

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: P949129

Luminaire Tested: **GALN-SB4A-722-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949129
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-722-U-T2U-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 2200K, 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: 11350 lumens
Efficiency: N/A
Efficacy: 99.6 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

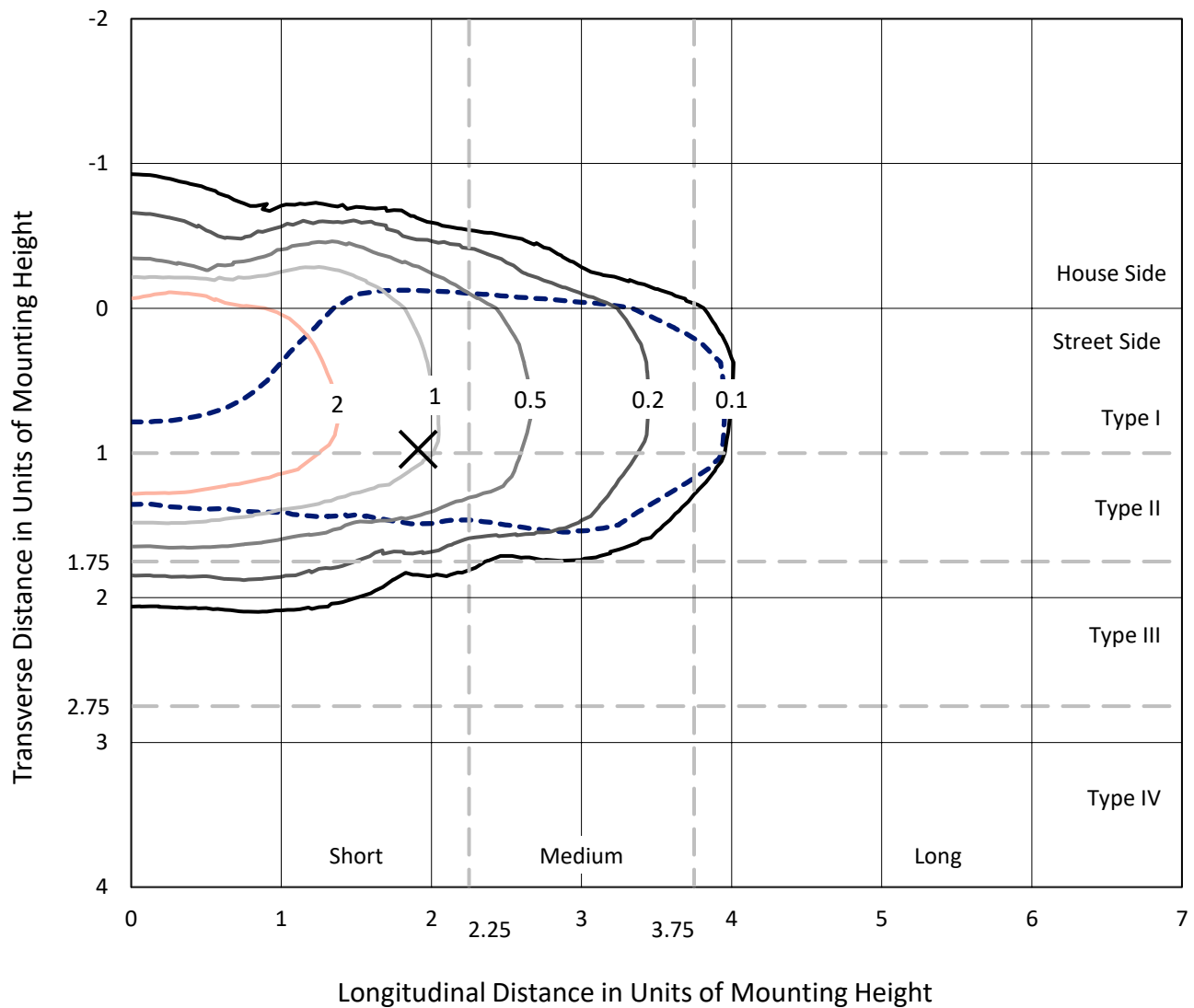


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Iso-Footcandle Lines of Horizontal Illumination

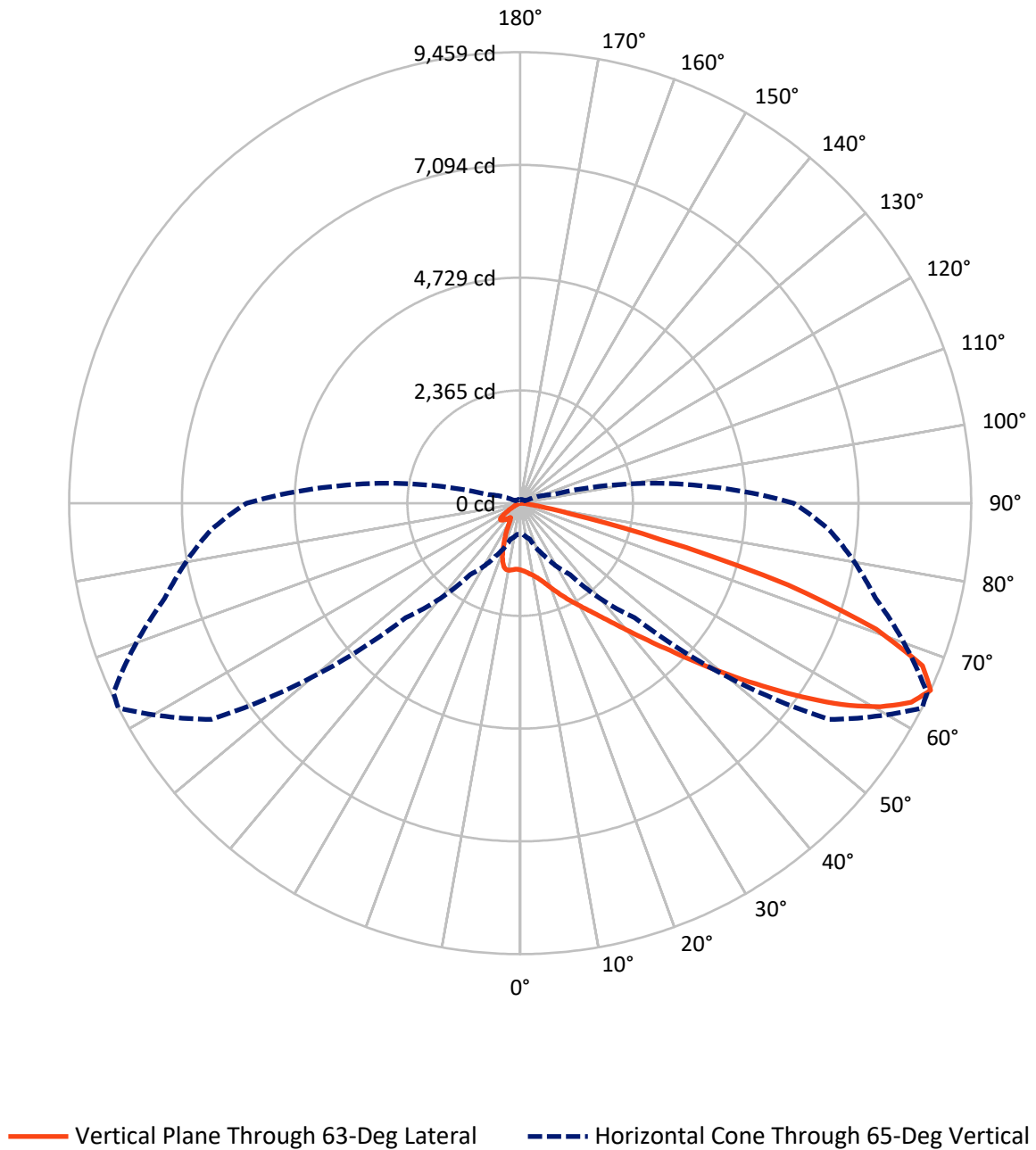
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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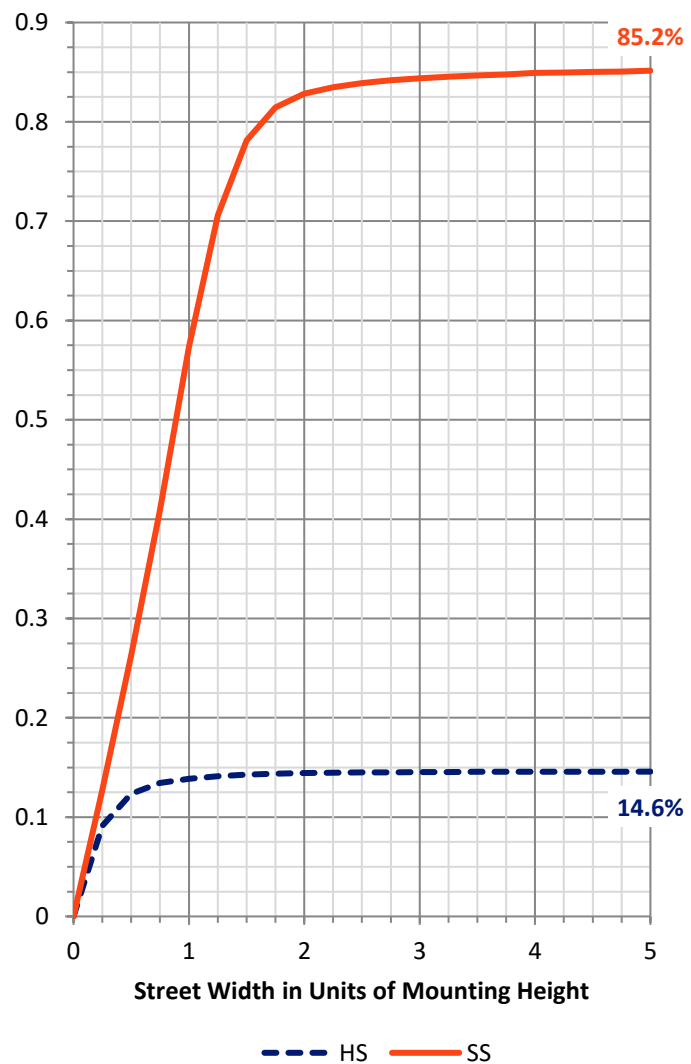
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1668.4	0.0	1668.4
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	9681.6	0.0	9681.6
	% Fixture	85.3	0.0	85.3
Total	Lumens	11350.0	0.0	11350.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.0	1.2
10°-20°	366.2	3.2
20°-30°	637.7	5.6
30°-40°	1149.3	10.1
40°-50°	2279.4	20.1
50°-60°	3105.0	27.4
60°-70°	2478.4	21.8
70°-80°	1121.5	9.9
80°-90°	80.6	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°	11350.0	100.0
0°-180°	11350.0	100.0

Coefficient of Utilization



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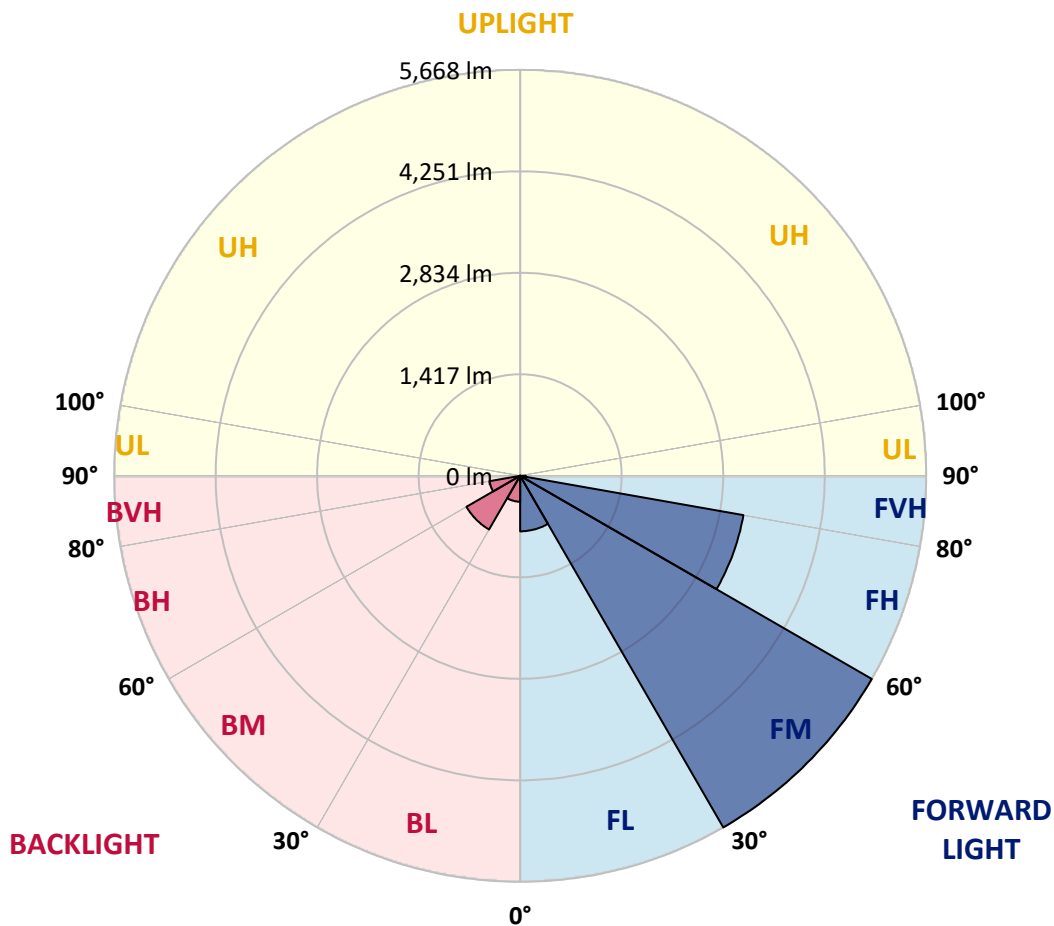
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	774.8	6.8			
FM	(30°-60°)	5667.9	49.9			
FH	(60°-80°)	3164.3	27.9			G2/5000
FVH	(80°-90°)	74.6	0.7			G1/100
BL	(0°-30°)	361.1	3.2	B1/500		
BM	(30°-60°)	865.8	7.6	B1/1000		
BH	(60°-80°)	435.5	3.8	B1/500		G1/500
BVH	(80°-90°)	6.0	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°	1400.8	1400.8	1400.8	1400.8	1400.8	1400.8	1400.8	1400.8	1400.8	1400.8	1400.8
2.5°	1433.6	1429.7	1435.2	1432.8	1431.3	1428.1	1426.6	1425.0	1421.9	1419.5	1410.2
5°	1437.5	1435.2	1440.6	1445.3	1450.0	1454.7	1457.0	1460.1	1457.0	1450.8	1441.4
7.5°	1404.7	1403.1	1414.9	1428.9	1450.0	1468.0	1487.5	1498.4	1499.2	1496.8	1486.7
10°	1402.4	1398.5	1410.2	1427.4	1454.7	1486.7	1521.1	1544.5	1547.6	1557.8	1546.8
12.5°	1439.1	1435.2	1451.6	1470.3	1498.4	1532.0	1574.1	1606.9	1611.6	1625.7	1617.9
15°	1500.8	1495.3	1514.0	1538.2	1574.1	1612.4	1656.9	1686.6	1690.5	1707.7	1693.6
17.5°	1572.6	1567.1	1589.0	1614.8	1653.8	1706.1	1757.6	1790.4	1795.1	1806.1	1780.3
20°	1664.7	1657.7	1674.9	1698.3	1739.7	1802.1	1863.8	1910.7	1909.9	1909.9	1867.7
22.5°	1771.7	1760.8	1775.6	1794.3	1833.4	1909.1	1991.1	2046.5	2046.5	2024.7	1955.2
25°	1886.5	1875.5	1891.9	1909.1	1943.5	2029.4	2125.4	2194.1	2197.2	2159.8	2048.9
27.5°	2030.2	2016.1	2028.6	2048.9	2069.2	2156.6	2270.6	2350.3	2351.9	2294.1	2137.9
30°	2306.6	2266.7	2227.7	2205.8	2215.2	2301.9	2423.7	2511.9	2519.7	2440.1	2234.7
32.5°	2812.5	2804.7	2667.3	2487.7	2394.0	2458.0	2594.7	2700.9	2705.6	2603.3	2360.4
35°	3598.8	3589.5	3368.5	3026.5	2721.2	2667.3	2802.4	2928.1	2925.0	2809.4	2523.6
37.5°	4537.4	4528.8	4237.6	3780.0	3285.7	2983.5	3070.2	3202.2	3221.7	3070.2	2734.5
40°	5339.3	5307.3	5123.0	4681.8	4035.3	3508.3	3451.3	3538.7	3559.0	3379.4	3002.3
42.5°	5946.8	5919.5	5825.8	5550.1	4942.6	4284.4	3900.2	3933.8	3956.5	3740.9	3309.9
45°	6261.5	6255.2	6292.7	6266.9	5867.1	5237.0	4542.1	4402.3	4410.9	4141.5	3659.0
47.5°	6306.0	6302.8	6473.8	6715.9	6662.0	6311.4	5365.8	4986.4	4955.9	4593.6	4038.4
50°	6043.6	6037.4	6365.3	6819.0	7193.0	7214.1	6301.3	5644.6	5577.5	5061.3	4434.3
52.5°	5205.8	5204.2	5743.0	6498.0	7379.6	8004.3	7225.8	6367.6	6255.2	5556.4	4852.8
55°	4005.6	4034.5	4652.2	5544.7	7039.2	8384.5	8055.8	7170.3	6997.8	6054.5	5238.6
57.5°	2837.5	2879.7	3490.3	4285.2	5983.5	8159.6	8617.2	7974.6	7788.8	6551.1	5629.8
60°	1524.2	1561.7	2173.0	3121.7	4451.5	7321.0	8913.1	8672.7	8497.0	7022.8	5982.7
62.5°	908.1	920.6	1173.6	2015.3	3010.9	5593.1	8787.4	9204.4	9059.9	7418.6	6289.6
65°	652.0	654.3	781.6	1230.6	1827.9	3398.2	7905.9	9458.9	9414.4	7716.9	6516.8
67.5°	548.9	547.4	600.5	817.5	1245.4	1702.2	6059.2	9099.0	9287.9	7905.9	6645.6
70°	470.8	473.2	535.6	598.9	936.2	963.5	3012.4	7922.3	8325.2	7955.9	6637.8
72.5°	350.6	358.4	416.2	545.8	706.6	662.9	1040.1	5874.2	6602.7	7495.9	6293.5
75°	247.5	251.4	292.8	459.1	527.1	482.6	531.0	3036.6	3970.5	5746.9	5151.1
77.5°	190.5	197.5	221.8	320.9	519.3	338.9	324.8	1051.0	1614.8	3471.6	3531.7
80°	103.1	115.6	160.1	231.9	364.6	239.7	160.9	418.5	547.4	1623.3	1361.8
82.5°	53.1	59.3	111.7	167.1	207.7	209.3	79.6	174.1	225.7	501.3	186.6
85°	21.1	25.8	75.0	92.1	107.0	103.1	35.9	70.3	81.2	139.0	57.0
87.5°	4.7	7.8	27.3	21.1	20.3	21.9	8.6	16.4	15.6	16.4	10.2
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°	1400.8	1400.8	1400.8	1400.8	1400.8	1400.8	1400.8	1400.8	1400.8	1400.8	1400.8
2.5°	1409.4	1406.3	1397.7	1388.3	1377.4	1371.1	1367.2	1366.4	1361.0	1357.1	1361.0
5°	1432.8	1429.7	1413.3	1393.8	1372.7	1356.3	1340.7	1326.6	1306.3	1302.4	1300.9
7.5°	1479.7	1471.1	1444.5	1418.0	1378.2	1330.5	1272.7	1206.4	1147.0	1129.1	1120.5
10°	1537.4	1525.7	1492.2	1445.3	1357.1	1227.5	1087.7	958.1	855.0	826.1	815.2
12.5°	1603.0	1592.9	1548.4	1461.7	1268.8	1033.8	819.9	659.0	559.1	534.1	527.1
15°	1681.1	1666.3	1604.6	1436.7	1111.1	785.5	563.0	467.7	431.8	427.1	422.4
17.5°	1763.9	1739.7	1654.6	1346.9	898.7	558.3	434.9	407.6	392.0	387.3	384.9
20°	1839.6	1808.4	1684.2	1211.1	671.5	434.9	389.6	371.7	357.6	352.2	349.0
22.5°	1915.4	1870.9	1684.2	1026.0	503.6	385.7	357.6	341.2	324.8	317.8	313.9
25°	1994.2	1934.9	1654.6	819.9	405.2	353.7	327.2	309.2	295.2	286.6	283.4
27.5°	2070.8	1988.8	1586.6	624.7	360.7	325.6	299.1	281.9	268.6	262.4	262.4
30°	2143.4	2041.9	1491.4	474.0	331.9	298.3	273.3	258.5	245.2	238.9	239.7
32.5°	2241.8	2109.0	1389.9	388.9	306.9	272.5	249.9	235.8	224.1	219.4	219.4
35°	2378.4	2208.2	1302.4	381.8	285.8	251.4	228.8	215.5	203.8	199.9	199.9
37.5°	2572.0	2368.2	1256.4	428.7	268.6	232.7	211.6	197.5	186.6	183.5	182.7
40°	2811.0	2585.3	1281.3	475.5	256.9	216.3	196.0	181.9	172.6	168.7	167.9
42.5°	3094.4	2853.1	1419.5	511.4	249.1	202.2	181.2	165.5	159.3	157.7	157.7
45°	3420.0	3147.5	1631.1	549.7	236.6	189.0	166.3	154.6	149.9	149.1	148.4
47.5°	3790.1	3470.8	1876.3	597.3	224.1	176.5	154.6	146.8	142.9	141.3	141.3
50°	4157.1	3796.4	2128.5	623.9	213.9	164.8	145.2	139.0	135.9	135.1	135.1
52.5°	4541.3	4131.4	2332.3	598.9	205.4	155.4	137.4	132.7	129.6	128.8	128.8
55°	4907.5	4402.3	2367.5	508.3	188.2	146.0	128.8	126.5	122.6	122.6	121.8
57.5°	5223.0	4538.2	2119.2	373.2	171.0	132.0	120.2	117.9	114.8	114.0	113.2
60°	5512.6	4499.1	1635.8	251.4	152.3	117.9	109.3	107.8	104.6	100.7	99.9
62.5°	5675.8	4327.3	1118.9	164.0	133.5	103.1	96.8	96.0	89.0	81.2	79.6
65°	5737.5	3974.4	698.1	119.5	111.7	88.2	83.5	82.0	71.8	63.2	62.5
67.5°	5683.6	3393.5	352.2	94.5	88.2	73.4	68.7	68.7	61.7	53.9	53.1
70°	5468.1	2543.9	148.4	75.7	67.9	56.2	56.2	59.3	52.3	43.7	42.9
72.5°	5000.4	1711.6	78.9	57.8	50.8	39.8	46.1	48.4	41.4	32.8	32.8
75°	3975.2	1044.0	54.7	42.9	32.0	28.1	35.1	36.7	28.1	21.9	21.1
77.5°	2718.8	599.7	36.7	27.3	20.3	16.4	24.2	22.6	14.8	10.2	10.9
80°	1193.9	249.9	21.1	12.5	7.8	6.2	8.6	6.2	4.7	3.1	3.1
82.5°	139.8	58.6	7.8	4.7	3.1	1.6	0.8	0.0	0.0	0.0	0.0
85°	28.9	7.0	3.9	1.6	0.8	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.5	1.6	0.8	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)