

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: P949150

Luminaire Tested: **GALN-SB4A-727-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949150
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4A-727-U-T2U-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12744 lumens
Efficiency: N/A
Efficacy: 111.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 114
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

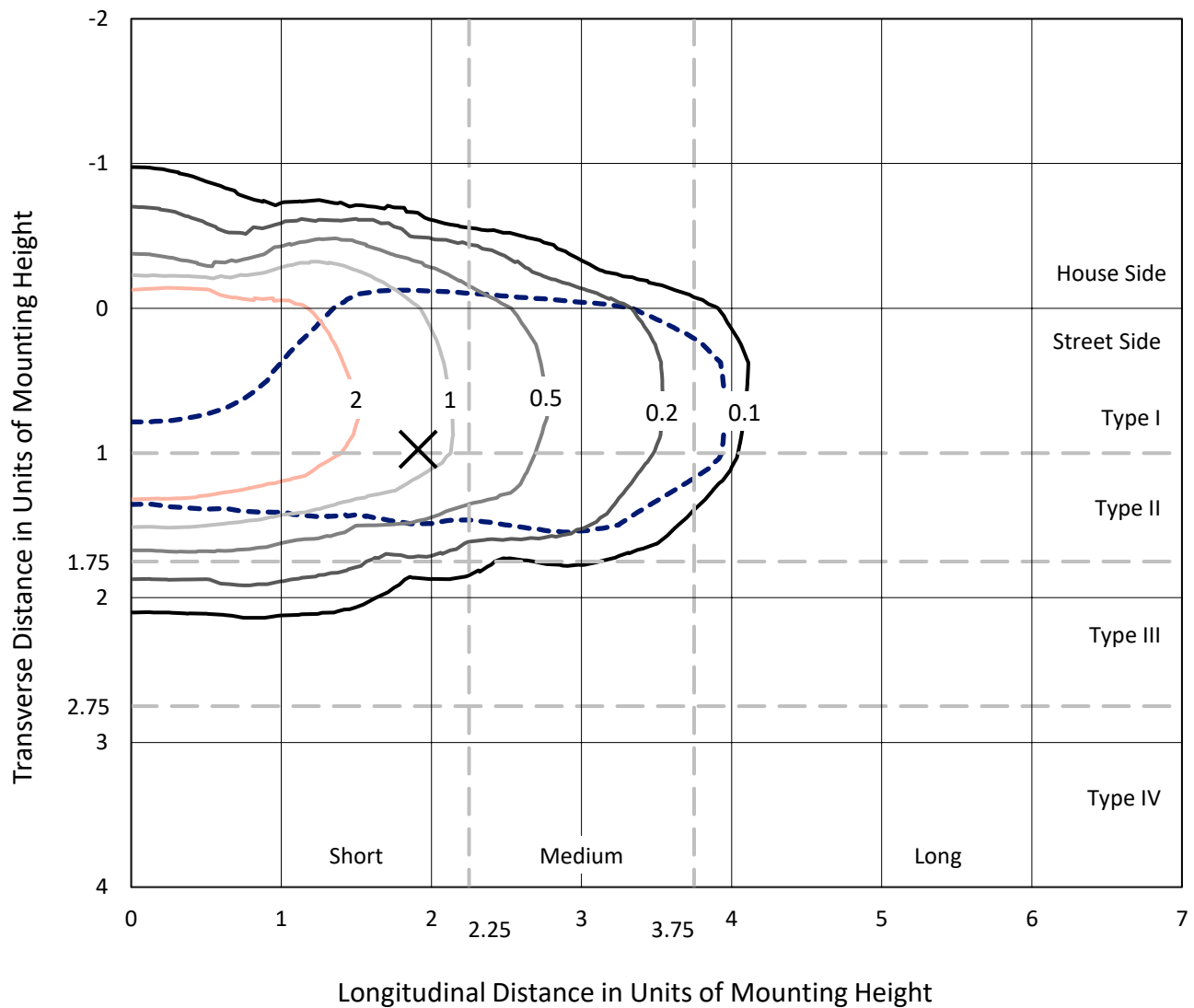


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Iso-Footcandle Lines of Horizontal Illumination

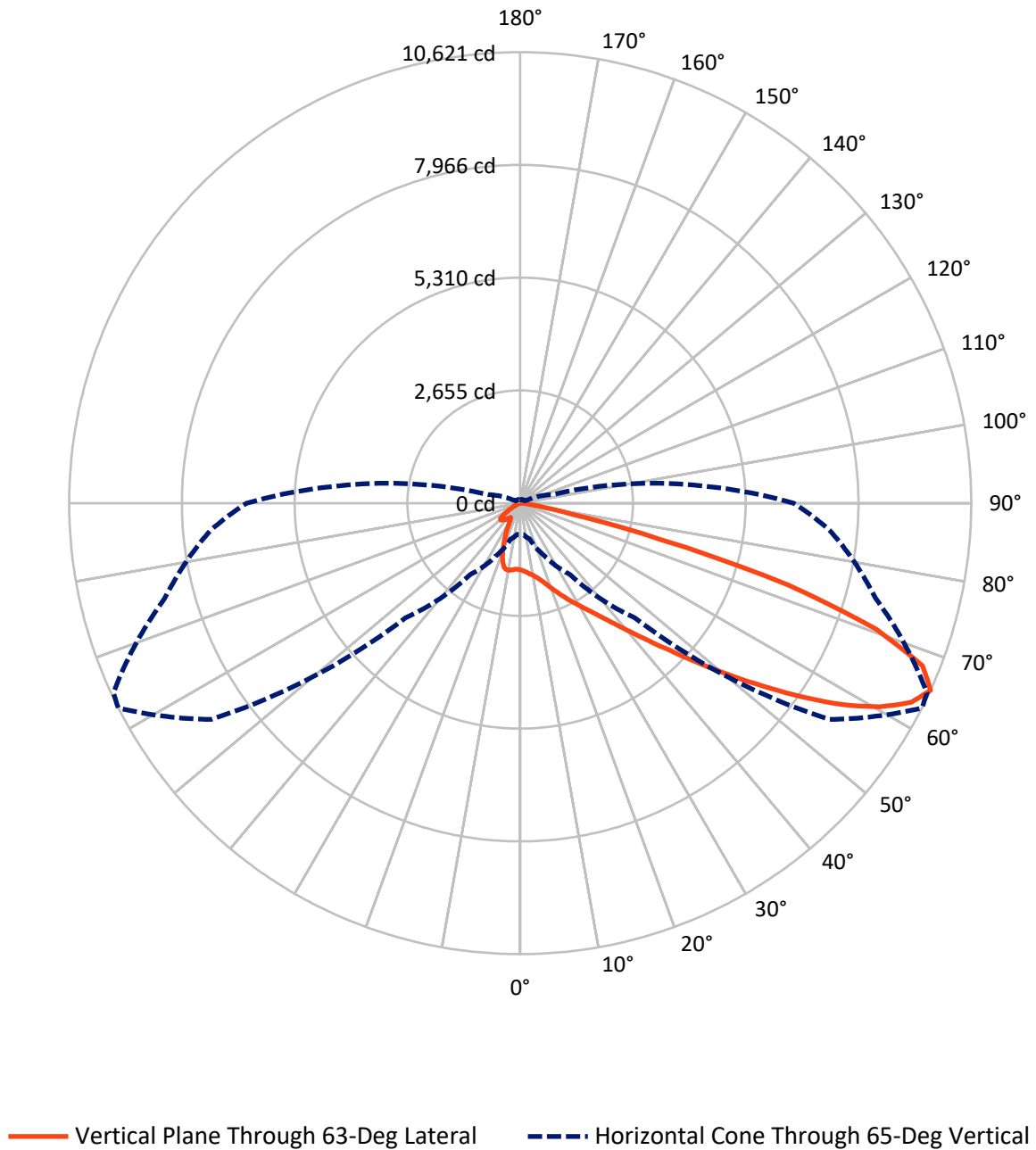
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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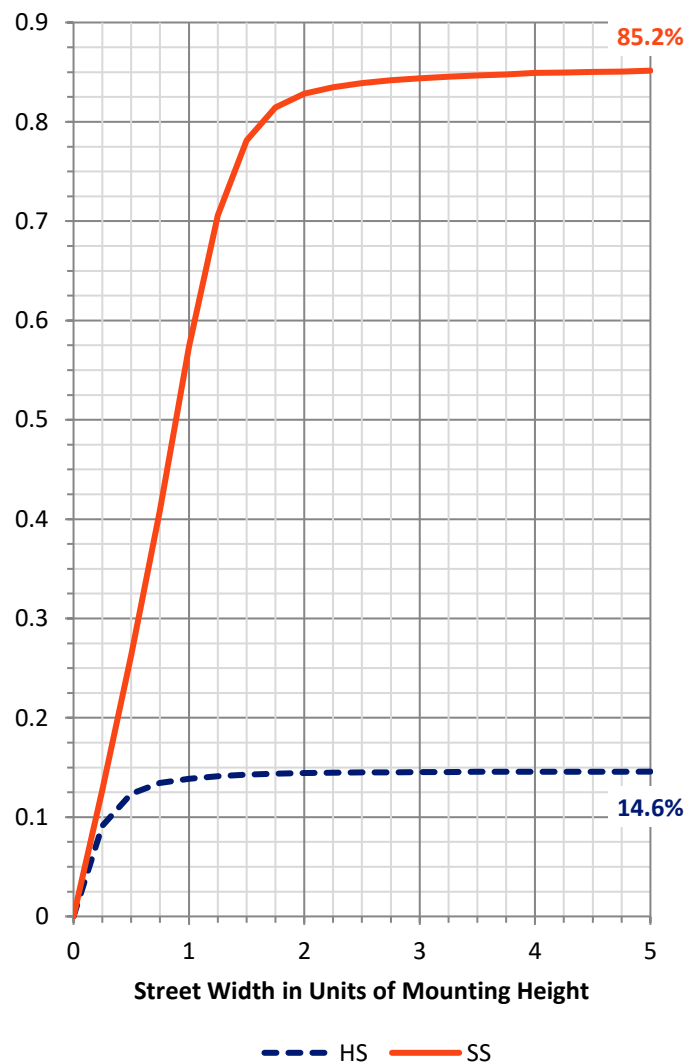
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1873.3	0.0	1873.3
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	10870.7	0.0	10870.7
	% Fixture	85.3	0.0	85.3
Total	Lumens	12744.0	0.0	12744.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.2	1.2
10°-20°	411.2	3.2
20°-30°	716.0	5.6
30°-40°	1290.5	10.1
40°-50°	2559.4	20.1
50°-60°	3486.3	27.4
60°-70°	2782.7	21.8
70°-80°	1259.3	9.9
80°-90°	90.5	0.7
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°	12744.0	100.0
0°-180°	12744.0	100.0

Coefficient of Utilization



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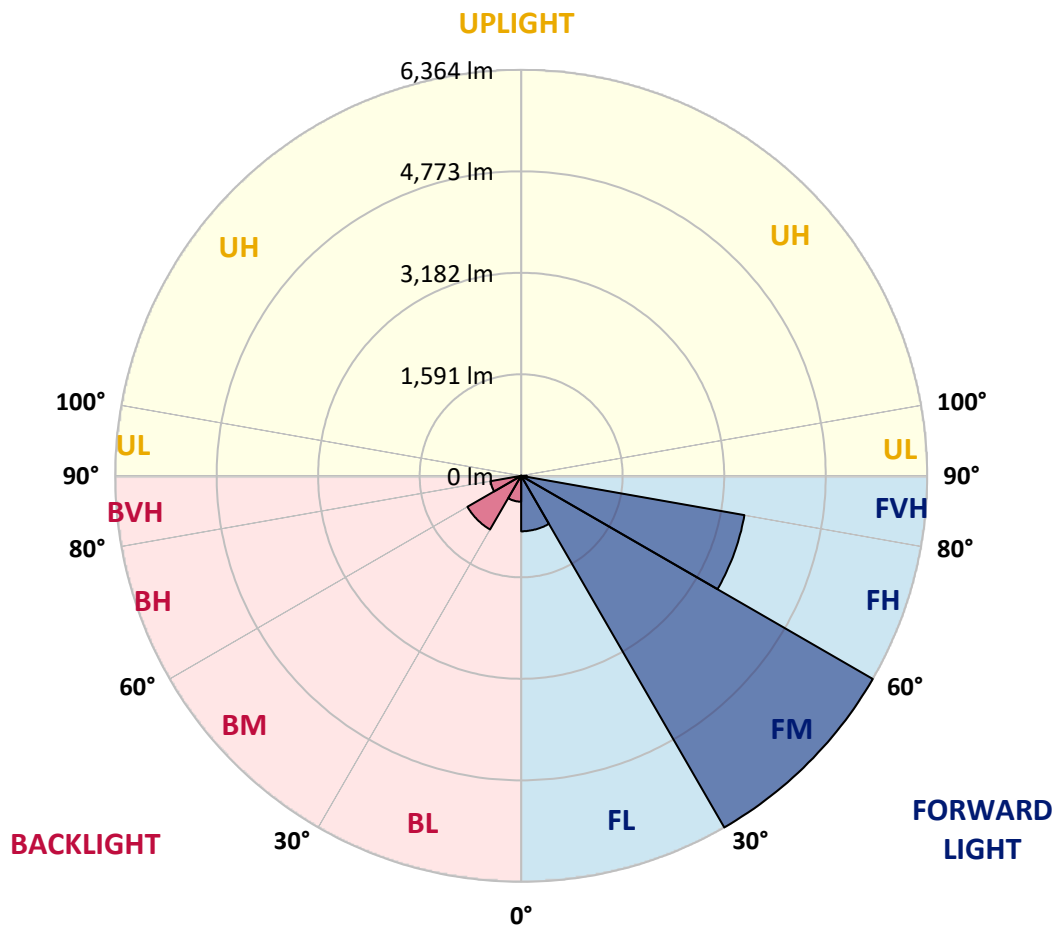
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	869.9	6.8			
FM	(30°-60°)	6364.0	49.9			
FH	(60°-80°)	3553.0	27.9			G2/5000
FVH	(80°-90°)	83.8	0.7			G1/100
BL	(0°-30°)	405.4	3.2	B1/500		
BM	(30°-60°)	972.1	7.6	B1/1000		
BH	(60°-80°)	489.0	3.8	B1/500		G1/500
BVH	(80°-90°)	6.7	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	1572.9	1572.9	1572.9	1572.9	1572.9	1572.9	1572.9	1572.9	1572.9	1572.9	1572.9
2.5°	1609.7	1605.3	1611.4	1608.8	1607.0	1603.5	1601.8	1600.0	1596.5	1593.9	1583.4
5°	1614.1	1611.4	1617.6	1622.8	1628.1	1633.3	1636.0	1639.5	1636.0	1629.0	1618.4
7.5°	1577.2	1575.5	1588.6	1604.4	1628.1	1648.2	1670.2	1682.4	1683.3	1680.7	1669.3
10°	1574.6	1570.2	1583.4	1602.7	1633.3	1669.3	1707.9	1734.2	1737.7	1749.1	1736.8
12.5°	1615.8	1611.4	1629.8	1650.9	1682.4	1720.1	1767.5	1804.3	1809.6	1825.3	1816.6
15°	1685.1	1678.9	1700.0	1727.2	1767.5	1810.4	1860.4	1893.7	1898.1	1917.4	1901.6
17.5°	1765.7	1759.6	1784.1	1813.1	1856.9	1915.7	1973.5	2010.3	2015.6	2027.9	1998.9
20°	1869.2	1861.3	1880.6	1906.9	1953.4	2023.5	2092.8	2145.4	2144.5	2144.5	2097.1
22.5°	1989.3	1977.0	1993.7	2014.7	2058.6	2143.6	2235.7	2297.9	2297.9	2273.4	2195.3
25°	2118.2	2105.9	2124.3	2143.6	2182.2	2278.6	2386.5	2463.6	2467.1	2425.0	2300.5
27.5°	2279.5	2263.7	2277.7	2300.5	2323.3	2421.5	2549.5	2639.0	2640.7	2575.8	2400.5
30°	2589.9	2545.1	2501.3	2476.8	2487.3	2584.6	2721.4	2820.4	2829.2	2739.8	2509.2
32.5°	3158.0	3149.2	2994.9	2793.3	2688.0	2759.9	2913.4	3032.6	3037.9	2923.0	2650.3
35°	4040.8	4030.3	3782.2	3398.2	3055.4	2994.9	3146.6	3287.7	3284.2	3154.5	2833.6
37.5°	5094.7	5085.0	4758.0	4244.2	3689.3	3350.0	3447.3	3595.5	3617.4	3447.3	3070.3
40°	5995.1	5959.1	5752.2	5256.9	4530.9	3939.1	3875.1	3973.3	3996.1	3794.5	3371.0
42.5°	6677.2	6646.5	6541.3	6231.8	5549.7	4810.6	4379.3	4417.0	4442.4	4200.4	3716.5
45°	7030.5	7023.5	7065.6	7036.6	6587.7	5880.2	5099.9	4943.0	4952.6	4650.2	4108.3
47.5°	7080.5	7077.0	7269.0	7540.7	7480.2	7086.6	6024.9	5598.8	5564.6	5157.8	4534.4
50°	6785.9	6778.9	7147.1	7656.5	8076.4	8100.1	7075.2	6337.9	6262.5	5683.0	4978.9
52.5°	5845.1	5843.4	6448.3	7296.1	8286.0	8987.3	8113.2	7149.7	7023.5	6238.8	5448.9
55°	4497.6	4530.1	5223.5	6225.6	7903.7	9414.3	9045.2	8051.0	7857.2	6798.2	5882.0
57.5°	3186.0	3233.4	3919.0	4811.5	6718.4	9161.8	9675.6	8954.0	8745.4	7355.7	6321.2
60°	1711.4	1753.5	2439.9	3505.2	4998.2	8220.2	10007.9	9737.8	9540.6	7885.3	6717.5
62.5°	1019.6	1033.7	1317.7	2262.8	3380.7	6280.0	9866.7	10334.9	10172.7	8329.8	7062.0
65°	732.1	734.7	877.6	1381.7	2052.4	3815.5	8876.9	10620.7	10570.7	8664.7	7317.2
67.5°	616.3	614.6	674.2	917.9	1398.4	1911.3	6803.4	10216.5	10428.7	8876.9	7461.8
70°	528.7	531.3	601.4	672.5	1051.2	1081.9	3382.4	8895.3	9347.7	8933.0	7453.1
72.5°	393.7	402.4	467.3	612.8	793.4	744.3	1167.8	6595.6	7413.6	8416.6	7066.4
75°	277.9	282.3	328.8	515.5	591.8	541.8	596.2	3409.6	4458.2	6452.7	5783.8
77.5°	213.9	221.8	249.0	360.3	583.0	380.5	364.7	1180.1	1813.1	3897.9	3965.4
80°	115.7	129.8	179.7	260.4	409.4	269.2	180.6	469.9	614.6	1822.7	1529.0
82.5°	59.6	66.6	125.4	187.6	233.2	235.0	89.4	195.5	253.4	562.9	209.5
85°	23.7	28.9	84.2	103.5	120.1	115.7	40.3	78.9	91.2	156.1	64.0
87.5°	5.3	8.8	30.7	23.7	22.8	24.5	9.6	18.4	17.5	18.4	11.4
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°	1572.9	1572.9	1572.9	1572.9	1572.9	1572.9	1572.9	1572.9	1572.9	1572.9	1572.9
2.5°	1582.5	1579.0	1569.3	1558.8	1546.5	1539.5	1535.2	1534.3	1528.1	1523.8	1528.1
5°	1608.8	1605.3	1586.9	1565.0	1541.3	1522.9	1505.3	1489.6	1466.8	1462.4	1460.6
7.5°	1661.4	1651.8	1621.9	1592.1	1547.4	1493.9	1429.1	1354.5	1287.9	1267.7	1258.1
10°	1726.3	1713.1	1675.4	1622.8	1523.8	1378.2	1221.3	1075.7	960.0	927.6	915.3
12.5°	1799.9	1788.5	1738.6	1641.2	1424.7	1160.8	920.6	740.0	627.7	599.7	591.8
15°	1887.6	1870.9	1801.7	1613.2	1247.6	882.0	632.1	525.2	484.8	479.6	474.3
17.5°	1980.5	1953.4	1857.8	1512.4	1009.1	626.9	488.3	457.7	440.1	434.9	432.2
20°	2065.6	2030.5	1891.1	1359.8	754.0	488.3	437.5	417.3	401.5	395.4	391.9
22.5°	2150.6	2100.6	1891.1	1152.0	565.5	433.1	401.5	383.1	364.7	356.8	352.4
25°	2239.2	2172.5	1857.8	920.6	455.0	397.2	367.3	347.2	331.4	321.8	318.3
27.5°	2325.1	2233.0	1781.5	701.4	405.0	365.6	335.8	316.5	301.6	294.6	294.6
30°	2406.6	2292.6	1674.6	532.2	372.6	334.9	306.9	290.2	275.3	268.3	269.2
32.5°	2517.1	2368.0	1560.6	436.6	344.6	306.0	280.6	264.8	251.6	246.4	246.4
35°	2670.5	2479.4	1462.4	428.7	320.9	282.3	256.9	242.0	228.8	224.4	224.4
37.5°	2887.9	2659.1	1410.7	481.3	301.6	261.3	237.6	221.8	209.5	206.0	205.2
40°	3156.2	2902.8	1438.7	533.9	288.4	242.9	220.1	204.3	193.8	189.4	188.5
42.5°	3474.5	3203.6	1593.9	574.3	279.7	227.1	203.4	185.9	178.9	177.1	177.1
45°	3840.1	3534.1	1831.5	617.2	265.6	212.2	186.7	173.6	168.3	167.5	166.6
47.5°	4255.6	3897.1	2106.8	670.7	251.6	198.1	173.6	164.8	160.4	158.7	158.7
50°	4667.7	4262.7	2390.0	700.5	240.2	185.0	163.1	156.1	152.6	151.7	151.7
52.5°	5099.1	4638.8	2618.8	672.5	230.6	174.5	154.3	149.0	145.5	144.7	144.7
55°	5510.2	4943.0	2658.2	570.8	211.3	163.9	144.7	142.0	137.6	137.6	136.8
57.5°	5864.4	5095.5	2379.4	419.1	192.0	148.2	135.0	132.4	128.9	128.0	127.1
60°	6189.7	5051.7	1836.7	282.3	171.0	132.4	122.7	121.0	117.5	113.1	112.2
62.5°	6372.9	4858.8	1256.4	184.1	149.9	115.7	108.7	107.8	99.9	91.2	89.4
65°	6442.2	4462.5	783.8	134.1	125.4	99.1	93.8	92.1	80.7	71.0	70.1
67.5°	6381.7	3810.3	395.4	106.1	99.1	82.4	77.2	77.2	69.3	60.5	59.6
70°	6139.7	2856.4	166.6	85.0	76.3	63.1	63.1	66.6	58.7	49.1	48.2
72.5°	5614.6	1921.8	88.5	64.9	57.0	44.7	51.7	54.4	46.5	36.8	36.8
75°	4463.4	1172.2	61.4	48.2	35.9	31.6	39.5	41.2	31.6	24.5	23.7
77.5°	3052.8	673.3	41.2	30.7	22.8	18.4	27.2	25.4	16.7	11.4	12.3
80°	1340.5	280.6	23.7	14.0	8.8	7.0	9.6	7.0	5.3	3.5	3.5
82.5°	156.9	65.8	8.8	5.3	3.5	1.8	0.9	0.0	0.0	0.0	0.0
85°	32.4	7.9	4.4	1.8	0.9	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.1	1.8	0.9	0.0	0.0	0.0	0.0	0.0	0.0	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)