

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: P647901

Luminaire Tested: **GALN-SA4A-835-U-T3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647901
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-15)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4A-835-U-T3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8458.8 lumens
Efficiency: N/A
Efficacy: 69.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

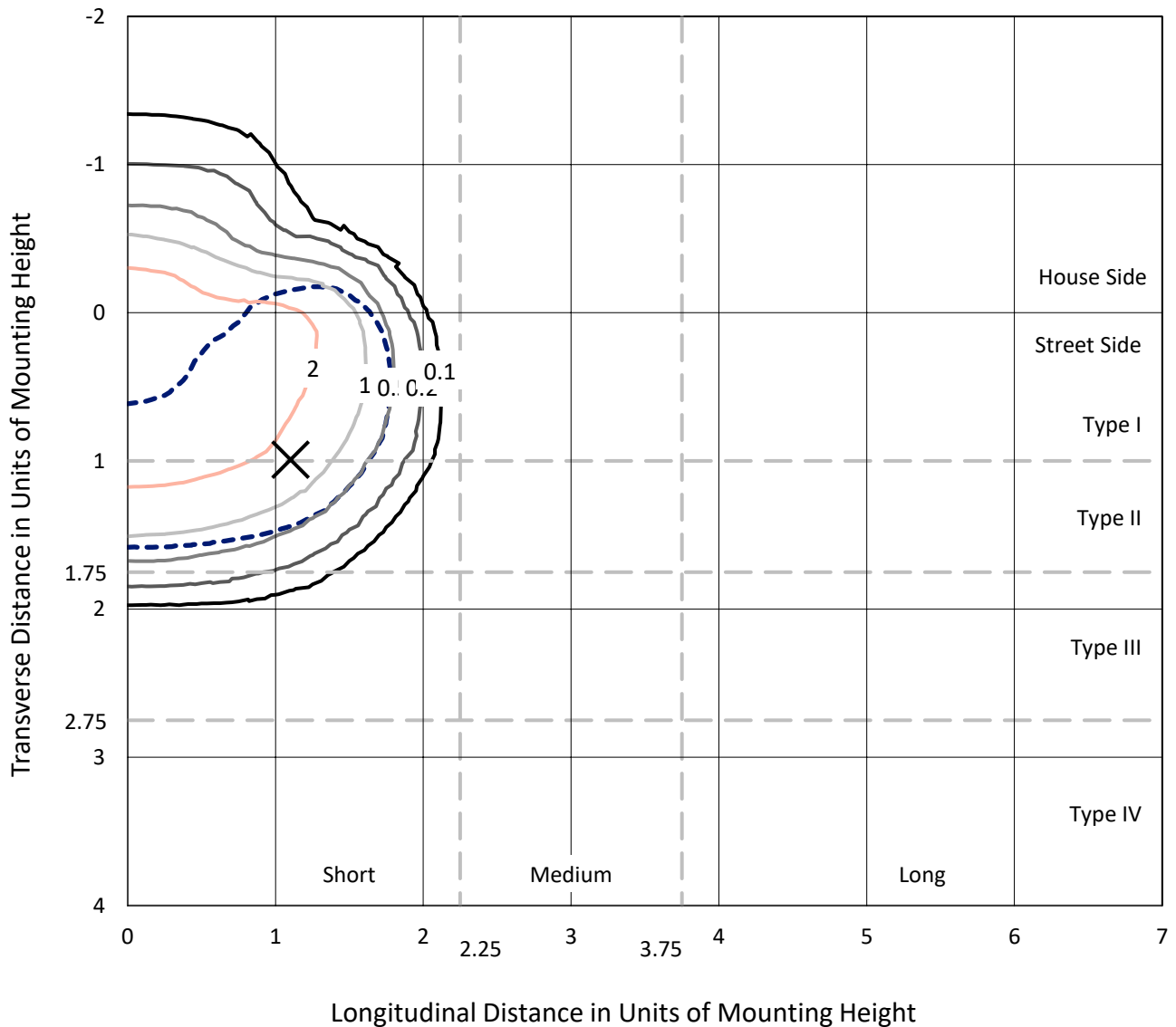
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P647901
 CATALOG NUMBER: GALN-SA4A-835-U-T3-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

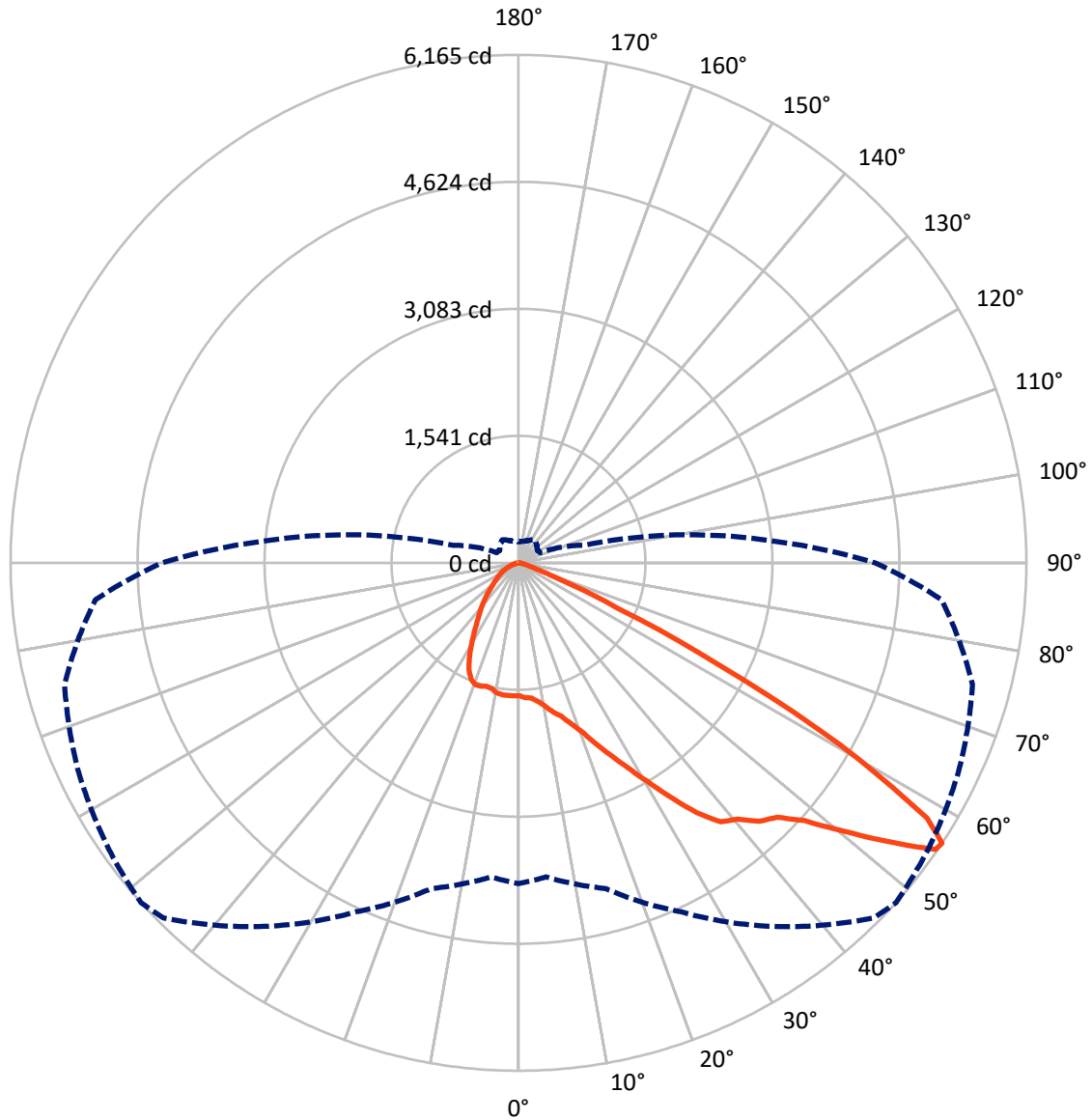
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 fc
 Type II - Short - N/A

REPORT NUMBER: P647901
CATALOG NUMBER: GALN-SA4A-835-U-T3-GRSBK

Luminous Intensity Polar Plot



— Vertical Plane Through 48-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical



REPORT NUMBER: P647901
 CATALOG NUMBER: GALN-SA4A-835-U-T3-GRSBK

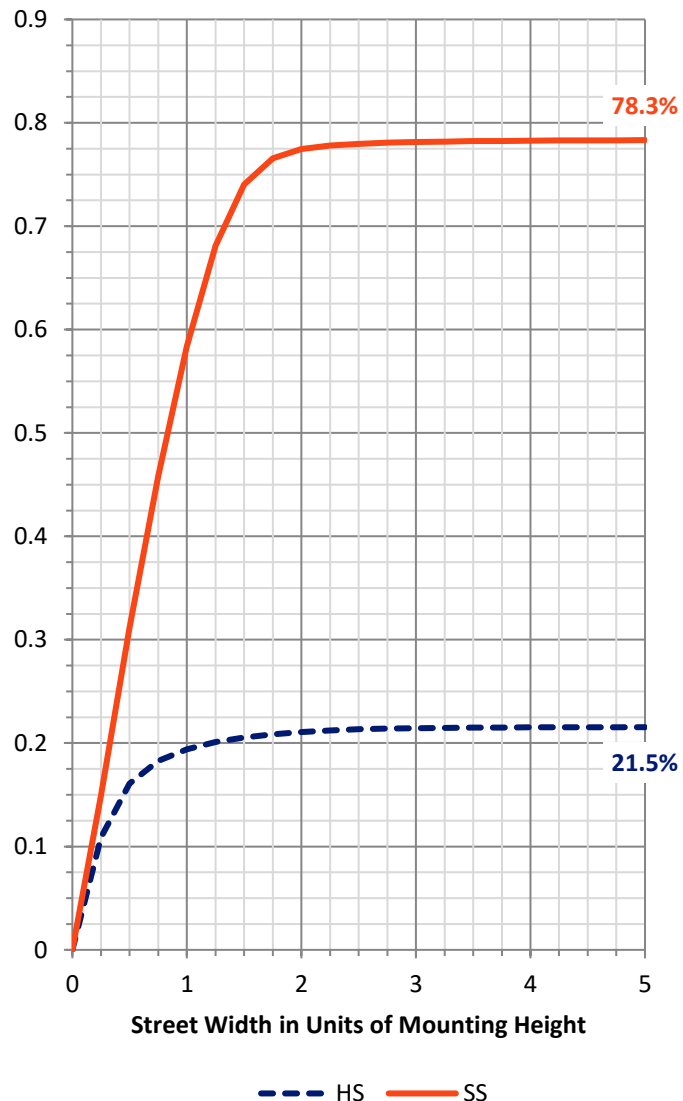
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1839.6	0.0	1839.6
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	6619.1	0.0	6619.1
	% Fixture	78.3	0.0	78.3
Total	Lumens	8458.8	0.0	8458.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	157.4	1.9
10°-20°	503.0	5.9
20°-30°	912.3	10.8
30°-40°	1433.0	16.9
40°-50°	2090.5	24.7
50°-60°	2518.6	29.8
60°-70°	737.4	8.7
70°-80°	93.5	1.1
80°-90°	13.1	0.2
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°	8458.8	100.0
0°-180°	8458.8	100.0

Coefficient of Utilization



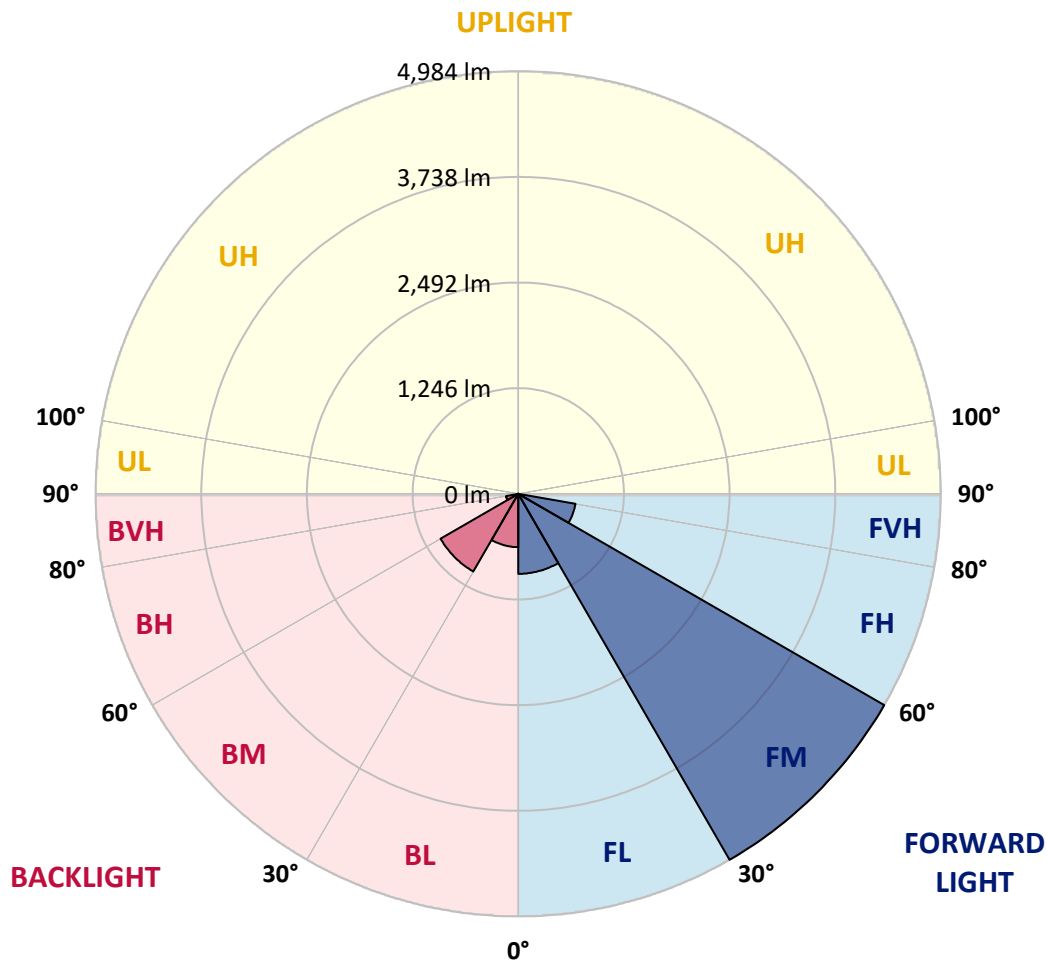
REPORT NUMBER: P647901
 CATALOG NUMBER: GALN-SA4A-835-U-T3-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	943.8	11.2			
FM (30°-60°)	4983.9	58.9			
FH (60°-80°)	684.8	8.1			G1/1800
FVH (80°-90°)	6.6	0.1			G0/10
BL (0°-30°)	628.8	7.4	B2/1000		
BM (30°-60°)	1058.1	12.5	B2/2500		
BH (60°-80°)	146.2	1.7	B1/500		G1/500
BVH (80°-90°)	6.5	0.1			G0/10
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: P647901

CATALOG NUMBER: GALN-SA4A-835-U-T3-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	48°	55°	65°	75°	85°
0°	1615.6	1615.6	1615.6	1615.6	1615.6	1615.6	1615.6	1615.6	1615.6	1615.6	1615.6
2.5°	1644.9	1637.2	1637.2	1624.9	1638.7	1632.6	1637.2	1621.7	1637.2	1614.1	1632.6
5°	1652.6	1654.2	1648.0	1655.7	1655.7	1664.9	1649.5	1663.4	1671.1	1654.2	1646.4
7.5°	1692.6	1695.7	1694.2	1688.0	1700.4	1698.8	1697.2	1686.5	1689.6	1683.4	1674.1
10°	1771.1	1769.7	1777.3	1761.9	1752.7	1763.5	1766.5	1749.6	1737.3	1732.7	1703.4
12.5°	1885.2	1866.7	1855.9	1840.5	1845.1	1829.7	1857.4	1828.1	1822.0	1794.2	1765.0
15°	1977.5	1974.5	1976.1	1951.4	1923.7	1929.8	1929.8	1914.4	1905.2	1871.3	1829.7
17.5°	2167.0	2102.3	2116.2	2085.4	2062.3	2060.7	2046.8	2050.0	2025.3	1954.4	1891.3
20°	2314.9	2287.1	2265.5	2213.2	2177.8	2188.6	2182.4	2167.0	2159.3	2066.9	1977.5
22.5°	2447.3	2456.6	2421.1	2407.3	2358.0	2362.6	2374.9	2361.1	2302.6	2207.0	2074.6
25°	2633.7	2622.9	2575.1	2558.2	2512.0	2528.9	2576.7	2565.9	2528.9	2356.4	2150.0
27.5°	2853.9	2816.9	2826.2	2749.2	2704.5	2752.2	2809.2	2863.1	2758.4	2532.0	2239.4
30°	3009.5	2970.9	2967.9	2964.8	2954.0	3009.5	3075.7	3125.0	3040.2	2707.6	2387.2
32.5°	3086.5	3095.7	3121.9	3112.7	3206.6	3320.5	3389.9	3460.7	3354.5	2994.0	2582.9
35°	3291.3	3232.8	3291.3	3297.4	3394.5	3636.3	3724.1	3893.5	3867.3	3399.2	2821.5
37.5°	3411.5	3406.8	3414.5	3473.1	3567.0	3865.8	3990.6	4121.5	4072.1	3642.4	3118.8
40°	3610.1	3622.5	3620.9	3665.5	3768.7	4038.3	4089.1	4195.4	4200.0	3979.8	3556.2
42.5°	3928.9	3879.7	3847.3	3893.5	4038.3	4187.7	4289.4	4267.7	4420.3	4389.4	4118.3
45°	4215.4	4244.6	4197.0	4273.9	4326.3	4406.4	4403.3	4449.5	4643.6	4789.9	4541.9
47.5°	4483.4	4501.9	4525.0	4577.3	4691.3	4703.6	4677.5	4657.4	4925.4	5076.3	4869.9
50°	4643.6	4660.5	4768.3	4862.3	5074.8	5102.6	5117.9	5067.1	5248.8	5265.8	5179.5
52.5°	4600.4	4618.9	4769.9	5079.4	5418.3	5672.4	5626.2	5540.0	5529.2	5595.4	5466.0
55°	4218.5	4201.6	4409.5	4891.6	5526.1	6136.0	6142.2	6051.3	5877.3	5832.6	5422.9
56°	3893.5	3827.3	4092.2	4674.4	5387.4	6096.0	6165.3	6068.2	5905.0	5704.7	5156.4
57.5°	3189.6	3252.8	3516.1	3998.2	4908.5	5807.9	5848.0	5824.9	5701.6	5365.9	4537.3
60°	1758.9	1869.7	2102.3	2692.2	3494.6	4457.2	4489.6	4677.5	4700.6	4109.1	3121.9
62.5°	747.0	734.7	976.5	1410.8	1989.9	2690.6	2750.8	2943.2	2978.7	2368.7	1566.3
65°	303.4	320.3	442.0	710.0	1052.0	1225.9	1310.7	1373.9	1490.9	978.0	577.5
67.5°	200.2	198.6	260.3	405.0	566.8	546.8	546.8	577.5	534.4	398.9	249.5
70°	143.2	147.8	186.4	280.3	352.7	261.8	251.0	240.3	272.6	263.4	201.8
72.5°	94.0	100.1	124.7	167.9	183.3	143.2	143.2	172.5	224.9	212.5	164.8
75°	61.6	63.1	77.0	97.0	90.9	73.9	81.7	115.5	163.3	157.1	117.1
77.5°	41.6	43.1	52.4	63.1	50.8	41.6	44.6	58.5	80.1	80.1	61.6
80°	15.4	16.9	21.5	20.0	23.1	29.3	32.3	40.0	47.8	47.8	41.6
82.5°	0.0	1.6	4.6	10.8	16.9	23.1	26.2	30.8	35.4	40.0	38.5
85°	0.0	1.6	4.6	7.7	12.3	13.9	15.4	10.8	9.2	9.2	7.7
87.5°	0.0	0.0	1.6	1.6	1.6	1.6	1.6	1.6	3.1	1.6	1.6
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: P647901

CATALOG NUMBER: GALN-SA4A-835-U-T3-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1615.6	1615.6	1615.6	1615.6	1615.6	1615.6	1615.6	1615.6	1615.6	1615.6	1615.6
2.5°	1615.6	1614.1	1614.1	1609.5	1618.7	1614.1	1617.1	1615.6	1595.6	1611.0	1600.2
5°	1632.6	1643.4	1626.4	1623.3	1611.0	1615.6	1615.6	1600.2	1614.1	1612.5	1609.5
7.5°	1675.7	1657.2	1638.7	1620.3	1617.1	1612.5	1595.6	1589.4	1600.2	1587.9	1606.4
10°	1694.2	1697.2	1669.5	1644.9	1621.7	1589.4	1566.3	1552.5	1535.5	1554.0	1564.8
12.5°	1778.9	1748.0	1700.4	1661.8	1583.3	1551.0	1527.9	1521.7	1551.0	1557.1	1546.3
15°	1808.2	1803.6	1741.9	1655.7	1574.1	1535.5	1540.2	1527.9	1530.9	1515.5	1518.6
17.5°	1868.2	1815.9	1743.4	1635.6	1572.5	1563.3	1535.5	1486.3	1458.5	1446.2	1457.0
20°	1934.4	1883.6	1778.9	1643.4	1586.4	1561.7	1470.9	1410.8	1353.8	1323.0	1324.5
22.5°	1993.0	1929.8	1763.5	1646.4	1598.7	1497.0	1387.7	1269.1	1198.2	1150.5	1152.0
25°	2063.8	1974.5	1769.7	1652.6	1566.3	1393.8	1236.7	1121.3	1036.5	1004.2	1014.9
27.5°	2103.8	2002.2	1803.6	1666.5	1481.6	1247.6	1078.1	970.3	921.0	905.6	904.1
30°	2224.0	2063.8	1845.1	1638.7	1339.9	1090.4	933.3	867.1	819.3	805.5	808.6
32.5°	2402.6	2176.3	1899.0	1566.3	1195.2	950.2	839.4	790.1	745.4	719.3	716.2
35°	2552.0	2368.7	1956.0	1453.9	1027.3	842.4	773.1	711.6	643.8	614.5	606.8
37.5°	2837.0	2585.9	1943.6	1284.5	867.1	762.4	702.3	626.9	568.3	528.3	523.7
40°	3215.9	2840.0	1883.6	1078.1	748.5	691.5	626.9	554.4	482.1	448.2	445.1
42.5°	3676.3	3151.2	1774.3	868.7	629.9	620.7	562.2	479.0	414.3	389.6	391.2
45°	4050.6	3417.6	1663.4	697.7	542.1	551.4	500.6	422.0	377.3	357.3	357.3
47.5°	4383.3	3597.8	1543.2	576.1	460.5	482.1	437.4	391.2	352.7	337.3	334.2
50°	4703.6	3781.1	1423.1	466.7	392.8	414.3	409.7	372.7	341.9	323.5	324.9
52.5°	4903.9	3810.3	1270.7	381.9	343.4	368.1	383.5	349.6	315.7	305.0	301.8
55°	4659.0	3433.0	985.7	314.2	291.1	323.5	352.7	314.2	288.0	269.5	268.0
56°	4329.4	3069.5	824.0	289.6	275.7	311.1	341.9	300.4	271.1	260.3	252.6
57.5°	3665.5	2512.0	608.4	257.2	255.6	289.6	324.9	286.5	252.6	243.4	243.4
60°	2285.6	1413.9	368.1	215.6	221.7	257.2	292.6	255.6	224.9	224.9	229.5
62.5°	1041.2	588.3	223.3	183.3	191.0	221.7	260.3	231.0	214.1	231.0	234.1
65°	354.2	254.2	161.7	146.3	151.0	183.3	223.3	234.1	232.6	243.4	249.5
67.5°	198.6	163.3	135.5	121.7	118.6	135.5	183.3	234.1	224.9	220.3	223.3
70°	167.9	138.6	120.1	107.8	103.2	109.4	141.7	177.1	158.6	154.0	151.0
72.5°	135.5	115.5	104.8	97.0	83.2	70.9	64.7	67.7	75.5	80.1	87.8
75°	95.5	87.8	87.8	78.5	60.1	44.6	35.4	29.3	20.0	13.9	15.4
77.5°	53.9	53.9	55.4	47.8	38.5	29.3	21.5	15.4	7.7	3.1	1.6
80°	37.0	40.0	43.1	38.5	32.3	26.2	18.5	10.8	4.6	0.0	0.0
82.5°	37.0	41.6	44.6	38.5	32.3	24.7	18.5	10.8	4.6	1.6	0.0
85°	7.7	9.2	10.8	12.3	18.5	18.5	13.9	9.2	4.6	1.6	0.0
87.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	0.0	0.0
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)