

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: P530894

Luminaire Tested: **GALN-SA6A-827-U-T2R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530894
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-SA6A-827-U-T2R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 2700K, 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: 17517 lumens
Efficiency: N/A
Efficacy: 96.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

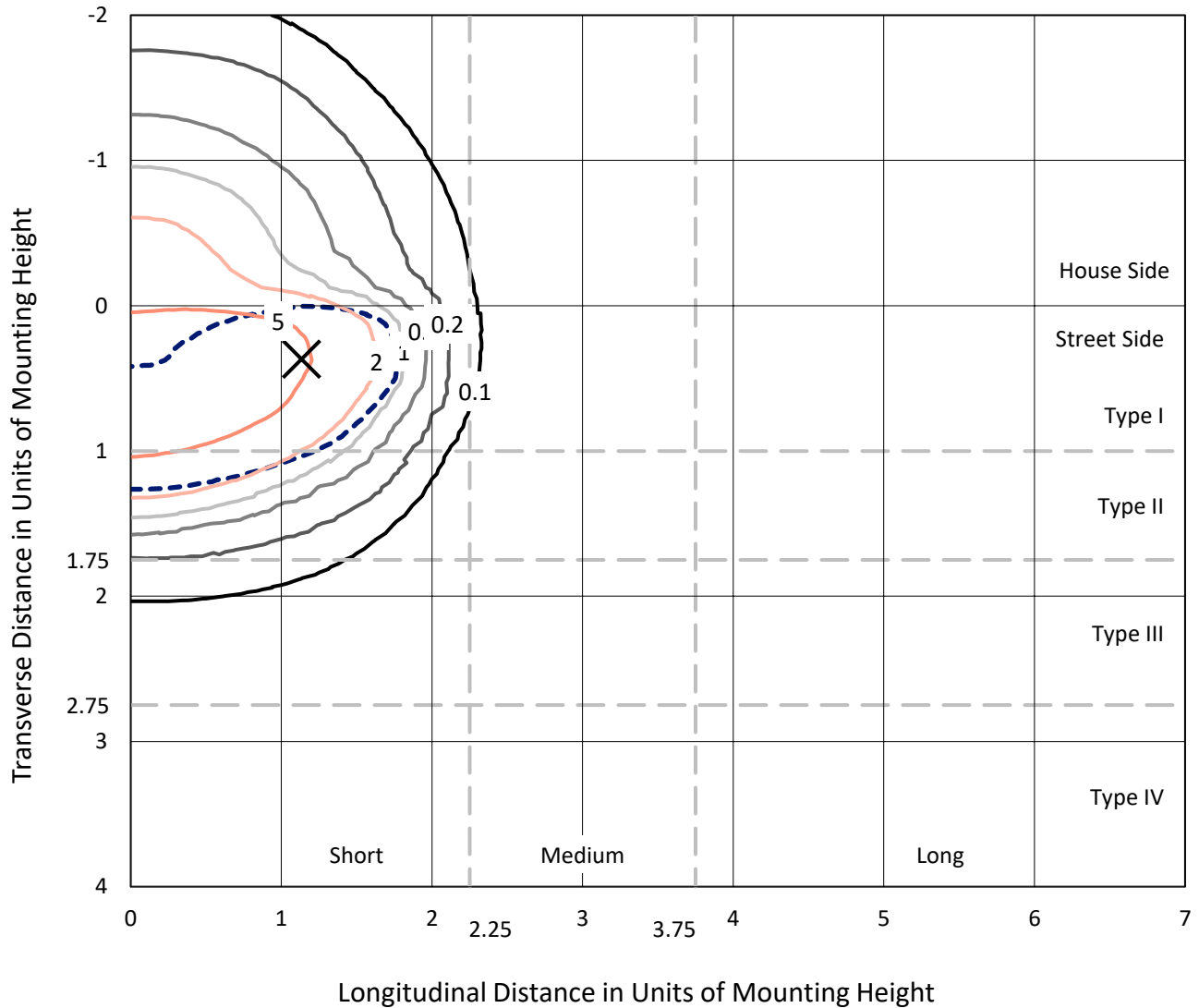
Input Watts (W): 182
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P530894
 CATALOG NUMBER: GALN-SA6A-827-U-T2R-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

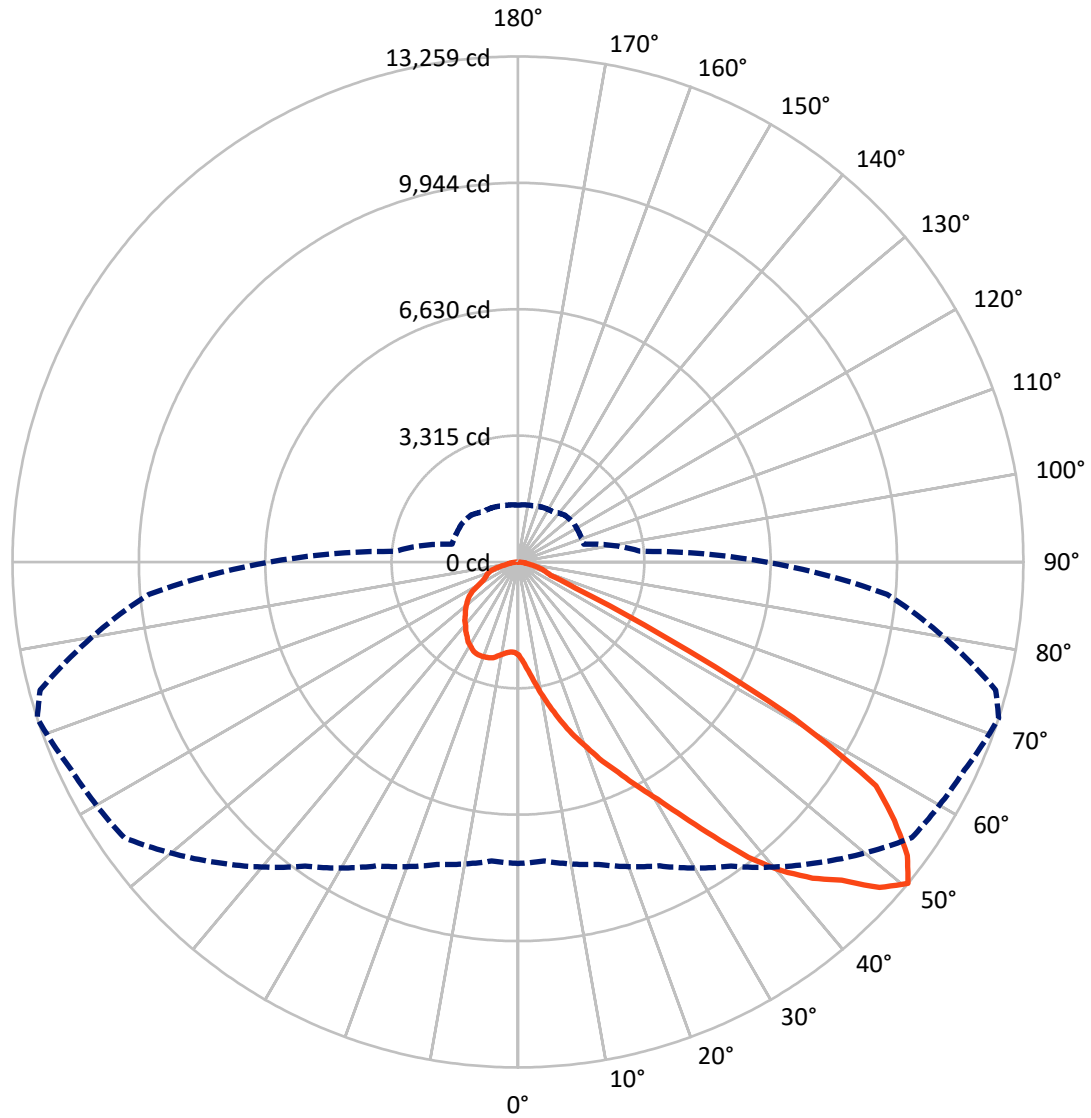
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.7 fc
 Type II - Short - N/A

REPORT NUMBER: P530894
CATALOG NUMBER: GALN-SA6A-827-U-T2R-GRSWH

Luminous Intensity Polar Plot



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

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 CATALOG NUMBER: GALN-SA6A-827-U-T2R-GRSWH

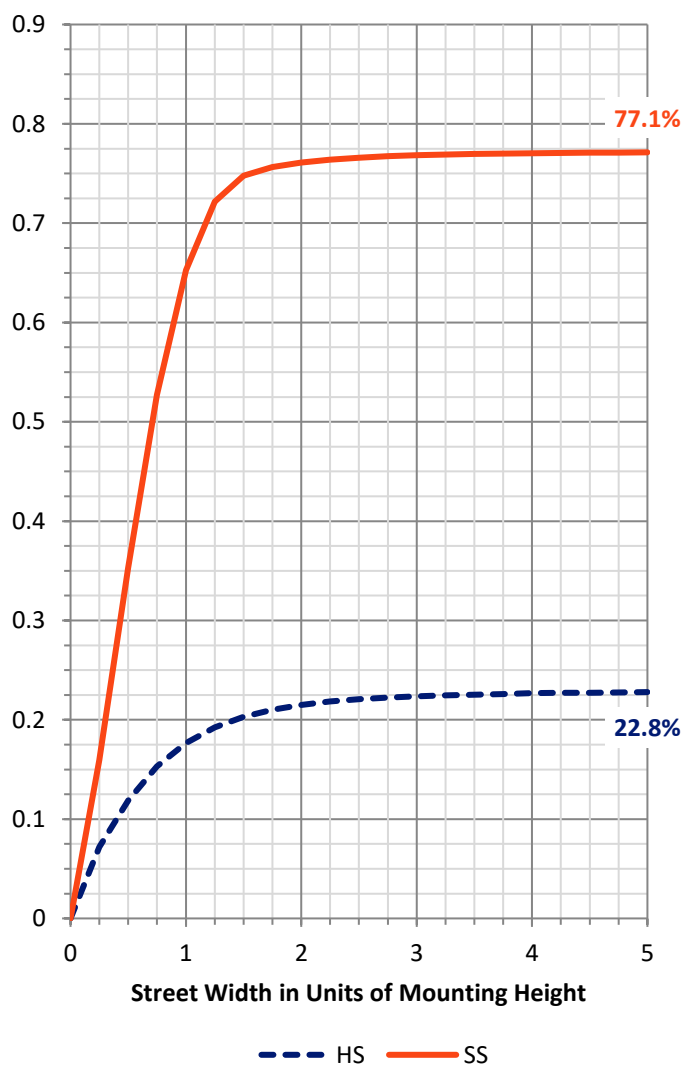
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4013.2	0.0	4013.2
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	13503.8	0.0	13503.8
	% Fixture	77.1	0.0	77.1
Total	Lumens	17517.0	0.0	17517.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	286.8	1.6
10°-20°	1072.3	6.1
20°-30°	2079.1	11.9
30°-40°	3444.3	19.7
40°-50°	4819.3	27.5
50°-60°	4065.7	23.2
60°-70°	1239.2	7.1
70°-80°	434.8	2.5
80°-90°	75.6	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°	17517.0	100.0
0°-180°	17517.0	100.0

Coefficient of Utilization

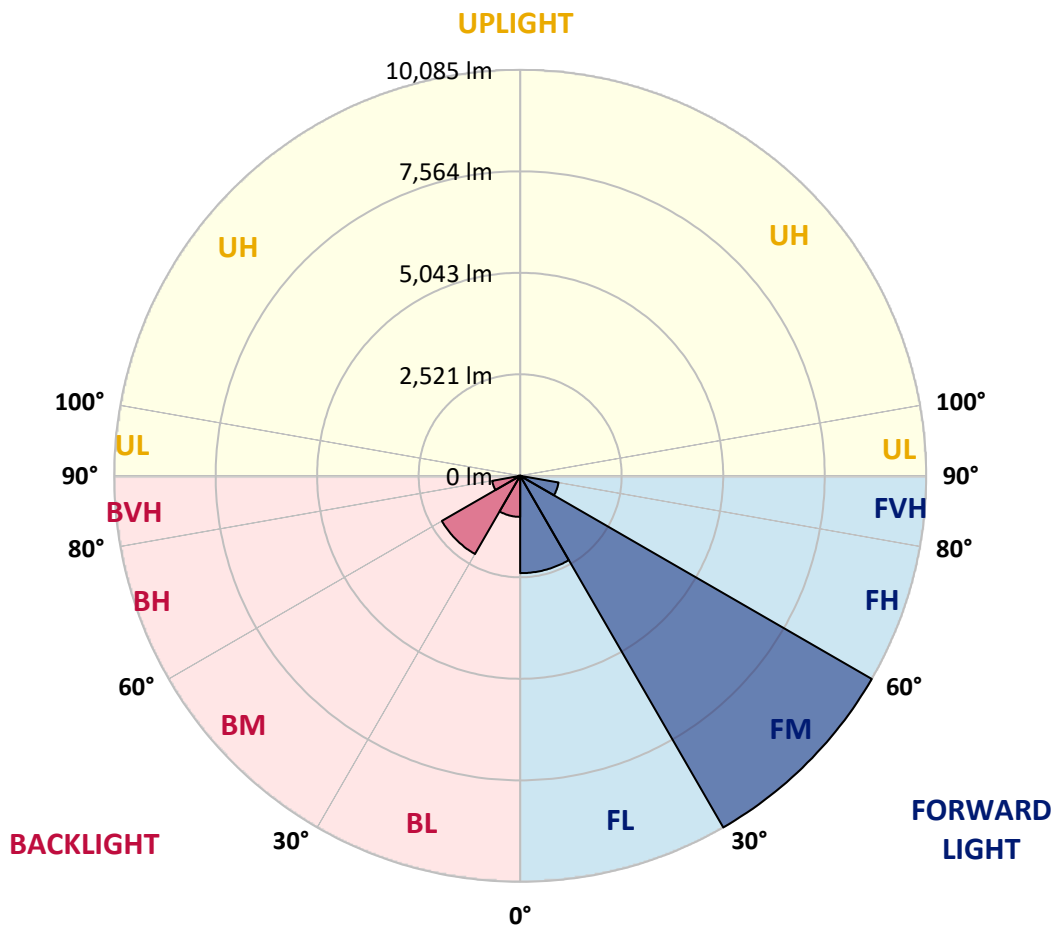


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2418.0	13.8			
FM (30°-60°)	10085.0	57.6			
FH (60°-80°)	966.9	5.5			G1/1800
FVH (80°-90°)	33.9	0.2			G1/100
BL (0°-30°)	1020.2	5.8	B3/2500		
BM (30°-60°)	2244.3	12.8	B2/2500		
BH (60°-80°)	707.1	4.0	B2/1000		G2/1000
BVH (80°-90°)	41.7	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°	55°	65°	72°	75°	85°
0°	2438.5	2438.5	2438.5	2438.5	2438.5	2438.5	2438.5	2438.5	2438.5	2438.5	2438.5
2.5°	3136.5	3117.0	3058.4	3038.9	2969.6	2843.9	2800.5	2672.6	2618.4	2568.6	2510.0
5°	3966.7	3875.6	3869.1	3758.6	3598.2	3505.0	3227.5	3041.1	2869.9	2783.2	2622.8
7.5°	4495.5	4497.7	4497.7	4406.7	4278.8	4042.5	3793.2	3457.3	3199.3	3071.4	2798.3
10°	4998.4	4955.1	4931.2	4922.6	4835.8	4606.1	4339.5	3923.3	3570.0	3420.4	2930.6
12.5°	5353.9	5317.0	5371.2	5343.1	5280.2	5130.6	4879.2	4404.5	3962.3	3760.7	3143.0
15°	5523.0	5549.0	5592.3	5670.4	5642.2	5585.8	5308.4	4898.7	4385.0	4157.4	3331.6
17.5°	5783.1	5711.5	5763.6	5861.1	5939.1	5913.1	5754.9	5256.4	4803.3	4523.7	3585.2
20°	5965.2	5924.0	5950.0	6062.7	6121.2	6268.6	6186.2	5724.6	5204.3	4909.5	3884.3
22.5°	6485.4	6424.7	6340.1	6357.5	6379.2	6483.2	6502.7	6238.3	5670.4	5358.2	4168.2
25°	7127.0	7070.6	6970.9	6869.0	6806.2	6786.7	6853.9	6641.4	6116.9	5793.9	4473.9
27.5°	7833.6	7738.2	7675.4	7465.1	7296.0	7270.0	7237.5	7122.6	6645.8	6296.8	4818.5
30°	8520.7	8444.9	8360.3	8024.3	7848.8	7820.6	7660.2	7692.7	7220.2	6832.2	5208.7
32.5°	9040.9	9047.4	8854.5	8600.9	8436.2	8286.6	8228.1	8321.3	7957.1	7645.0	5644.4
35°	9461.4	9480.9	9296.7	9066.9	8889.2	8993.2	8967.2	9010.6	8837.2	8455.7	6151.6
37.5°	9871.1	9773.6	9576.3	9465.8	9372.6	9543.8	9764.9	9801.7	9834.3	9385.6	6741.1
40°	9938.3	9947.0	9832.1	9910.1	9793.1	10051.0	10564.7	10517.0	10649.3	10256.9	7380.6
42.5°	9842.9	9862.4	9908.0	10018.5	10300.3	10610.3	11373.2	11178.2	11338.6	10989.6	8002.7
45°	9686.9	9606.7	9663.0	10083.5	10571.2	11260.5	12112.4	11960.6	11908.6	11616.0	8744.0
47.5°	8941.2	9023.6	9199.2	9717.2	10449.9	11373.2	12636.9	12602.2	12758.3	12552.4	9418.1
50°	7907.3	7874.8	8212.9	8796.0	9741.1	11152.1	12608.8	12923.0	13259.0	12972.9	9719.4
52.5°	5921.8	6095.2	6385.7	7109.6	8457.9	9947.0	11993.2	12517.7	12790.8	12730.1	9476.6
55°	3743.4	3795.4	3971.0	4831.5	6045.4	7983.2	10280.8	11496.8	11984.5	12212.1	9253.4
57.5°	1818.6	1721.1	1935.6	2627.1	3492.0	5369.1	7929.0	10014.2	11074.1	11486.0	8767.8
60°	949.4	986.2	1070.8	1317.9	1805.6	2787.5	4942.1	6673.9	8293.1	8926.1	6645.8
62.5°	786.8	799.8	856.2	979.7	1200.8	1604.0	2523.1	3253.5	4228.9	4799.0	3780.2
65°	667.6	674.1	734.8	817.2	958.1	1129.3	1298.4	1359.1	1645.2	1688.5	1343.9
67.5°	557.1	563.6	628.6	706.6	797.7	843.2	886.5	882.2	914.7	901.7	899.5
70°	429.2	435.7	502.9	585.2	630.8	604.8	739.1	769.5	782.5	793.3	810.7
72.5°	310.0	323.0	375.0	433.5	409.7	470.4	609.1	654.6	671.9	678.4	700.1
75°	225.4	229.8	242.8	225.4	260.1	327.3	429.2	485.5	507.2	513.7	546.2
77.5°	99.7	101.9	104.0	130.1	166.9	203.8	255.8	301.3	331.6	340.3	349.0
80°	52.0	54.2	67.2	88.9	119.2	149.6	186.4	212.4	231.9	234.1	242.8
82.5°	32.5	34.7	47.7	62.9	84.5	110.5	136.6	158.2	173.4	175.6	177.7
85°	15.2	19.5	28.2	39.0	56.4	71.5	73.7	62.9	67.2	69.4	65.0
87.5°	4.3	6.5	8.7	6.5	8.7	8.7	10.8	13.0	13.0	13.0	15.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P530894

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2438.5	2438.5	2438.5	2438.5	2438.5	2438.5	2438.5	2438.5	2438.5	2438.5	2438.5
2.5°	2477.5	2458.0	2382.2	2354.0	2280.3	2293.3	2254.3	2252.1	2243.4	2241.3	2239.1
5°	2538.2	2477.5	2386.5	2317.1	2275.9	2271.6	2243.4	2243.4	2252.1	2258.6	2243.4
7.5°	2637.9	2568.6	2414.7	2349.6	2312.8	2306.3	2286.8	2271.6	2291.1	2284.6	2267.3
10°	2752.8	2631.4	2468.9	2412.5	2351.8	2336.6	2336.6	2343.1	2310.6	2321.5	2304.1
12.5°	2880.7	2718.1	2538.2	2473.2	2401.7	2393.0	2388.7	2341.0	2358.3	2349.6	2306.3
15°	3043.3	2817.8	2627.1	2516.5	2455.9	2416.8	2360.5	2351.8	2341.0	2319.3	2299.8
17.5°	3218.8	2926.2	2668.3	2529.6	2438.5	2410.3	2367.0	2321.5	2289.0	2293.3	2278.1
20°	3368.4	3025.9	2683.5	2542.6	2425.5	2371.3	2304.1	2275.9	2241.3	2239.1	2236.9
22.5°	3546.1	3160.3	2705.1	2507.9	2386.5	2330.1	2284.6	2234.8	2210.9	2180.6	2195.7
25°	3758.6	3212.3	2709.5	2488.4	2358.3	2258.6	2234.8	2180.6	2171.9	2128.6	2137.2
27.5°	3912.5	3240.5	2674.8	2427.7	2293.3	2217.4	2174.1	2135.1	2119.9	2087.4	2078.7
30°	4118.4	3283.9	2601.1	2351.8	2228.3	2143.7	2117.7	2109.0	2065.7	2031.0	2026.7
32.5°	4352.5	3312.0	2553.4	2273.8	2161.1	2096.0	2109.0	2067.9	2013.7	1983.3	1974.7
35°	4538.9	3322.9	2434.2	2184.9	2115.5	2074.4	2059.2	2050.5	1972.5	1944.3	1922.6
37.5°	4822.8	3299.0	2334.5	2122.1	2065.7	2050.5	2037.5	1979.0	1890.1	1848.9	1818.6
40°	5154.5	3292.5	2206.6	2033.2	2018.0	2035.3	1996.3	1905.3	1781.7	1736.2	1714.5
42.5°	5473.1	3338.1	2126.4	1985.5	1966.0	1972.5	1918.3	1781.7	1721.1	1695.0	1660.4
45°	6006.3	3433.4	1994.2	1911.8	1903.1	1898.8	1833.8	1690.7	1656.0	1623.5	1617.0
47.5°	6487.5	3370.6	1909.6	1835.9	1844.6	1820.8	1682.0	1636.5	1597.5	1565.0	1554.1
50°	6515.7	3221.0	1790.4	1777.4	1779.6	1738.4	1606.2	1575.8	1526.0	1504.3	1489.1
52.5°	6368.3	2976.1	1679.9	1684.2	1690.7	1623.5	1513.0	1491.3	1450.1	1419.8	1411.1
55°	5954.3	2594.6	1571.5	1588.8	1606.2	1478.3	1443.6	1389.4	1356.9	1313.5	1315.7
57.5°	5245.5	2089.5	1419.8	1447.9	1484.8	1343.9	1317.9	1250.7	1203.0	1168.3	1164.0
60°	3515.8	1487.0	1192.2	1203.0	1285.4	1229.0	1226.8	1159.6	1094.6	1064.3	1046.9
62.5°	2074.4	1135.8	1029.6	1018.8	1016.6	1049.1	1103.3	1079.4	994.9	936.4	953.7
65°	1086.0	981.9	958.1	921.2	899.5	890.9	932.1	942.9	886.5	823.7	819.3
67.5°	912.5	912.5	893.0	880.0	849.7	812.8	786.8	752.1	743.5	726.1	704.5
70°	830.2	851.9	845.4	815.0	789.0	747.8	680.6	624.3	570.1	550.6	563.6
72.5°	724.0	745.6	745.6	730.5	695.8	632.9	567.9	502.9	457.4	422.7	418.3
75°	557.1	567.9	593.9	576.6	531.1	492.0	424.8	357.6	314.3	281.8	275.3
77.5°	355.5	372.8	372.8	370.7	338.1	301.3	257.9	210.3	177.7	153.9	147.4
80°	236.3	247.1	255.8	247.1	225.4	197.2	164.7	132.2	108.4	88.9	84.5
82.5°	173.4	186.4	192.9	184.2	162.6	140.9	117.0	93.2	69.4	54.2	49.9
85°	67.2	69.4	78.0	93.2	91.0	88.9	71.5	52.0	39.0	28.2	26.0
87.5°	17.3	15.2	17.3	17.3	15.2	13.0	13.0	13.0	13.0	6.5	8.7
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)