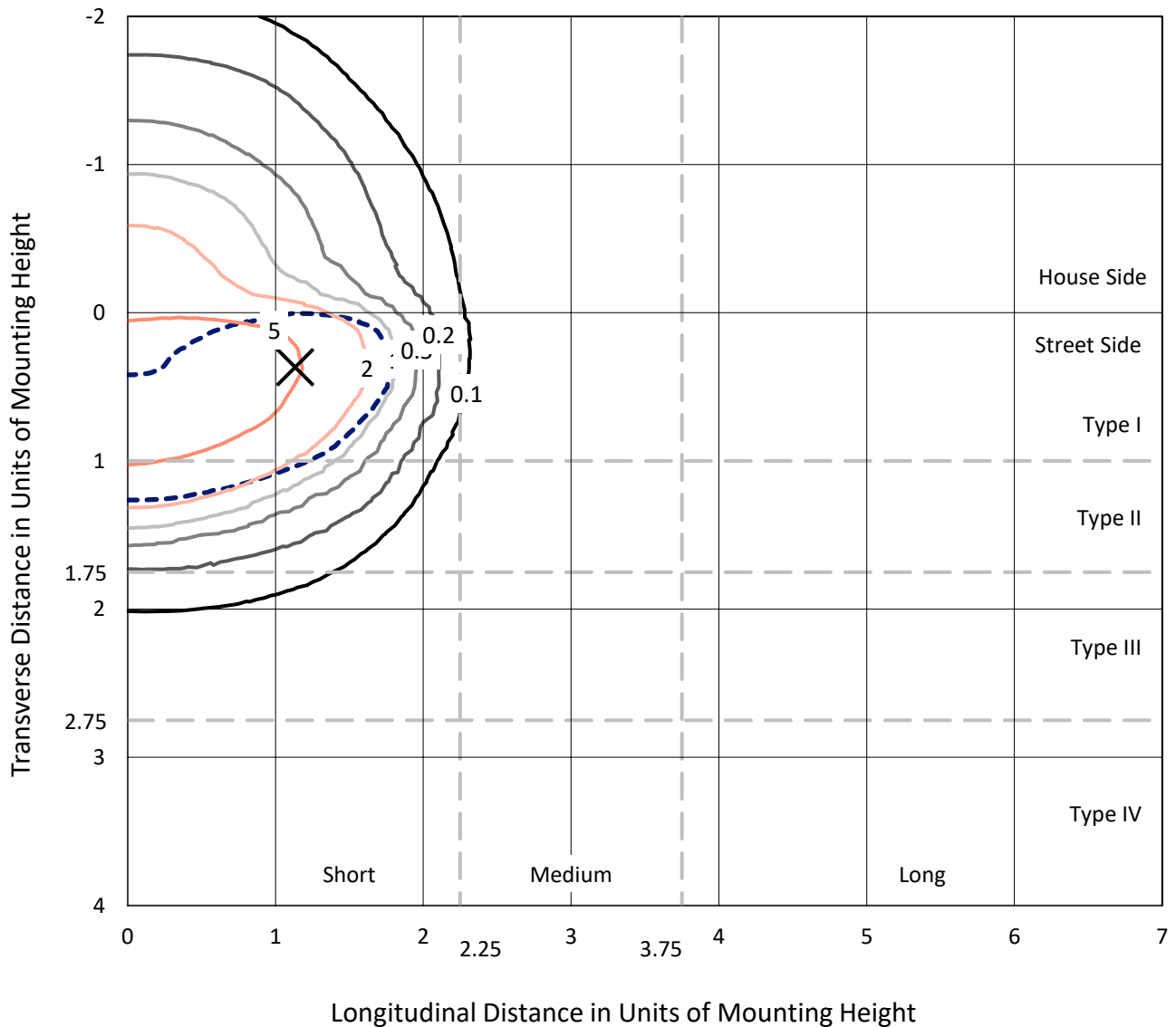
Input Watts (W): 154
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

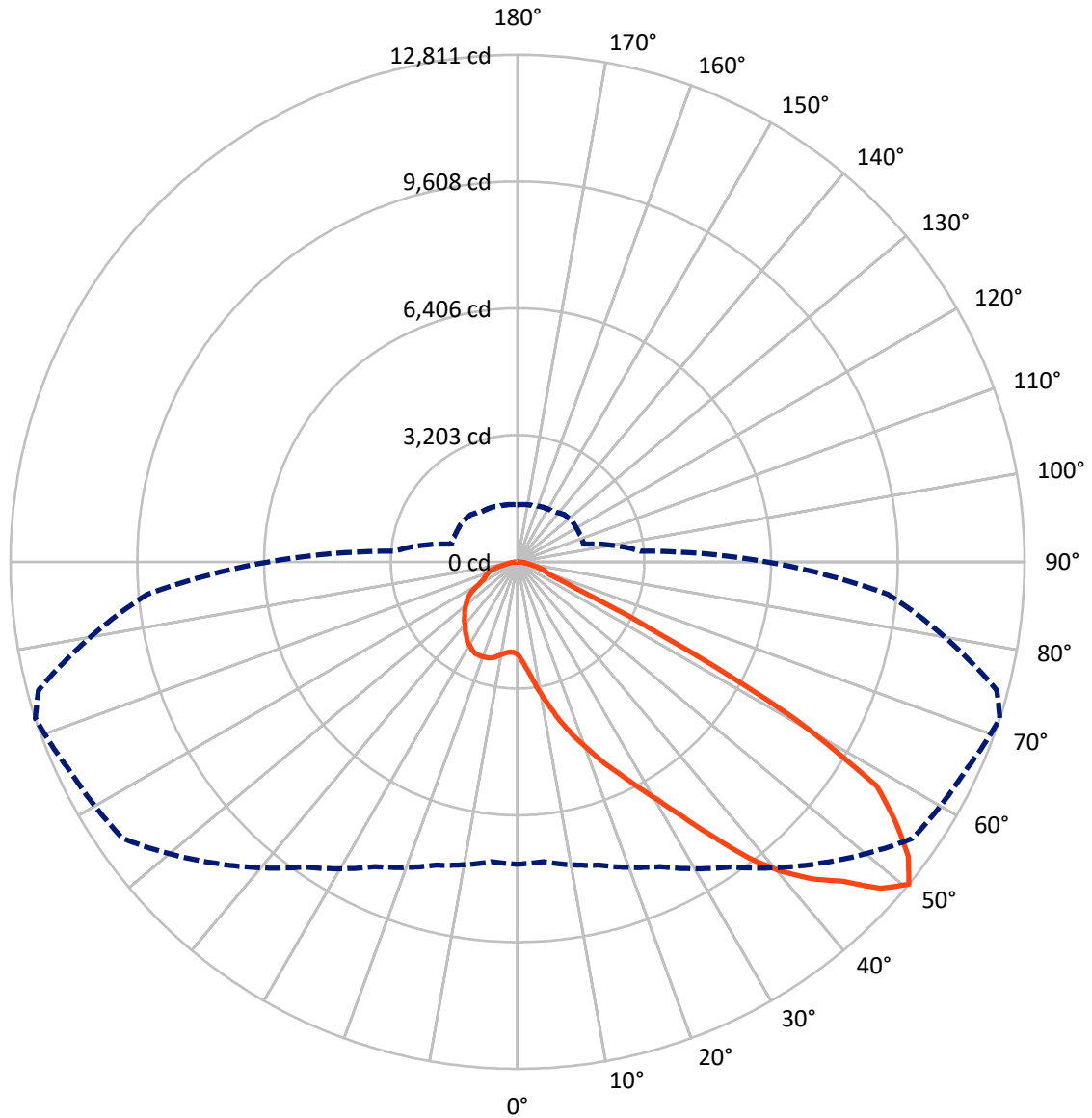
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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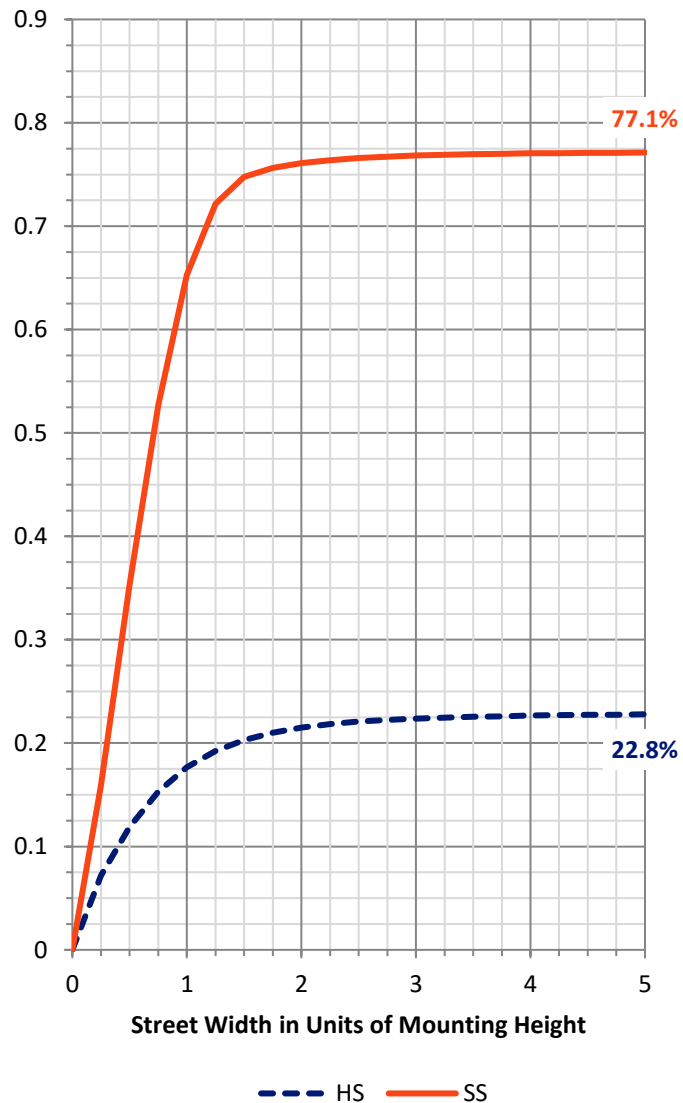
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3877.6	0.0	3877.6
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	13047.5	0.0	13047.5
	% Fixture	77.1	0.0	77.1
Total	Lumens	16925.1	0.0	16925.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	277.1	1.6
10°-20°	1036.0	6.1
20°-30°	2008.8	11.9
30°-40°	3327.9	19.7
40°-50°	4656.5	27.5
50°-60°	3928.3	23.2
60°-70°	1197.3	7.1
70°-80°	420.1	2.5
80°-90°	73.0	0.4
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°	16925.1	100.0
0°-180°	16925.1	100.0

Coefficient of Utilization

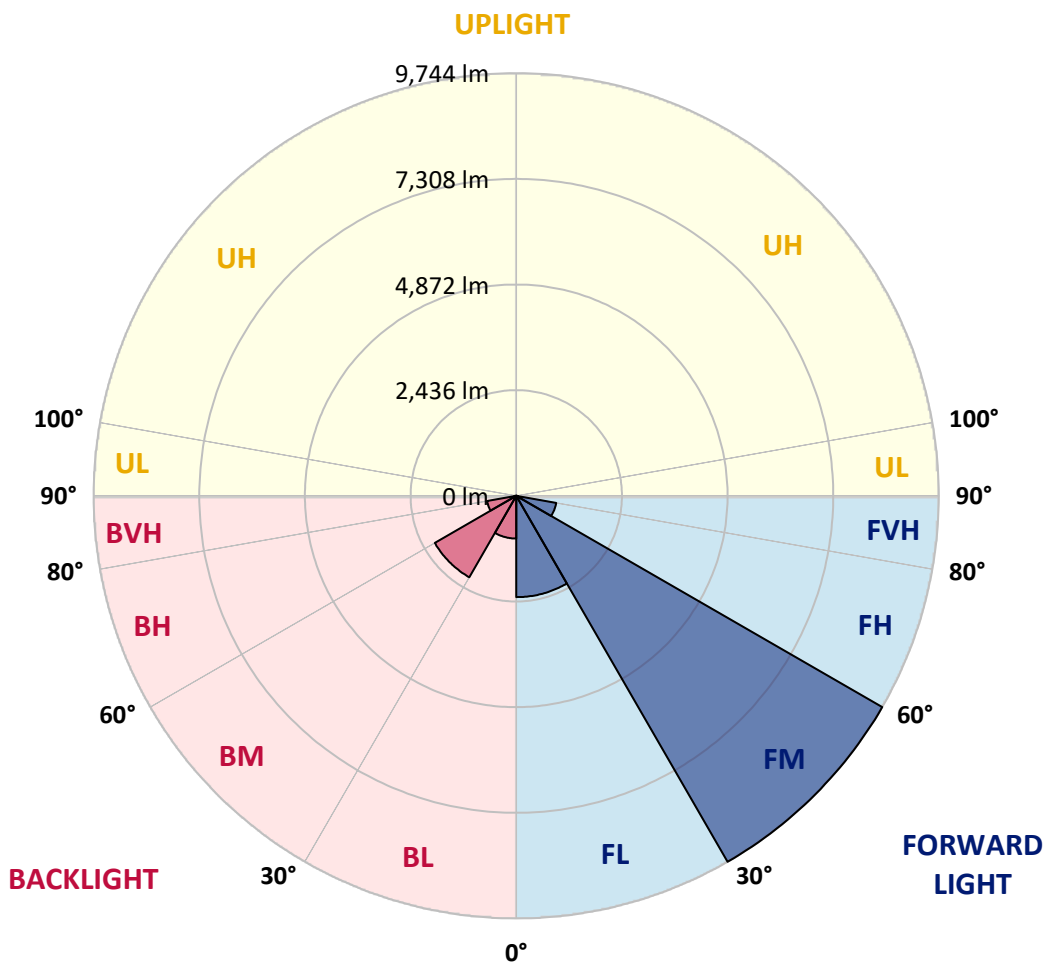


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2336.3	13.8			
FM (30°-60°)	9744.2	57.6			
FH (60°-80°)	934.2	5.5			G1/1800
FVH (80°-90°)	32.7	0.2			G1/100
BL (0°-30°)	985.7	5.8	B2/1000		
BM (30°-60°)	2168.4	12.8	B2/2500		
BH (60°-80°)	683.2	4.0	B2/1000		G2/1000
BVH (80°-90°)	40.3	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	2356.1	2356.1	2356.1	2356.1	2356.1	2356.1	2356.1	2356.1	2356.1	2356.1	2356.1
2.5°	3030.5	3011.6	2955.1	2936.3	2869.2	2747.8	2705.8	2582.3	2530.0	2481.8	2425.3
5°	3832.6	3744.6	3738.4	3631.6	3476.6	3386.5	3118.4	2938.4	2772.9	2689.1	2534.1
7.5°	4343.7	4345.7	4345.7	4257.8	4134.2	3905.9	3665.1	3340.5	3091.3	2967.6	2703.8
10°	4829.5	4787.6	4764.6	4756.2	4672.4	4450.5	4192.9	3790.7	3449.4	3304.9	2831.6
12.5°	5173.0	5137.4	5189.7	5162.6	5101.8	4957.3	4714.3	4255.7	3828.4	3633.6	3036.8
15°	5336.3	5361.5	5403.3	5478.8	5451.5	5397.1	5129.0	4733.1	4236.8	4017.0	3219.0
17.5°	5587.7	5518.6	5568.8	5663.0	5738.5	5713.3	5560.4	5078.7	4641.1	4370.8	3464.0
20°	5763.6	5723.8	5748.9	5857.8	5914.4	6056.8	5977.2	5531.1	5028.5	4743.7	3753.0
22.5°	6266.2	6207.6	6125.9	6142.7	6163.6	6264.1	6283.0	6027.4	5478.8	5177.2	4027.4
25°	6886.2	6831.7	6735.4	6636.9	6576.2	6557.4	6622.3	6417.0	5910.2	5598.1	4322.7
27.5°	7568.9	7476.7	7416.0	7212.8	7049.5	7024.4	6993.0	6882.0	6421.2	6084.0	4655.7
30°	8232.8	8159.6	8077.8	7753.2	7583.5	7556.4	7401.4	7432.8	6976.2	6601.3	5032.7
32.5°	8735.5	8741.8	8555.3	8310.3	8151.1	8006.7	7950.1	8040.1	7688.3	7386.7	5453.6
35°	9141.8	9160.6	8982.6	8760.6	8588.9	8689.4	8664.2	8706.1	8538.6	8170.0	5943.7
37.5°	9537.6	9443.3	9252.8	9146.0	9055.9	9221.3	9434.9	9470.6	9502.0	9068.4	6513.4
40°	9602.5	9610.9	9499.9	9575.3	9462.2	9711.4	10207.8	10161.7	10289.5	9910.3	7131.2
42.5°	9510.4	9529.2	9573.2	9680.0	9952.2	10251.7	10988.9	10800.5	10955.5	10618.2	7732.2
45°	9359.6	9282.0	9336.5	9742.8	10214.0	10880.0	11703.1	11556.5	11506.2	11223.5	8448.5
47.5°	8639.1	8718.7	8888.4	9388.9	10096.8	10988.9	12210.0	12176.4	12327.2	12128.2	9099.9
50°	7640.1	7608.7	7935.4	8498.8	9411.9	10775.3	12182.7	12486.4	12811.0	12534.6	9390.9
52.5°	5721.7	5889.3	6169.9	6869.4	8172.1	9610.9	11588.0	12094.8	12358.7	12300.0	9156.4
55°	3616.9	3667.2	3836.8	4668.2	5841.1	7713.4	9933.4	11108.3	11579.6	11799.5	8940.7
57.5°	1757.1	1662.9	1870.2	2538.3	3374.0	5187.6	7661.1	9675.8	10700.0	11097.8	8471.6
60°	917.3	952.9	1034.6	1273.4	1744.6	2693.3	4775.1	6448.5	8012.9	8624.5	6421.2
62.5°	760.3	772.8	827.3	946.6	1160.2	1549.8	2437.8	3143.6	4086.0	4636.9	3652.5
65°	645.0	651.4	710.0	789.5	925.7	1091.1	1254.5	1313.1	1589.6	1631.5	1298.5
67.5°	538.2	544.5	607.4	682.7	770.7	814.7	856.6	852.4	883.8	871.3	869.2
70°	414.7	420.9	485.8	565.5	609.5	584.3	714.2	743.5	756.1	766.5	783.3
72.5°	299.5	312.1	362.3	418.9	395.9	454.5	588.5	632.5	649.3	655.6	676.5
75°	217.8	222.0	234.6	217.8	251.3	316.2	414.7	469.1	490.1	496.4	527.8
77.5°	96.4	98.4	100.5	125.6	161.3	196.9	247.2	291.1	320.4	328.8	337.2
80°	50.3	52.4	64.9	85.9	115.2	144.5	180.1	205.2	224.1	226.2	234.6
82.5°	31.5	33.5	46.1	60.7	81.7	106.8	132.0	152.9	167.5	169.6	171.7
85°	14.6	18.8	27.2	37.7	54.4	69.1	71.2	60.7	64.9	67.0	62.8
87.5°	4.2	6.3	8.4	6.3	8.4	8.4	10.5	12.5	12.5	12.5	14.6
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°	2356.1	2356.1	2356.1	2356.1	2356.1	2356.1	2356.1	2356.1	2356.1	2356.1	2356.1
2.5°	2393.8	2375.0	2301.6	2274.5	2203.3	2215.8	2178.1	2176.0	2167.6	2165.6	2163.5
5°	2452.4	2393.8	2305.9	2238.8	2199.0	2194.8	2167.6	2167.6	2176.0	2182.3	2167.6
7.5°	2548.8	2481.8	2333.1	2270.3	2234.6	2228.4	2209.6	2194.8	2213.7	2207.5	2190.6
10°	2659.8	2542.5	2385.4	2331.0	2272.4	2257.7	2257.7	2264.0	2232.5	2243.0	2226.3
12.5°	2783.4	2626.3	2452.4	2389.6	2320.5	2312.2	2308.0	2261.9	2278.6	2270.3	2228.4
15°	2940.5	2722.7	2538.3	2431.5	2372.9	2335.2	2280.7	2272.4	2261.9	2240.9	2222.1
17.5°	3110.1	2827.4	2578.1	2444.1	2356.1	2328.9	2287.0	2243.0	2211.6	2215.8	2201.1
20°	3254.6	2923.7	2592.8	2456.6	2343.5	2291.2	2226.3	2199.0	2165.6	2163.5	2161.4
22.5°	3426.3	3053.5	2613.7	2423.2	2305.9	2251.4	2207.5	2159.3	2136.2	2106.9	2121.6
25°	3631.6	3103.8	2617.9	2404.3	2278.6	2182.3	2159.3	2106.9	2098.5	2056.7	2065.0
27.5°	3780.3	3131.0	2584.4	2345.6	2215.8	2142.5	2100.6	2062.9	2048.3	2016.8	2008.5
30°	3979.2	3172.9	2513.2	2272.4	2153.0	2071.3	2046.2	2037.7	1995.9	1962.4	1958.2
32.5°	4205.4	3200.2	2467.2	2196.9	2088.0	2025.2	2037.7	1998.0	1945.7	1916.3	1908.0
35°	4385.6	3210.6	2351.9	2111.1	2044.1	2004.3	1989.6	1981.2	1905.9	1878.6	1857.7
37.5°	4659.9	3187.6	2255.6	2050.4	1995.9	1981.2	1968.7	1912.1	1826.2	1786.5	1757.1
40°	4980.3	3181.3	2132.0	1964.5	1949.9	1966.6	1928.9	1840.9	1721.5	1677.5	1656.6
42.5°	5288.2	3225.2	2054.6	1918.4	1899.6	1905.9	1853.5	1721.5	1662.9	1637.8	1604.3
45°	5803.4	3317.4	1926.8	1847.2	1838.8	1834.6	1771.8	1633.6	1600.1	1568.6	1562.4
47.5°	6268.3	3256.7	1845.1	1773.9	1782.2	1759.2	1625.2	1581.2	1543.5	1512.1	1501.6
50°	6295.6	3112.2	1729.9	1717.3	1719.4	1679.6	1551.9	1522.5	1474.4	1453.5	1438.8
52.5°	6153.2	2875.5	1623.1	1627.3	1633.6	1568.6	1461.8	1440.9	1401.1	1371.8	1363.4
55°	5753.1	2506.9	1518.4	1535.2	1551.9	1428.4	1394.8	1342.5	1311.0	1269.2	1271.3
57.5°	5068.3	2018.9	1371.8	1399.0	1434.6	1298.5	1273.4	1208.4	1162.3	1128.9	1124.7
60°	3397.0	1436.7	1151.9	1162.3	1241.9	1187.5	1185.4	1120.5	1057.6	1028.3	1011.6
62.5°	2004.3	1097.4	994.8	984.3	982.2	1013.7	1066.1	1043.0	961.3	904.7	921.5
65°	1049.2	948.7	925.7	890.1	869.2	860.8	900.5	911.1	856.6	795.8	791.6
67.5°	881.7	881.7	862.9	850.3	821.0	785.4	760.3	726.7	718.4	701.6	680.6
70°	802.1	823.1	816.8	787.4	762.4	722.5	657.6	603.2	550.8	531.9	544.5
72.5°	699.5	720.5	720.5	705.8	672.3	611.6	548.8	485.8	441.9	408.4	404.2
75°	538.2	548.8	573.8	557.1	513.1	475.4	410.5	345.6	303.7	272.2	266.0
77.5°	343.5	360.2	360.2	358.1	326.7	291.1	249.2	203.2	171.7	148.7	142.4
80°	228.2	238.8	247.2	238.8	217.8	190.6	159.2	127.7	104.7	85.9	81.7
82.5°	167.5	180.1	186.4	178.0	157.1	136.2	113.1	90.1	67.0	52.4	48.2
85°	64.9	67.0	75.4	90.1	88.0	85.9	69.1	50.3	37.7	27.2	25.1
87.5°	16.7	14.6	16.7	16.7	14.6	12.5	12.5	12.5	12.5	6.3	8.4
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)