

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: P947008

Luminaire Tested: **GALN-SB2C-727-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947008
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-SB2C-727-U-T2U-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 2700K, 615mA 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: 10617 lumens
Efficiency: N/A
Efficacy: 105.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 100.9
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

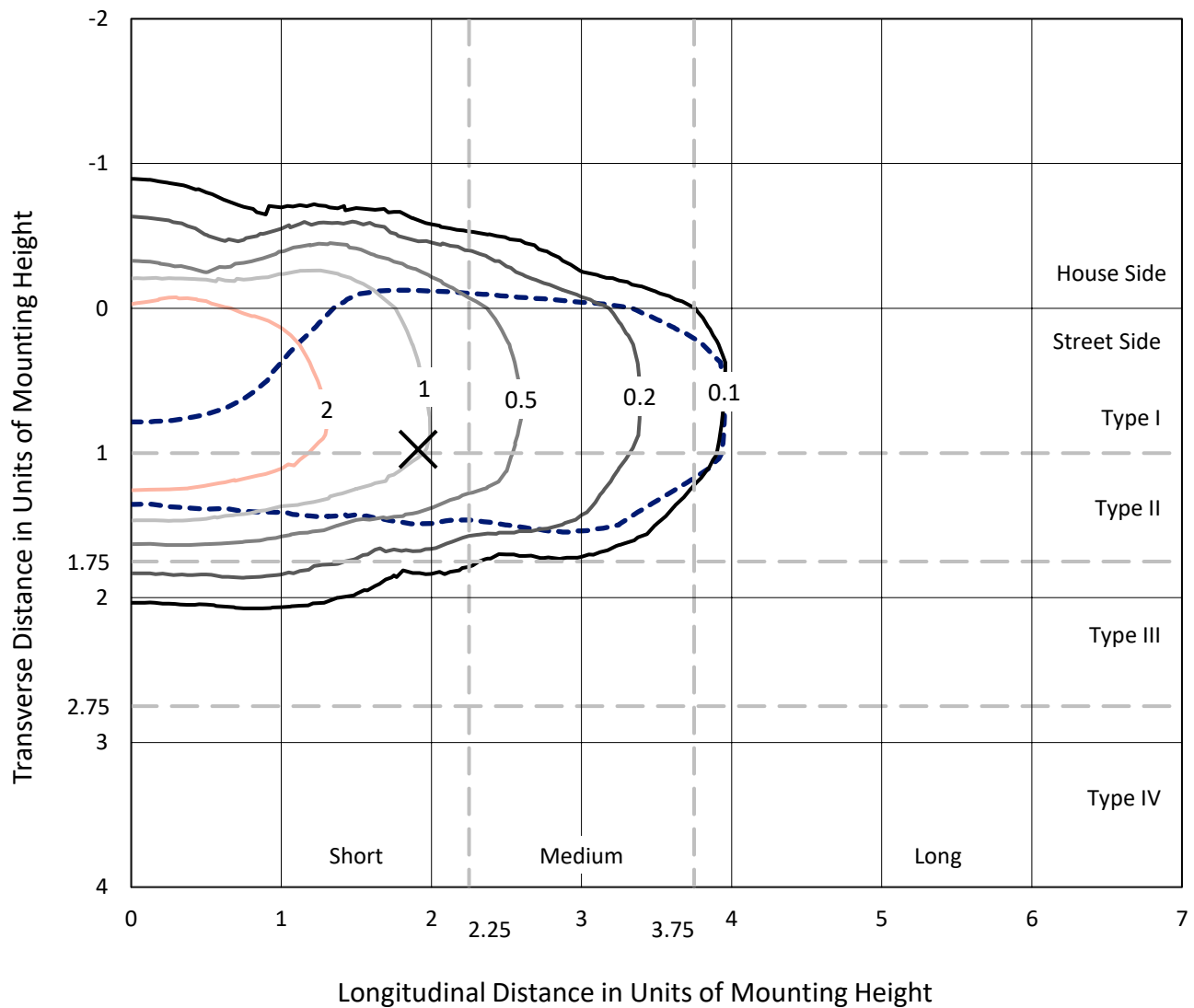


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Iso-Footcandle Lines of Horizontal Illumination

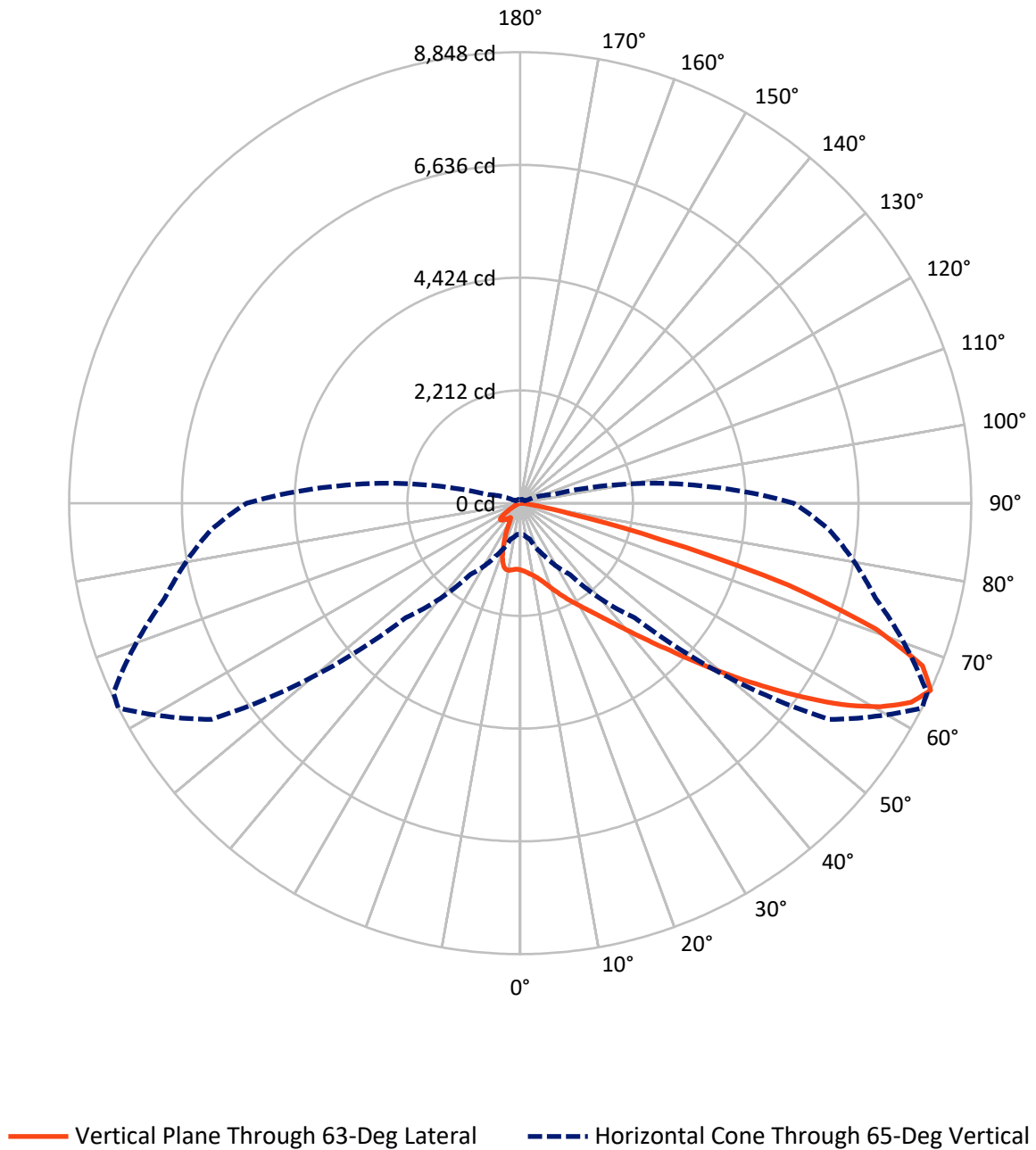
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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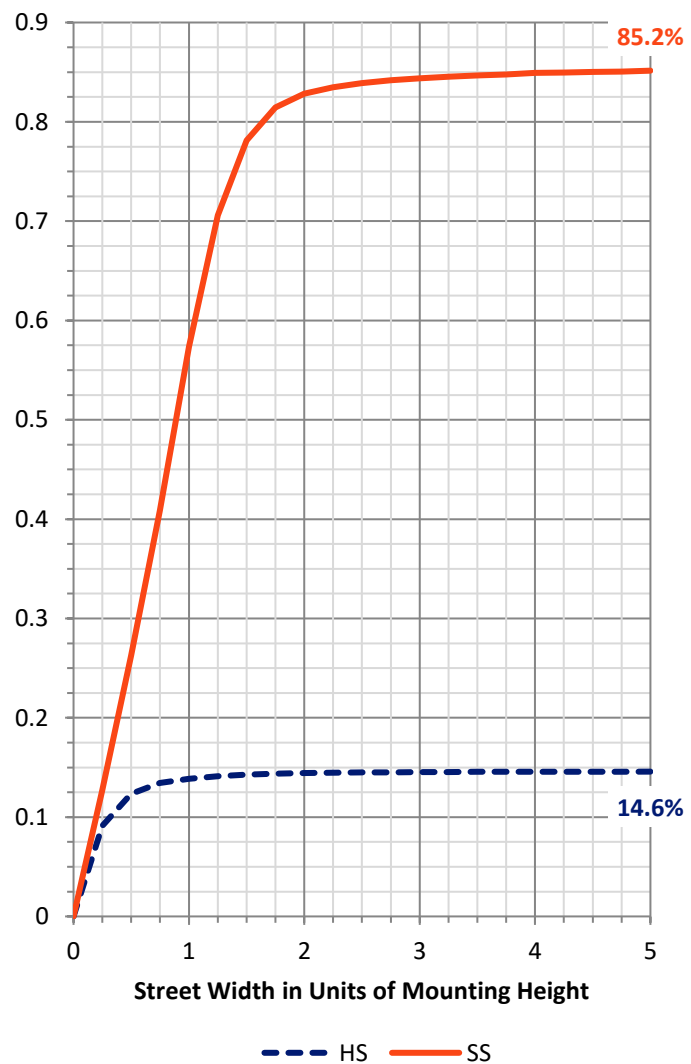
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1560.6	0.0	1560.6
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	9056.4	0.0	9056.4
	% Fixture	85.3	0.0	85.3
Total	Lumens	10617.0	0.0	10617.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.5	1.2
10°-20°	342.6	3.2
20°-30°	596.5	5.6
30°-40°	1075.1	10.1
40°-50°	2132.2	20.1
50°-60°	2904.4	27.4
60°-70°	2318.3	21.8
70°-80°	1049.1	9.9
80°-90°	75.4	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°	10617.0	100.0
0°-180°	10617.0	100.0

Coefficient of Utilization



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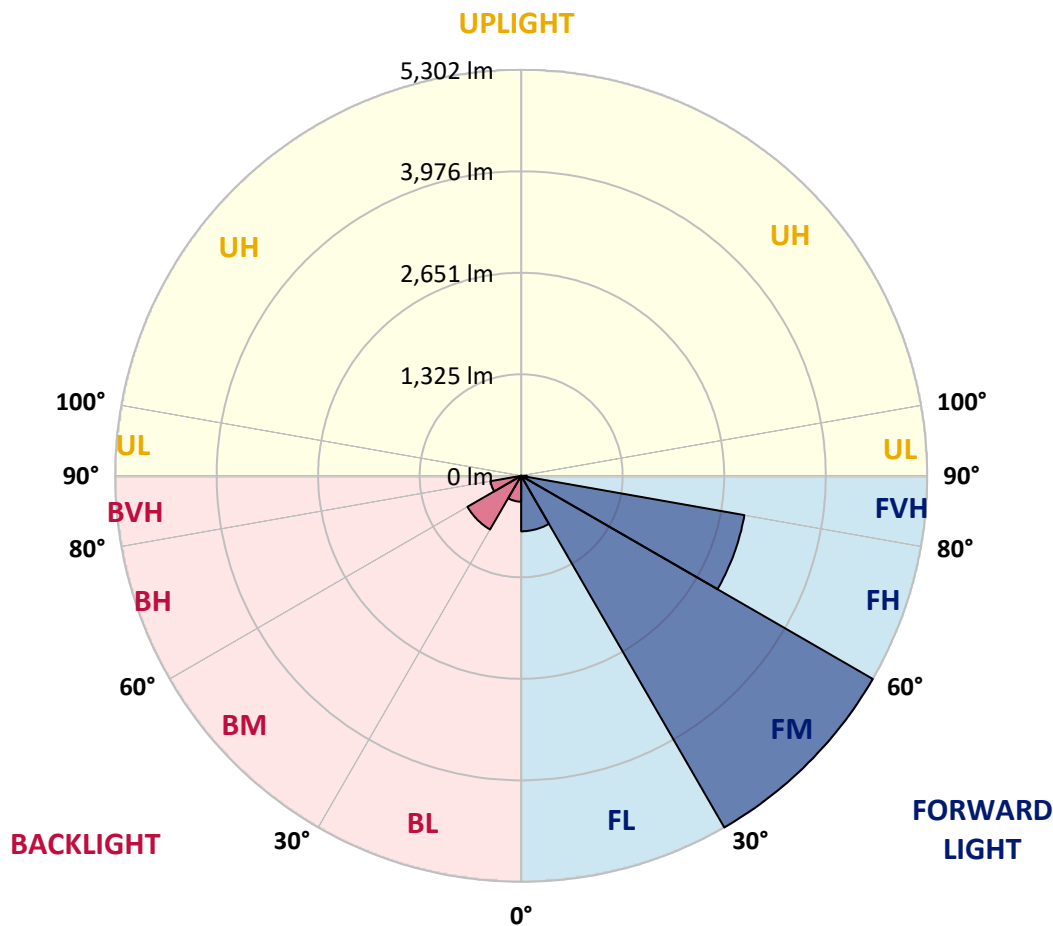
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	724.7	6.8			
FM	(30°-60°)	5301.9	49.9			
FH	(60°-80°)	2960.0	27.9			G2/5000
FVH	(80°-90°)	69.8	0.7			G1/100
BL	(0°-30°)	337.7	3.2	B1/500		
BM	(30°-60°)	809.9	7.6	B1/1000		
BH	(60°-80°)	407.4	3.8	B1/500		G1/500
BVH	(80°-90°)	5.6	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°	1310.3	1310.3	1310.3	1310.3	1310.3	1310.3	1310.3	1310.3	1310.3	1310.3	1310.3
2.5°	1341.0	1337.4	1342.5	1340.3	1338.8	1335.9	1334.4	1333.0	1330.1	1327.9	1319.1
5°	1344.7	1342.5	1347.6	1352.0	1356.4	1360.7	1362.9	1365.8	1362.9	1357.1	1348.3
7.5°	1314.0	1312.5	1323.5	1336.6	1356.4	1373.2	1391.4	1401.6	1402.4	1400.2	1390.7
10°	1311.8	1308.1	1319.1	1335.2	1360.7	1390.7	1422.8	1444.7	1447.7	1457.1	1446.9
12.5°	1346.1	1342.5	1357.8	1375.3	1401.6	1433.0	1472.5	1503.2	1507.5	1520.7	1513.4
15°	1403.8	1398.7	1416.2	1438.9	1472.5	1508.3	1549.9	1577.7	1581.3	1597.4	1584.2
17.5°	1471.0	1465.9	1486.4	1510.5	1547.0	1595.9	1644.1	1674.8	1679.2	1689.4	1665.3
20°	1557.2	1550.6	1566.7	1588.6	1627.3	1685.8	1743.5	1787.3	1786.6	1786.6	1747.1
22.5°	1657.3	1647.1	1660.9	1678.5	1715.0	1785.8	1862.5	1914.4	1914.4	1893.9	1828.9
25°	1764.6	1754.4	1769.8	1785.8	1818.0	1898.3	1988.2	2052.4	2055.3	2020.3	1916.6
27.5°	1899.0	1885.9	1897.6	1916.6	1935.6	2017.4	2124.0	2198.5	2200.0	2145.9	1999.8
30°	2157.6	2120.4	2083.8	2063.4	2072.1	2153.2	2267.2	2349.7	2357.0	2282.5	2090.4
32.5°	2630.9	2623.6	2495.0	2327.1	2239.4	2299.3	2427.1	2526.5	2530.8	2435.2	2208.0
35°	3366.4	3357.7	3150.9	2831.0	2545.4	2495.0	2621.4	2739.0	2736.1	2628.0	2360.7
37.5°	4244.4	4236.3	3963.9	3535.9	3073.5	2790.9	2871.9	2995.4	3013.6	2871.9	2557.9
40°	4994.5	4964.5	4792.2	4379.5	3774.7	3281.7	3228.4	3310.2	3329.2	3161.2	2808.4
42.5°	5562.7	5537.2	5449.5	5191.7	4623.4	4007.7	3648.4	3679.8	3700.9	3499.3	3096.2
45°	5857.1	5851.2	5886.3	5862.2	5488.2	4898.8	4248.7	4118.0	4126.0	3874.0	3422.7
47.5°	5898.7	5895.8	6055.8	6282.2	6231.8	5903.8	5019.3	4664.3	4635.9	4296.9	3777.6
50°	5653.3	5647.5	5954.2	6378.6	6728.4	6748.2	5894.3	5280.1	5217.3	4734.5	4147.9
52.5°	4869.6	4868.1	5372.1	6078.4	6903.0	7487.3	6759.1	5956.4	5851.2	5197.5	4539.4
55°	3747.0	3774.0	4351.7	5186.6	6584.6	7843.0	7535.5	6707.3	6545.8	5663.5	4900.3
57.5°	2654.3	2693.7	3264.9	4008.4	5597.1	7632.7	8060.7	7459.6	7285.7	6128.1	5266.2
60°	1425.7	1460.8	2032.7	2920.1	4164.0	6848.2	8337.5	8112.6	7948.2	6569.2	5596.3
62.5°	849.5	861.1	1097.8	1885.2	2816.4	5231.9	8219.9	8610.0	8474.8	6939.5	5883.4
65°	609.9	612.1	731.1	1151.1	1709.9	3178.7	7395.3	8848.1	8806.4	7218.5	6095.9
67.5°	513.5	512.0	561.7	764.7	1165.0	1592.3	5667.9	8511.4	8688.1	7395.3	6216.4
70°	440.4	442.6	501.1	560.2	875.8	901.3	2817.9	7410.6	7787.5	7442.1	6209.1
72.5°	327.9	335.3	389.3	510.5	661.0	620.1	972.9	5494.8	6176.3	7011.8	5887.0
75°	231.5	235.2	273.9	429.5	493.0	451.4	496.7	2840.5	3714.1	5375.7	4818.5
77.5°	178.2	184.8	207.4	300.2	485.7	317.0	303.8	983.1	1510.5	3247.4	3303.6
80°	96.4	108.1	149.7	216.9	341.1	224.2	150.5	391.5	512.0	1518.5	1273.8
82.5°	49.7	55.5	104.4	156.3	194.3	195.7	74.5	162.9	211.1	468.9	174.6
85°	19.7	24.1	70.1	86.2	100.1	96.4	33.6	65.7	76.0	130.0	53.3
87.5°	4.4	7.3	25.6	19.7	19.0	20.5	8.0	15.3	14.6	15.3	9.5
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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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1310.3	1310.3	1310.3	1310.3	1310.3	1310.3	1310.3	1310.3	1310.3	1310.3	1310.3
2.5°	1318.4	1315.5	1307.4	1298.7	1288.4	1282.6	1278.9	1278.2	1273.1	1269.4	1273.1
5°	1340.3	1337.4	1322.0	1303.8	1284.0	1268.7	1254.1	1241.0	1222.0	1218.3	1216.8
7.5°	1384.1	1376.1	1351.2	1326.4	1289.2	1244.6	1190.6	1128.5	1073.0	1056.2	1048.1
10°	1438.2	1427.2	1395.8	1352.0	1269.4	1148.2	1017.4	896.2	799.8	772.8	762.5
12.5°	1499.5	1490.0	1448.4	1367.3	1186.9	967.1	766.9	616.5	523.0	499.6	493.0
15°	1572.6	1558.7	1501.0	1343.9	1039.4	734.8	526.6	437.5	403.9	399.5	395.1
17.5°	1650.0	1627.3	1547.7	1259.9	840.7	522.2	406.8	381.3	366.7	362.3	360.1
20°	1720.8	1691.6	1575.5	1132.9	628.1	406.8	364.5	347.7	334.5	329.4	326.5
22.5°	1791.7	1750.0	1575.5	959.7	471.1	360.8	334.5	319.2	303.8	297.3	293.6
25°	1865.4	1809.9	1547.7	766.9	379.1	330.9	306.0	289.2	276.1	268.1	265.1
27.5°	1937.0	1860.3	1484.2	584.3	337.4	304.6	279.7	263.7	251.3	245.4	245.4
30°	2004.9	1910.0	1395.1	443.4	310.4	279.0	255.6	241.8	229.3	223.5	224.2
32.5°	2097.0	1972.8	1300.1	363.7	287.0	254.9	233.7	220.6	209.6	205.2	205.2
35°	2224.8	2065.6	1218.3	357.2	267.3	235.2	214.0	201.6	190.6	187.0	187.0
37.5°	2405.9	2215.3	1175.2	401.0	251.3	217.7	197.9	184.8	174.6	171.6	170.9
40°	2629.4	2418.4	1198.6	444.8	240.3	202.3	183.3	170.2	161.4	157.8	157.0
42.5°	2894.6	2668.9	1327.9	478.4	233.0	189.2	169.5	154.8	149.0	147.5	147.5
45°	3199.2	2944.2	1525.8	514.2	221.3	176.8	155.6	144.6	140.2	139.5	138.8
47.5°	3545.4	3246.6	1755.2	558.8	209.6	165.1	144.6	137.3	133.7	132.2	132.2
50°	3888.7	3551.2	1991.1	583.6	200.1	154.1	135.9	130.0	127.1	126.4	126.4
52.5°	4248.0	3864.5	2181.7	560.2	192.1	145.3	128.6	124.2	121.2	120.5	120.5
55°	4590.6	4118.0	2214.6	475.5	176.0	136.6	120.5	118.3	114.7	114.7	113.9
57.5°	4885.6	4245.1	1982.3	349.1	160.0	123.4	112.5	110.3	107.4	106.6	105.9
60°	5156.6	4208.6	1530.2	235.2	142.4	110.3	102.3	100.8	97.9	94.2	93.5
62.5°	5309.3	4047.9	1046.7	153.4	124.9	96.4	90.6	89.8	83.3	76.0	74.5
65°	5367.0	3717.7	653.0	111.8	104.4	82.5	78.2	76.7	67.2	59.2	58.4
67.5°	5316.6	3174.3	329.4	88.4	82.5	68.7	64.3	64.3	57.7	50.4	49.7
70°	5115.0	2379.6	138.8	70.8	63.5	52.6	52.6	55.5	48.9	40.9	40.2
72.5°	4677.5	1601.0	73.8	54.0	47.5	37.3	43.1	45.3	38.7	30.7	30.7
75°	3718.5	976.5	51.1	40.2	29.9	26.3	32.9	34.3	26.3	20.5	19.7
77.5°	2543.3	560.9	34.3	25.6	19.0	15.3	22.6	21.2	13.9	9.5	10.2
80°	1116.8	233.7	19.7	11.7	7.3	5.8	8.0	5.8	4.4	2.9	2.9
82.5°	130.7	54.8	7.3	4.4	2.9	1.5	0.7	0.0	0.0	0.0	0.0
85°	27.0	6.6	3.7	1.5	0.7	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.1	1.5	0.7	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)