

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: P527541

Luminaire Tested: **GALN-SA2C-740-U-T3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527541
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-SA2C-740-U-T3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 4000K, 1050mA 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: 8443 lumens
Efficiency: N/A
Efficacy: 78.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

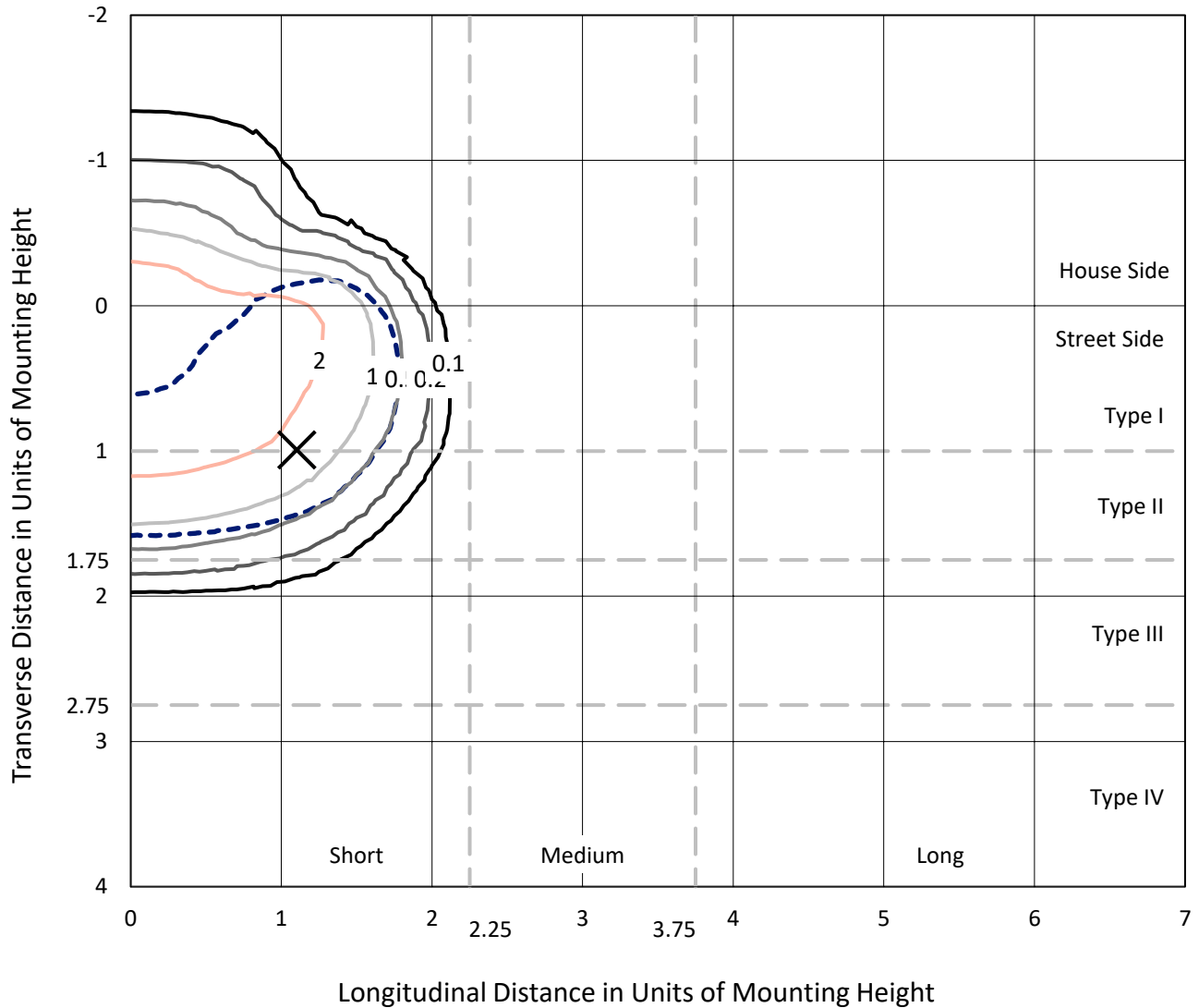
Input Watts (W): 108
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

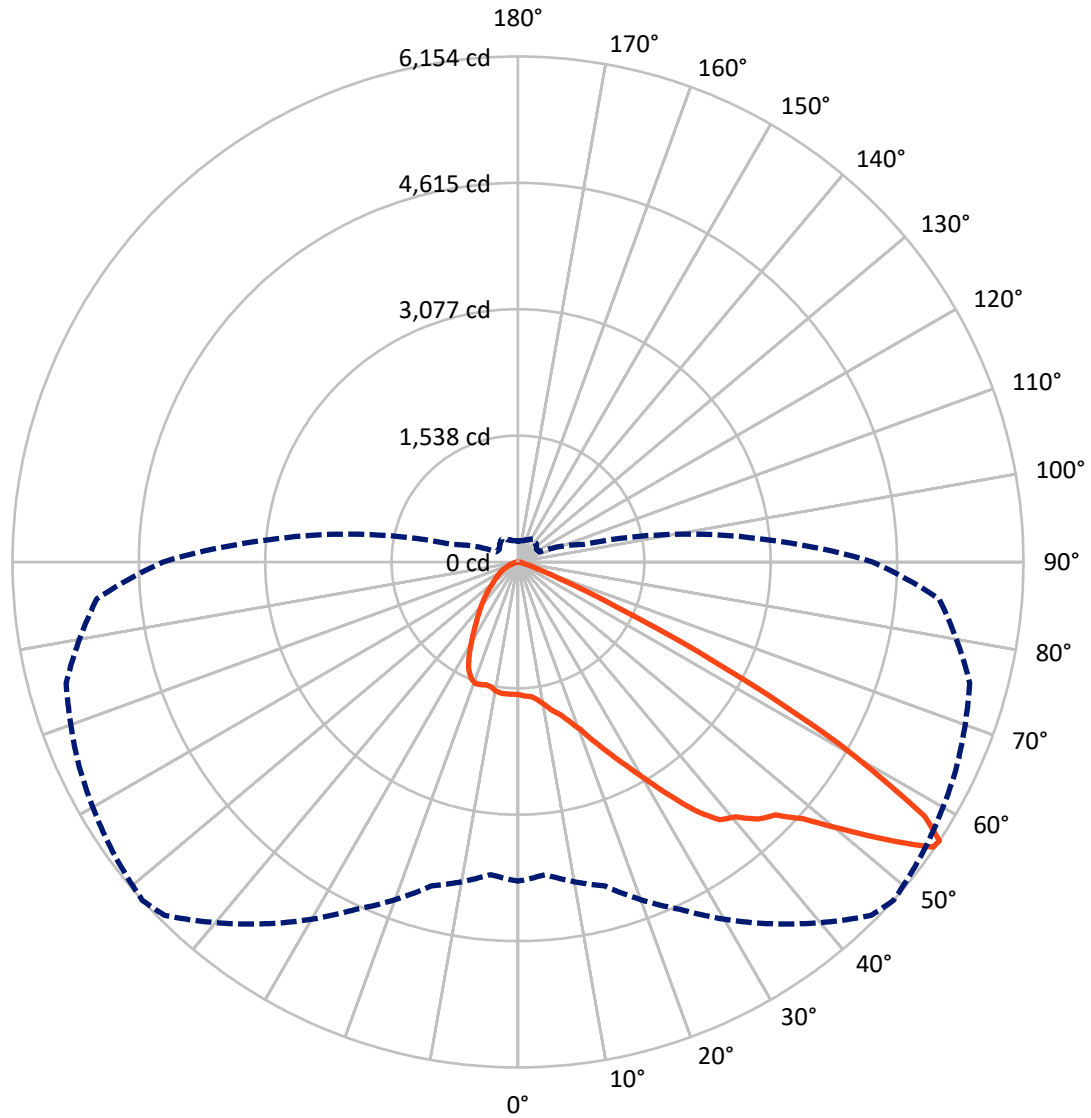
✕ Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P527541
CATALOG NUMBER: GALN-SA2C-740-U-T3-GRSBK

Luminous Intensity Polar Plot



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

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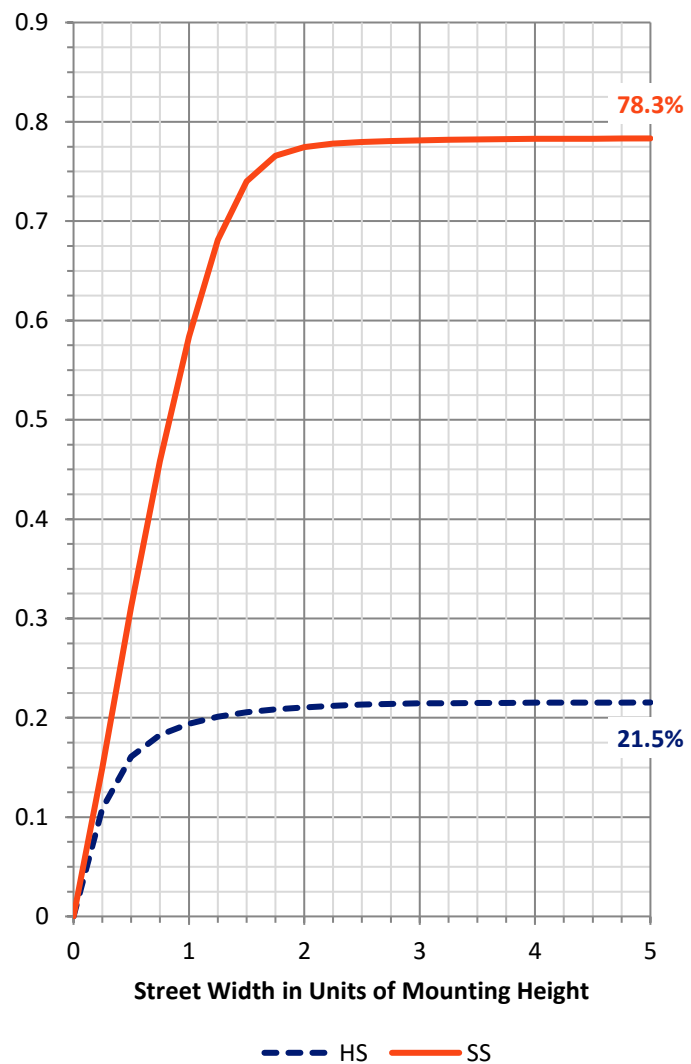
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1836.2	0.0	1836.2
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	6606.8	0.0	6606.8
	% Fixture	78.3	0.0	78.3
Total	Lumens	8443.0	0.0	8443.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	157.1	1.9
10°-20°	502.0	5.9
20°-30°	910.6	10.8
30°-40°	1430.3	16.9
40°-50°	2086.6	24.7
50°-60°	2513.9	29.8
60°-70°	736.1	8.7
70°-80°	93.4	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°	8443.0	100.0
0°-180°	8443.0	100.0

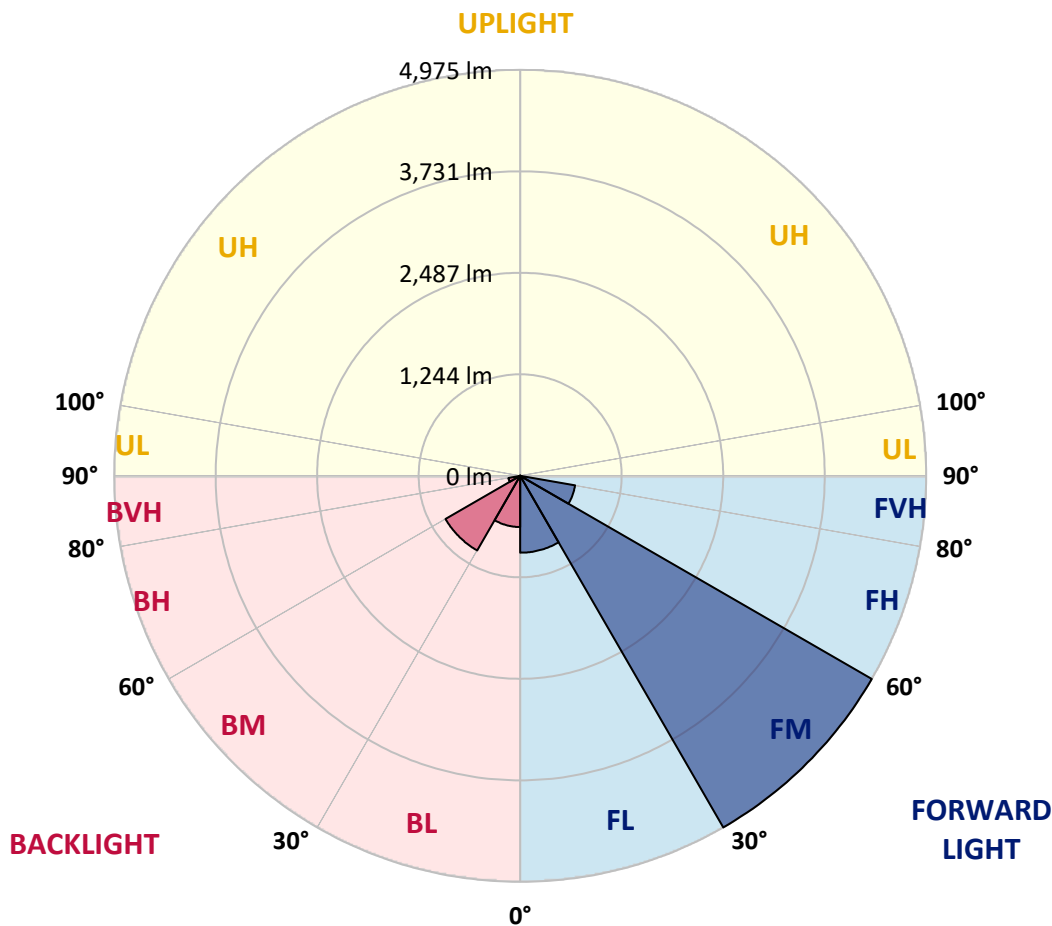


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	942.1	11.2			
FM (30°-60°)	4974.6	58.9			
FH (60°-80°)	683.5	8.1			G1/1800
FVH (80°-90°)	6.6	0.1			G0/10
BL (0°-30°)	627.6	7.4	B2/1000		
BM (30°-60°)	1056.2	12.5	B2/2500		
BH (60°-80°)	145.9	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





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CATALOG NUMBER: GALN-SA2C-740-U-T3-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	48°	55°	65°	75°	85°
0°	1612.6	1612.6	1612.6	1612.6	1612.6	1612.6	1612.6	1612.6	1612.6	1612.6	1612.6
2.5°	1641.8	1634.1	1634.1	1621.8	1635.7	1629.5	1634.1	1618.8	1634.1	1611.1	1629.5
5°	1649.5	1651.0	1644.9	1652.6	1652.6	1661.8	1646.4	1660.3	1668.0	1651.0	1643.4
7.5°	1689.5	1692.6	1691.0	1684.9	1697.2	1695.6	1694.1	1683.3	1686.4	1680.3	1671.0
10°	1767.9	1766.3	1774.0	1758.7	1749.4	1760.2	1763.3	1746.4	1734.1	1729.5	1700.2
12.5°	1881.6	1863.2	1852.4	1837.1	1841.7	1826.3	1854.0	1824.8	1818.6	1790.9	1761.7
15°	1973.9	1970.8	1972.3	1947.7	1920.1	1926.2	1926.2	1910.9	1901.6	1867.8	1826.3
17.5°	2163.0	2098.4	2112.2	2081.5	2058.4	2056.9	2043.1	2046.1	2021.5	1950.8	1887.8
20°	2310.5	2282.9	2261.4	2209.1	2173.7	2184.5	2178.3	2163.0	2155.3	2063.0	1973.9
22.5°	2442.8	2452.0	2416.6	2402.8	2353.6	2358.2	2370.5	2356.7	2298.2	2202.9	2070.7
25°	2628.8	2618.0	2570.3	2553.4	2507.3	2524.2	2571.9	2561.1	2524.2	2352.1	2146.1
27.5°	2848.6	2811.7	2820.9	2744.1	2699.5	2747.1	2804.0	2857.8	2753.3	2527.3	2235.2
30°	3003.9	2965.4	2962.4	2959.3	2948.5	3003.9	3070.0	3119.2	3034.6	2702.6	2382.8
32.5°	3080.7	3090.0	3116.1	3106.9	3200.6	3314.4	3383.6	3454.3	3348.2	2988.5	2578.0
35°	3285.2	3226.8	3285.2	3291.3	3388.2	3629.5	3717.2	3886.3	3860.1	3392.8	2816.3
37.5°	3405.1	3400.5	3408.2	3466.6	3560.4	3858.6	3983.1	4113.8	4064.6	3635.7	3113.0
40°	3603.4	3615.7	3614.2	3658.7	3761.7	4030.8	4081.5	4187.6	4192.2	3972.4	3549.6
42.5°	3921.6	3872.4	3840.1	3886.3	4030.8	4179.9	4281.4	4259.8	4412.0	4381.3	4110.7
45°	4207.6	4236.8	4189.1	4266.0	4318.2	4398.2	4395.1	4441.2	4634.9	4781.0	4533.5
47.5°	4475.0	4493.5	4516.6	4568.8	4682.6	4694.9	4668.7	4648.8	4916.3	5066.9	4860.9
50°	4634.9	4651.8	4759.4	4853.2	5065.4	5093.0	5108.4	5057.7	5239.1	5256.0	5169.9
52.5°	4591.9	4610.3	4761.0	5070.0	5408.2	5661.8	5615.7	5529.6	5518.9	5585.0	5455.8
55°	4210.6	4193.7	4401.3	4882.4	5515.8	6124.6	6130.7	6040.0	5866.3	5821.7	5412.8
56°	3886.3	3820.2	4084.6	4665.7	5377.4	6084.6	6153.8	6056.9	5894.0	5694.1	5146.8
57.5°	3183.7	3246.8	3509.6	3990.8	4899.3	5797.1	5837.1	5814.0	5691.0	5355.9	4528.9
60°	1755.6	1866.3	2098.4	2687.2	3488.1	4448.9	4481.2	4668.7	4691.8	4101.5	3116.1
62.5°	745.6	733.3	974.6	1408.2	1986.2	2685.6	2745.6	2937.8	2973.1	2364.4	1563.4
65°	302.8	319.8	441.2	708.7	1050.0	1223.7	1308.2	1371.3	1488.1	976.2	576.5
67.5°	199.8	198.3	259.8	404.3	565.7	545.7	545.7	576.5	533.4	398.2	249.0
70°	143.0	147.6	186.0	279.8	352.0	261.3	250.6	239.8	272.1	262.9	201.4
72.5°	93.8	99.9	124.5	167.6	182.9	143.0	143.0	172.2	224.4	212.1	164.5
75°	61.5	63.0	76.9	96.8	90.7	73.8	81.5	115.3	163.0	156.8	116.8
77.5°	41.5	43.0	52.3	63.0	50.7	41.5	44.6	58.4	79.9	79.9	61.5
80°	15.4	16.9	21.5	20.0	23.1	29.2	32.3	40.0	47.7	47.7	41.5
82.5°	0.0	1.5	4.6	10.8	16.9	23.1	26.1	30.7	35.4	40.0	38.4
85°	0.0	1.5	4.6	7.7	12.3	13.8	15.4	10.8	9.2	9.2	7.7
87.5°	0.0	0.0	1.5	1.5	1.5	1.5	1.5	1.5	3.1	1.5	1.5
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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CATALOG NUMBER: GALN-SA2C-740-U-T3-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1612.6	1612.6	1612.6	1612.6	1612.6	1612.6	1612.6	1612.6	1612.6	1612.6	1612.6
2.5°	1612.6	1611.1	1611.1	1606.5	1615.7	1611.1	1614.2	1612.6	1592.6	1608.0	1597.2
5°	1629.5	1640.3	1623.4	1620.3	1608.0	1612.6	1612.6	1597.2	1611.1	1609.5	1606.5
7.5°	1672.6	1654.1	1635.7	1617.2	1614.2	1609.5	1592.6	1586.5	1597.2	1584.9	1603.4
10°	1691.0	1694.1	1666.4	1641.8	1618.8	1586.5	1563.4	1549.6	1532.7	1551.1	1561.9
12.5°	1775.6	1744.8	1697.2	1658.7	1580.3	1548.1	1525.0	1518.8	1548.1	1554.2	1543.4
15°	1804.8	1800.2	1738.7	1652.6	1571.1	1532.7	1537.3	1525.0	1528.1	1512.7	1515.8
17.5°	1864.7	1812.5	1740.2	1632.6	1569.6	1560.3	1532.7	1483.5	1455.8	1443.5	1454.3
20°	1930.8	1880.1	1775.6	1640.3	1583.4	1558.8	1468.1	1408.2	1351.3	1320.5	1322.1
22.5°	1989.3	1926.2	1760.2	1643.4	1595.7	1494.2	1385.1	1266.7	1196.0	1148.4	1149.9
25°	2060.0	1970.8	1766.3	1649.5	1563.4	1391.2	1234.4	1119.1	1034.6	1002.3	1013.1
27.5°	2099.9	1998.5	1800.2	1663.3	1478.9	1245.2	1076.1	968.5	919.3	903.9	902.4
30°	2219.8	2060.0	1841.7	1635.7	1337.4	1088.4	931.6	865.5	817.8	804.0	807.1
32.5°	2398.2	2172.2	1895.5	1563.4	1192.9	948.5	837.8	788.6	744.0	717.9	714.8
35°	2547.3	2364.4	1952.4	1451.2	1025.4	840.9	771.7	710.2	642.6	613.4	605.7
37.5°	2831.7	2581.1	1940.1	1282.1	865.5	761.0	701.0	625.7	567.3	527.3	522.7
40°	3209.9	2834.8	1880.1	1076.1	747.1	690.2	625.7	553.4	481.2	447.4	444.3
42.5°	3669.5	3145.3	1771.0	867.0	628.8	619.5	561.1	478.1	413.5	388.9	390.5
45°	4043.1	3411.2	1660.3	696.4	541.1	550.3	499.6	421.2	376.6	356.7	356.7
47.5°	4375.1	3591.1	1540.4	574.9	459.6	481.2	436.6	390.5	352.0	336.7	333.6
50°	4694.9	3774.0	1420.5	465.8	392.0	413.5	408.9	372.0	341.3	322.8	324.4
52.5°	4894.7	3803.3	1268.3	381.2	342.8	367.4	382.8	349.0	315.1	304.4	301.3
55°	4650.3	3426.6	983.9	313.6	290.5	322.8	352.0	313.6	287.5	269.0	267.5
56°	4321.3	3063.8	822.4	289.0	275.2	310.5	341.3	299.8	270.6	259.8	252.1
57.5°	3658.7	2507.3	607.2	256.7	255.2	289.0	324.4	285.9	252.1	242.9	242.9
60°	2281.3	1411.2	367.4	215.2	221.4	256.7	292.1	255.2	224.4	224.4	229.1
62.5°	1039.2	587.2	222.9	182.9	190.6	221.4	259.8	230.6	213.7	230.6	233.7
65°	353.6	253.7	161.4	146.0	150.7	182.9	222.9	233.7	232.1	242.9	249.0
67.5°	198.3	163.0	135.3	121.4	118.4	135.3	182.9	233.7	224.4	219.8	222.9
70°	167.6	138.4	119.9	107.6	103.0	109.1	141.4	176.8	158.3	153.7	150.7
72.5°	135.3	115.3	104.5	96.8	83.0	70.7	64.6	67.6	75.3	79.9	87.6
75°	95.3	87.6	87.6	78.4	60.0	44.6	35.4	29.2	20.0	13.8	15.4
77.5°	53.8	53.8	55.3	47.7	38.4	29.2	21.5	15.4	7.7	3.1	1.5
80°	36.9	40.0	43.0	38.4	32.3	26.1	18.4	10.8	4.6	0.0	0.0
82.5°	36.9	41.5	44.6	38.4	32.3	24.6	18.4	10.8	4.6	1.5	0.0
85°	7.7	9.2	10.8	12.3	18.4	18.4	13.8	9.2	4.6	1.5	0.0
87.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	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)