

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: P528088

Luminaire Tested: **GALN-SA3A-827-U-T3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528088
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-16)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3A-827-U-T3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8556 lumens
Efficiency: N/A
Efficacy: 92.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

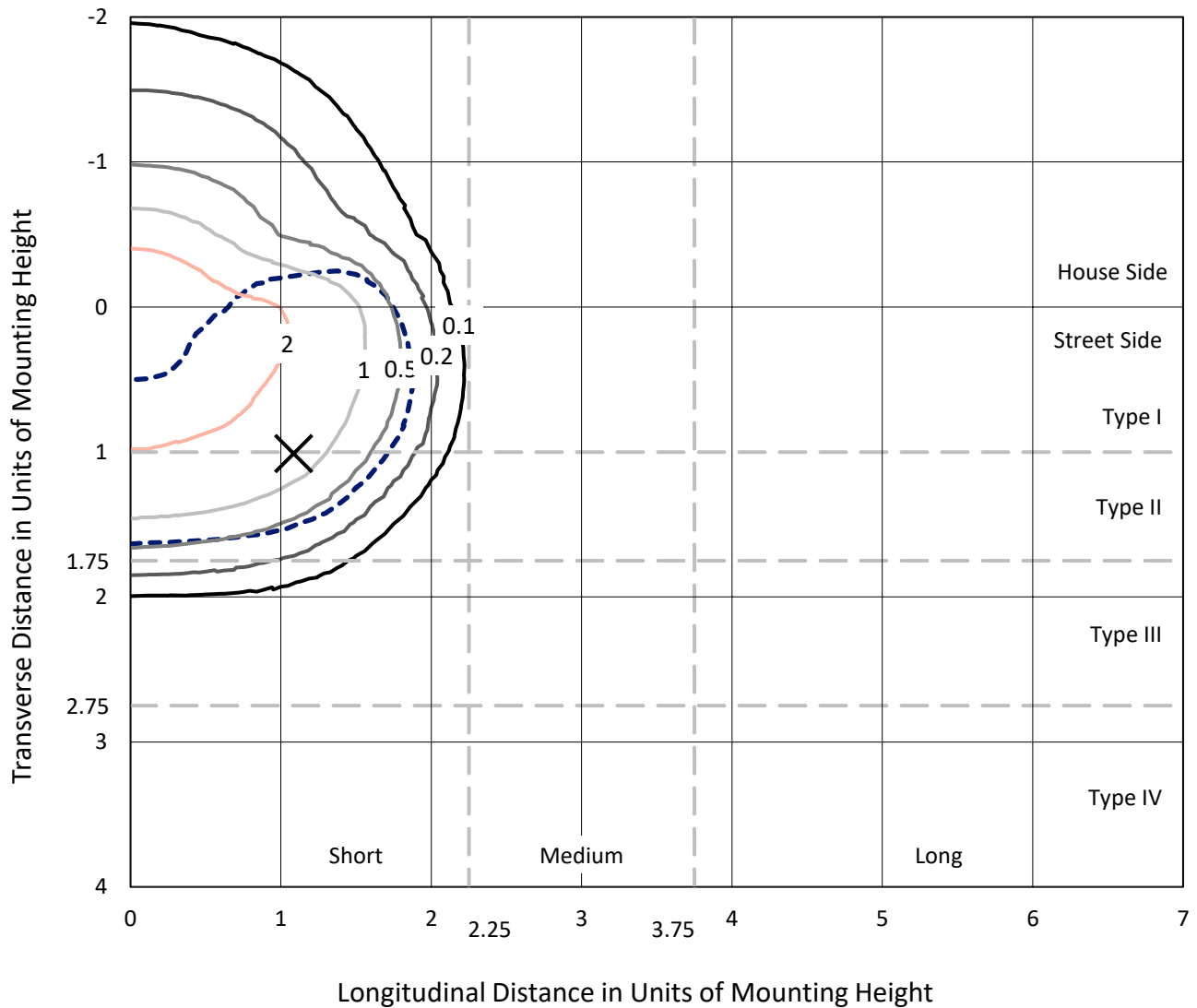
Input Watts (W): 93
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P528088
 CATALOG NUMBER: GALN-SA3A-827-U-T3-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

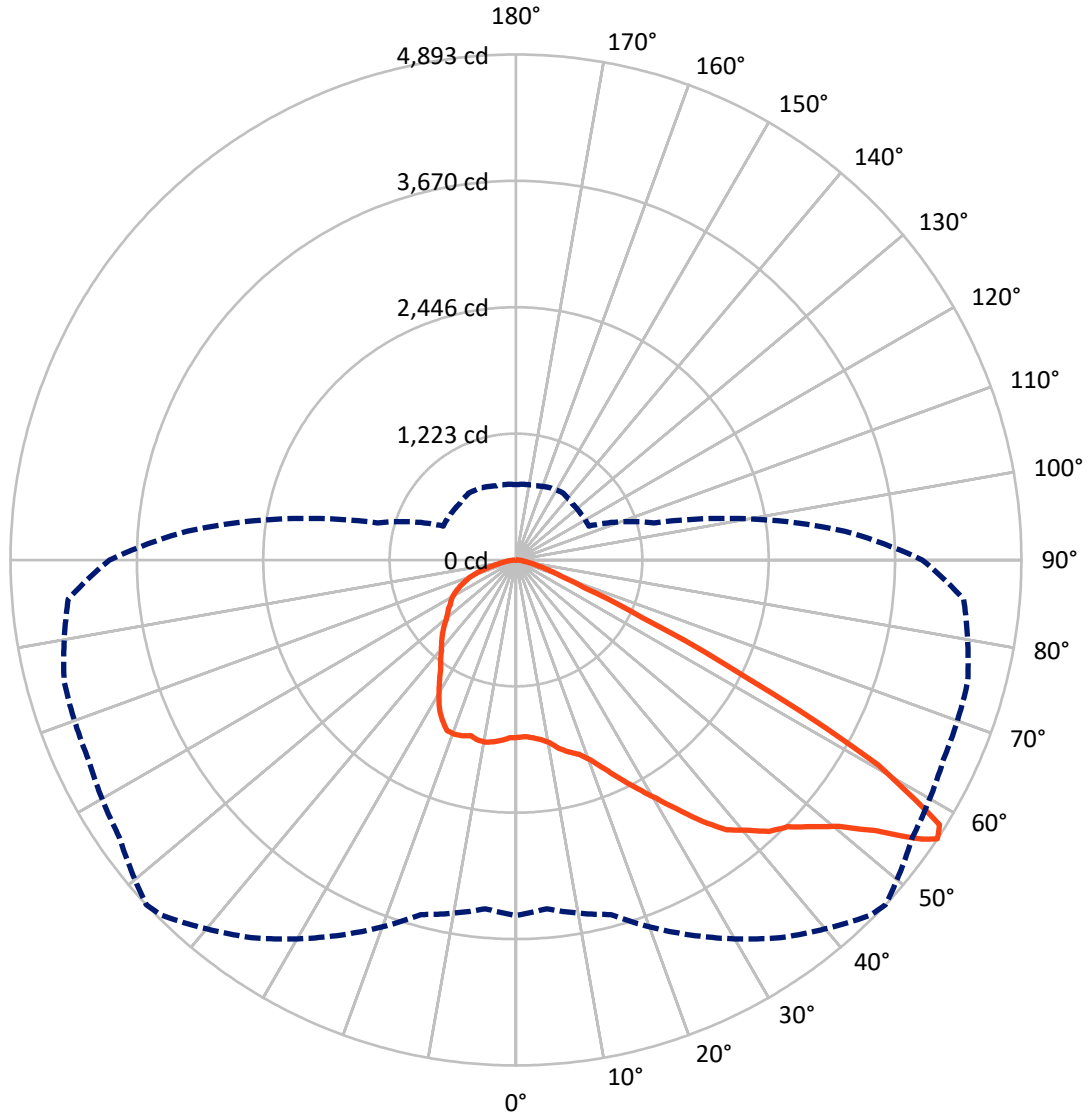
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 fc
 Type II - Short - N/A

REPORT NUMBER: P528088
CATALOG NUMBER: GALN-SA3A-827-U-T3-GRSWH

Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

REPORT NUMBER: P528088
 CATALOG NUMBER: GALN-SA3A-827-U-T3-GRSWH

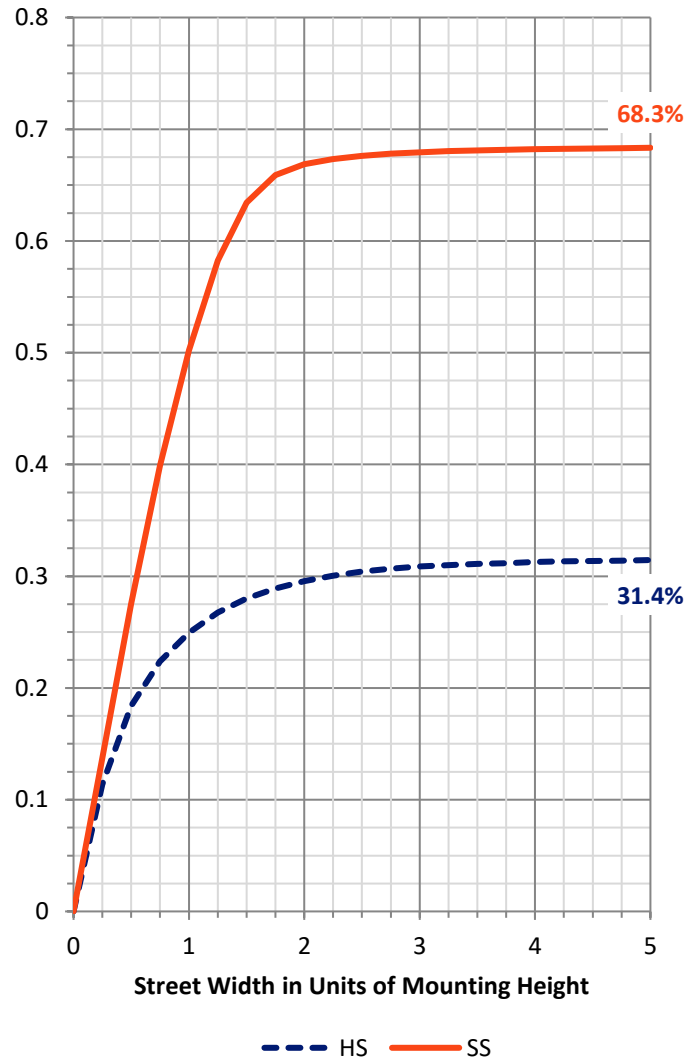
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2711.3	0.0	2711.3
	% Fixture	31.7	0.0	31.7
Street Side	Lumens	5844.7	0.0	5844.7
	% Fixture	68.3	0.0	68.3
Total	Lumens	8556.0	0.0	8556.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.5	2.0
10°-20°	528.2	6.2
20°-30°	933.8	10.9
30°-40°	1402.6	16.4
40°-50°	1924.9	22.5
50°-60°	2293.2	26.8
60°-70°	981.4	11.5
70°-80°	277.7	3.2
80°-90°	46.7	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°	8556.0	100.0
0°-180°	8556.0	100.0



REPORT NUMBER: P528088

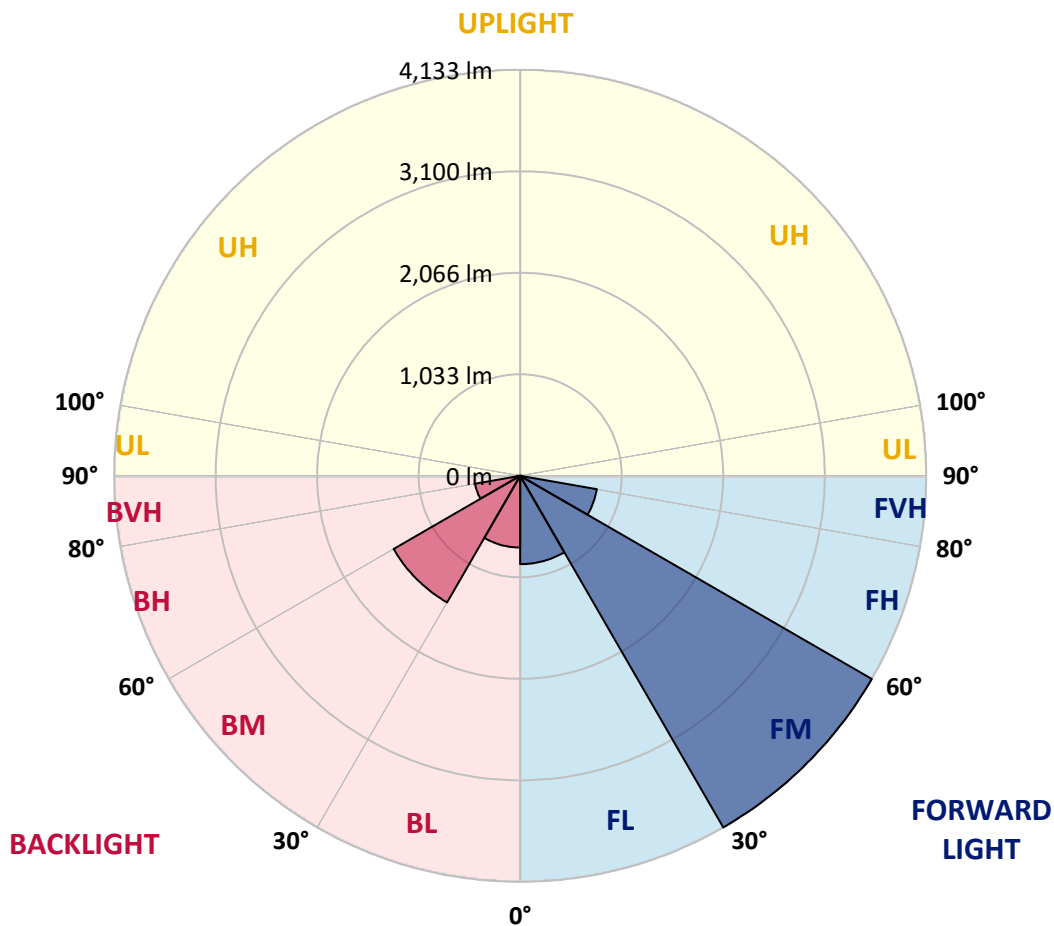
CATALOG NUMBER: GALN-SA3A-827-U-T3-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	899.5	10.5			
FM (30°-60°)	4132.7	48.3			
FH (60°-80°)	792.6	9.3			G1/1800
FVH (80°-90°)	19.8	0.2			G1/100
BL (0°-30°)	730.0	8.5	B2/1000		
BM (30°-60°)	1487.9	17.4	B2/2500		
BH (60°-80°)	466.5	5.5	B1/500		G1/500
BVH (80°-90°)	26.9	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type II Short





REPORT NUMBER: P528088

CATALOG NUMBER: GALN-SA3A-827-U-T3-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	1718.6	1718.6	1718.6	1718.6	1718.6	1718.6	1718.6	1718.6	1718.6	1718.6	1718.6
2.5°	1712.1	1708.8	1706.6	1724.1	1717.5	1718.6	1712.1	1718.6	1723.0	1713.2	1727.4
5°	1708.8	1718.6	1709.9	1715.4	1729.6	1725.2	1729.6	1742.6	1739.4	1736.1	1731.7
7.5°	1739.4	1740.5	1747.0	1749.2	1753.6	1749.2	1755.7	1767.7	1764.5	1745.9	1748.1
10°	1783.0	1785.2	1786.3	1798.3	1805.9	1807.0	1799.4	1788.5	1787.4	1812.5	1795.0
12.5°	1833.2	1827.8	1840.9	1845.2	1853.9	1863.8	1873.6	1850.7	1864.9	1866.0	1845.2
15°	1906.3	1911.8	1896.5	1896.5	1899.8	1900.9	1928.2	1917.2	1915.1	1903.1	1911.8
17.5°	2015.4	1978.3	1977.3	1962.0	1959.8	1968.5	1978.3	1987.1	2016.5	1992.5	1945.6
20°	2095.1	2103.8	2072.2	2053.6	2056.9	2076.6	2066.7	2106.0	2126.7	2087.5	2041.6
22.5°	2235.9	2206.4	2214.0	2172.6	2175.9	2196.6	2195.5	2235.9	2247.9	2185.7	2119.1
25°	2330.8	2323.2	2329.7	2297.0	2301.3	2317.7	2343.9	2410.5	2390.8	2322.1	2168.2
27.5°	2469.4	2454.1	2448.7	2436.7	2432.3	2475.9	2506.5	2577.4	2563.2	2462.8	2255.5
30°	2611.2	2601.4	2606.9	2557.8	2575.2	2668.0	2676.7	2773.8	2767.3	2590.5	2352.6
32.5°	2709.5	2714.9	2724.7	2697.4	2774.9	2849.1	2878.6	2988.8	2994.3	2809.8	2540.3
35°	2867.7	2849.1	2854.6	2886.2	2922.2	3057.5	3105.6	3178.7	3224.5	3040.1	2720.4
37.5°	2967.0	2986.6	2963.7	3013.9	3107.7	3270.3	3314.0	3389.3	3437.3	3267.1	2965.9
40°	3121.9	3090.3	3106.6	3142.7	3238.7	3450.4	3438.4	3515.8	3531.1	3460.2	3195.0
42.5°	3288.9	3273.6	3250.7	3332.5	3413.3	3567.1	3591.1	3555.1	3632.6	3649.0	3522.4
45°	3488.6	3507.1	3510.4	3512.6	3583.5	3717.7	3685.0	3653.3	3742.8	3861.8	3725.4
47.5°	3674.1	3615.1	3657.7	3716.6	3817.0	3818.1	3856.3	3781.0	3875.9	3981.8	3908.7
50°	3736.3	3707.9	3764.6	3875.9	4030.9	4047.3	4051.6	3944.7	3993.8	4077.8	3972.0
52.5°	3712.3	3702.4	3847.6	4020.0	4247.0	4329.9	4351.7	4219.7	4247.0	4208.8	4111.6
55°	3597.7	3627.1	3773.4	4124.7	4472.8	4729.3	4770.7	4603.8	4430.3	4459.7	4352.8
56°	3440.6	3389.3	3552.9	4005.8	4463.0	4859.1	4892.9	4684.5	4566.7	4528.5	4350.6
57.5°	2919.0	2852.4	3067.4	3604.2	4215.3	4810.0	4835.1	4718.4	4543.8	4466.3	4033.1
60°	1708.8	1741.6	2014.4	2485.8	3251.8	3943.6	4027.6	4112.7	3996.0	3649.0	3001.9
62.5°	824.9	804.2	999.5	1425.1	1981.6	2517.4	2492.3	2731.3	2862.2	2592.7	1895.4
65°	432.1	429.9	545.6	778.0	1089.0	1322.5	1345.4	1474.2	1654.3	1335.6	962.4
67.5°	317.5	326.3	384.1	546.7	700.6	714.7	711.5	775.8	793.3	671.1	591.4
70°	248.8	253.2	295.7	415.7	521.6	467.0	457.2	464.9	516.1	538.0	511.8
72.5°	180.0	184.4	220.4	280.4	326.3	318.6	325.2	367.7	431.0	453.9	426.7
75°	120.0	123.3	142.9	171.3	193.1	208.4	220.4	269.5	328.5	341.5	328.5
77.5°	82.9	86.2	99.3	121.1	123.3	133.1	137.5	160.4	196.4	212.8	204.1
80°	46.9	46.9	53.5	62.2	76.4	89.5	91.7	110.2	126.6	137.5	139.7
82.5°	21.8	22.9	28.4	38.2	50.2	62.2	64.4	76.4	88.4	99.3	102.6
85°	10.9	12.0	16.4	22.9	30.6	37.1	36.0	37.1	39.3	37.1	38.2
87.5°	3.3	3.3	4.4	5.5	4.4	5.5	5.5	6.5	7.6	8.7	9.8
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: P528088

CATALOG NUMBER: GALN-SA3A-827-U-T3-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1718.6	1718.6	1718.6	1718.6	1718.6	1718.6	1718.6	1718.6	1718.6	1718.6	1718.6
2.5°	1728.5	1731.7	1709.9	1730.6	1723.0	1721.9	1737.2	1735.0	1740.5	1738.3	1725.2
5°	1729.6	1721.9	1744.8	1724.1	1733.9	1754.7	1740.5	1773.2	1756.8	1767.7	1743.7
7.5°	1763.4	1765.6	1761.2	1769.9	1765.6	1775.4	1767.7	1775.4	1762.3	1763.4	1785.2
10°	1792.8	1786.3	1793.9	1783.0	1790.7	1787.4	1769.9	1764.5	1768.8	1763.4	1777.6
12.5°	1847.4	1835.4	1829.9	1816.8	1808.1	1775.4	1748.1	1732.8	1753.6	1756.8	1750.3
15°	1903.1	1904.1	1879.0	1849.6	1795.0	1745.9	1752.5	1757.9	1757.9	1766.7	1750.3
17.5°	1938.0	1938.0	1915.1	1856.1	1800.5	1772.1	1765.6	1748.1	1732.8	1730.6	1729.6
20°	1999.1	1980.5	1928.2	1855.0	1798.3	1785.2	1736.1	1694.6	1663.0	1652.1	1651.0
22.5°	2068.9	2022.0	1948.9	1857.2	1795.0	1776.5	1684.8	1622.6	1565.9	1541.9	1545.1
25°	2133.3	2058.0	1960.9	1847.4	1783.0	1693.5	1591.0	1504.8	1445.8	1426.2	1416.4
27.5°	2178.0	2096.2	1960.9	1856.1	1738.3	1600.8	1496.0	1385.8	1334.5	1321.4	1323.6
30°	2238.1	2144.2	1994.7	1837.6	1648.8	1480.8	1355.3	1283.3	1252.7	1241.8	1249.4
32.5°	2378.8	2269.7	2041.6	1792.8	1543.0	1360.7	1259.2	1218.9	1174.1	1152.3	1144.7
35°	2531.6	2388.6	2087.5	1717.5	1424.0	1251.6	1188.3	1151.2	1097.7	1073.7	1078.1
37.5°	2747.6	2541.4	2090.7	1593.2	1295.3	1190.5	1132.7	1074.8	1031.2	994.1	983.2
40°	3039.0	2749.8	2083.1	1462.2	1191.6	1118.5	1075.9	1003.9	954.8	928.6	934.1
42.5°	3295.4	2994.3	2051.5	1313.8	1097.7	1069.4	1021.4	950.4	902.4	875.1	873.0
45°	3511.5	3174.3	1991.4	1187.2	1019.2	1014.8	959.2	904.6	866.4	841.3	852.2
47.5°	3711.2	3319.4	1900.9	1060.6	947.2	955.9	902.4	868.6	844.6	821.7	820.6
50°	3783.2	3317.2	1821.2	955.9	889.3	885.0	882.8	846.8	821.7	802.0	810.8
52.5°	3903.2	3354.3	1735.0	883.9	837.0	838.0	845.7	819.5	791.1	779.1	790.0
55°	4075.6	3359.8	1545.1	799.8	793.3	800.9	800.9	783.5	759.5	749.7	744.2
56°	3934.9	3197.2	1385.8	778.0	771.5	771.5	792.2	772.6	743.1	735.5	728.9
57.5°	3629.3	2801.1	1159.9	751.8	742.0	757.3	768.2	747.5	720.2	709.3	715.8
60°	2503.2	1895.4	871.9	695.1	695.1	720.2	728.9	698.4	686.4	685.3	676.5
62.5°	1461.1	1104.3	682.0	643.8	646.0	666.7	673.3	655.8	640.5	659.1	667.8
65°	774.8	659.1	584.9	589.2	590.3	606.7	635.1	634.0	632.9	638.4	639.4
67.5°	560.9	547.8	531.4	527.0	529.2	541.2	569.6	591.4	590.3	577.2	567.4
70°	499.8	481.2	471.4	472.5	463.8	477.9	500.9	515.0	489.9	474.7	468.1
72.5°	415.7	410.3	403.7	404.8	387.4	384.1	357.9	357.9	351.4	347.0	354.6
75°	317.5	315.4	318.6	313.2	294.6	275.0	259.7	245.5	223.7	215.0	210.6
77.5°	200.8	207.3	215.0	203.0	195.3	181.1	165.9	151.7	134.2	124.4	124.4
80°	136.4	141.9	147.3	145.1	136.4	123.3	111.3	96.0	84.0	76.4	75.3
82.5°	103.7	108.0	115.7	106.9	98.2	87.3	77.5	66.6	55.7	46.9	46.9
85°	37.1	42.6	46.9	51.3	54.6	55.7	48.0	39.3	31.6	25.1	24.0
87.5°	9.8	10.9	12.0	10.9	10.9	10.9	12.0	10.9	9.8	7.6	7.6
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)