

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: P940754

Luminaire Tested: **GALN-SB4A-722-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940754
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)
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-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 2200K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10845 lumens
Efficiency: N/A
Efficacy: 95.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - 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

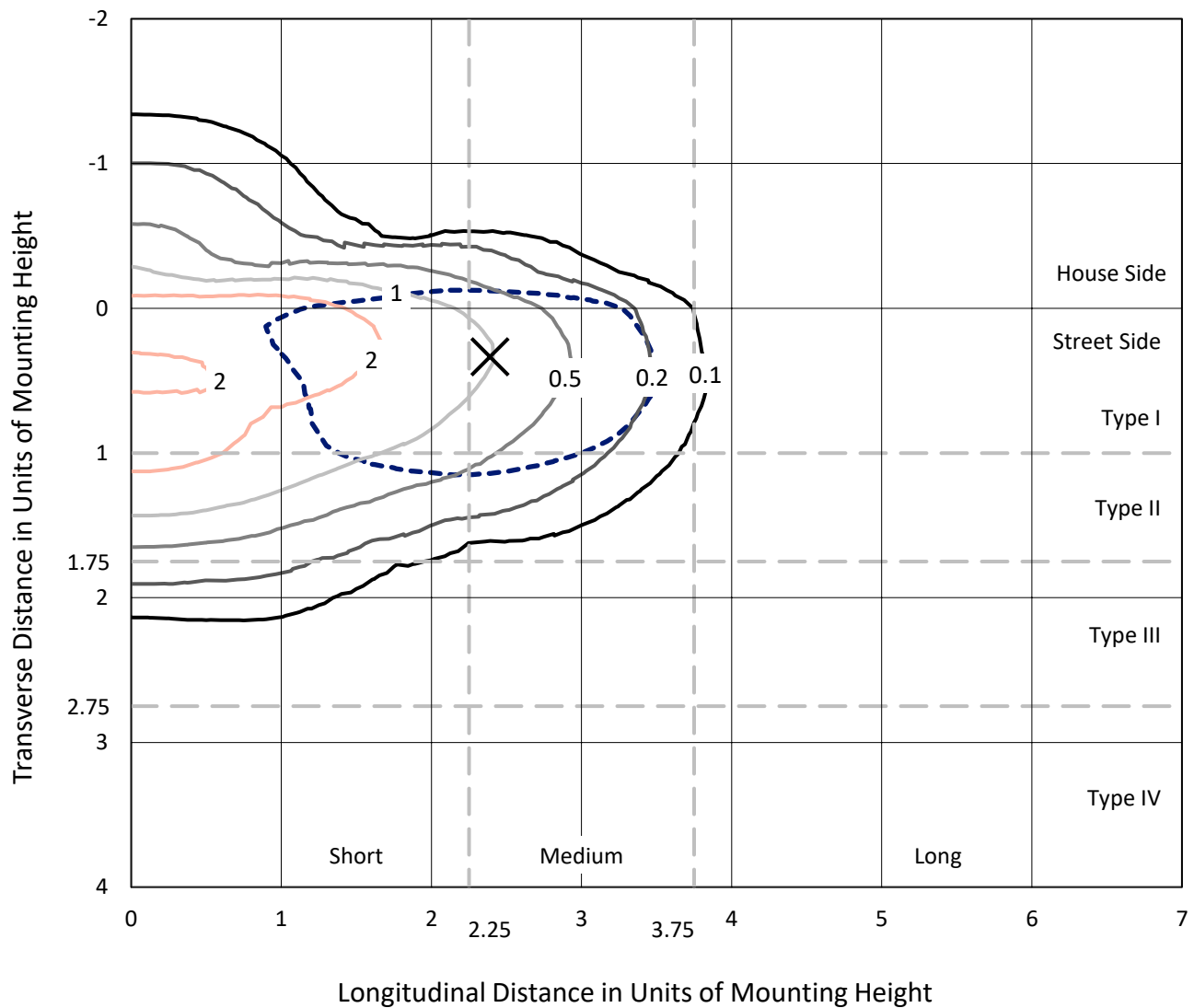


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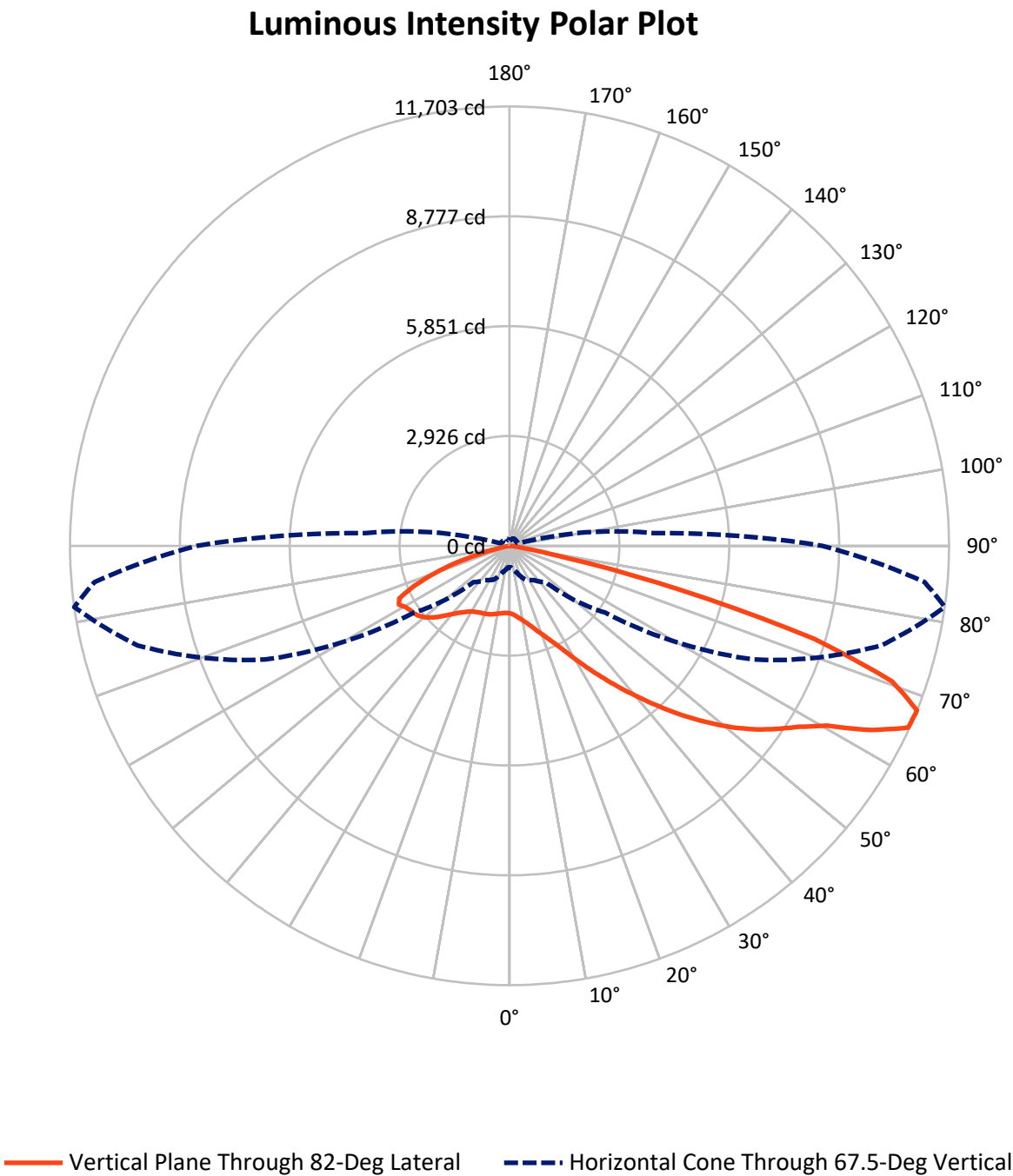
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd



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

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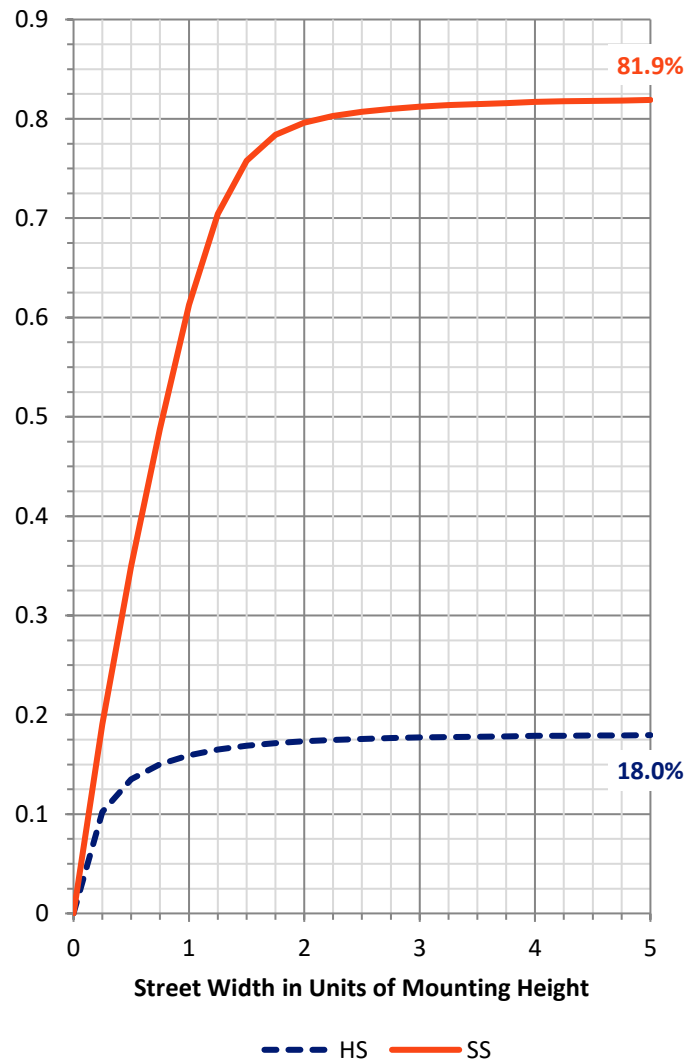
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1964.5	0.0	1964.5
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	8880.5	0.0	8880.5
	% Fixture	81.9	0.0	81.9
Total	Lumens	10845.0	0.0	10845.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.1	1.5
10°-20°	416.0	3.8
20°-30°	666.2	6.1
30°-40°	1178.1	10.9
40°-50°	2064.1	19.0
50°-60°	2753.0	25.4
60°-70°	2562.9	23.6
70°-80°	983.6	9.1
80°-90°	61.1	0.6
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°	10845.0	100.0
0°-180°	10845.0	100.0

Coefficient of Utilization



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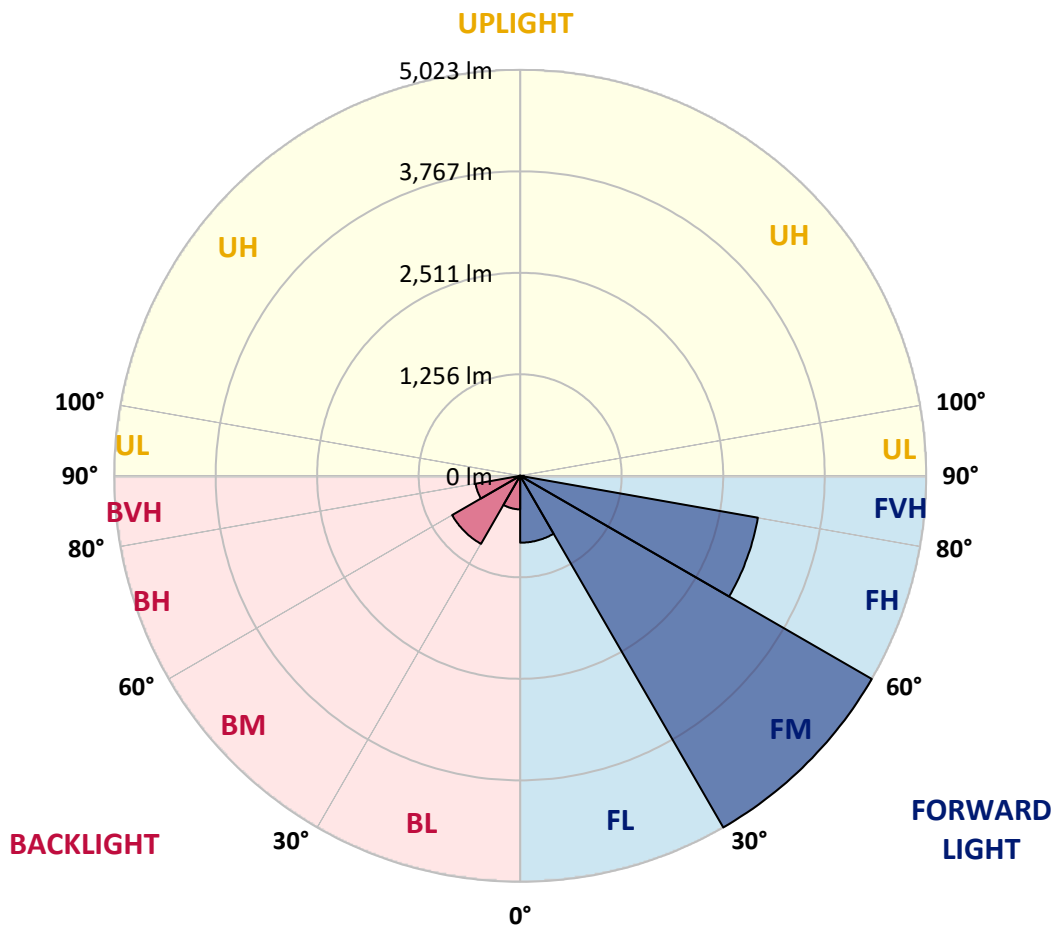
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	827.4	7.6			
FM	(30°-60°)	5023.0	46.3			
FH	(60°-80°)	2985.8	27.5			G2/5000
FVH	(80°-90°)	44.4	0.4			G1/100
BL	(0°-30°)	414.9	3.8	B1/500		
BM	(30°-60°)	972.2	9.0	B1/1000		
BH	(60°-80°)	560.7	5.2	B2/1000		G2/1000
BVH	(80°-90°)	16.7	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	1796.6	1796.6	1796.6	1796.6	1796.6	1796.6	1796.6	1796.6	1796.6	1796.6	1796.6
2.5°	1898.9	1909.9	1903.6	1900.5	1895.0	1887.2	1881.0	1861.5	1841.2	1827.9	1823.2
5°	1937.2	1948.1	1947.3	1950.5	1954.4	1956.7	1955.2	1933.3	1904.4	1881.8	1868.5
7.5°	1904.4	1916.9	1927.0	1942.7	1970.0	1998.9	2012.9	2008.2	1978.6	1947.3	1930.9
10°	1811.5	1824.8	1849.0	1885.7	1943.4	2005.9	2058.2	2082.4	2063.7	2029.3	2006.7
12.5°	1641.3	1654.5	1702.2	1781.8	1878.6	1987.2	2087.1	2151.9	2156.6	2122.2	2095.7
15°	1450.0	1463.2	1514.0	1613.9	1761.5	1935.6	2102.7	2225.3	2266.7	2237.0	2205.0
17.5°	1331.3	1343.0	1381.3	1461.7	1615.5	1832.6	2097.3	2303.4	2397.9	2374.5	2336.2
20°	1295.4	1305.5	1323.5	1379.7	1507.7	1725.6	2061.3	2376.8	2539.2	2525.9	2483.0
22.5°	1333.6	1343.0	1348.5	1373.4	1453.9	1655.3	2016.1	2451.8	2703.2	2704.7	2652.4
25°	1421.9	1431.2	1425.0	1440.6	1475.7	1633.5	1998.9	2540.0	2909.3	2926.5	2867.1
27.5°	1567.1	1567.9	1553.0	1552.3	1557.7	1666.3	2016.8	2634.5	3169.3	3201.3	3127.9
30°	1858.3	1846.6	1789.6	1727.9	1699.8	1764.6	2066.8	2746.1	3476.2	3533.2	3441.0
32.5°	2307.3	2290.1	2185.5	2037.9	1889.6	1923.1	2156.6	2873.4	3810.4	3913.4	3801.0
35°	2794.5	2789.8	2680.5	2461.1	2201.9	2148.8	2302.6	3040.5	4175.0	4339.0	4205.5
37.5°	3247.4	3245.1	3182.6	2924.1	2608.7	2463.5	2536.9	3259.1	4565.4	4802.8	4645.1
40°	3661.2	3668.3	3605.8	3374.7	3056.9	2867.1	2855.4	3529.3	4999.5	5308.0	5120.6
42.5°	4018.8	4026.6	3963.4	3792.4	3499.6	3313.8	3246.6	3860.3	5423.5	5850.6	5628.9
45°	4261.7	4310.1	4300.7	4164.1	3954.0	3761.2	3716.7	4275.7	5906.8	6426.1	6166.1
47.5°	4330.4	4374.9	4445.2	4463.9	4335.9	4146.1	4199.2	4776.2	6395.6	7002.3	6706.4
50°	4160.9	4202.3	4348.3	4542.8	4631.8	4573.2	4668.5	5312.6	6896.1	7577.0	7236.6
52.5°	3826.8	3868.9	4053.2	4360.8	4723.9	4908.2	5139.3	5841.3	7381.0	8121.2	7738.6
55°	3343.4	3387.9	3624.5	3972.8	4548.2	5046.4	5532.1	6369.1	7825.3	8610.8	8191.5
57.5°	2686.0	2718.8	2964.7	3452.0	4106.3	4909.0	5821.7	6945.3	8243.8	9091.8	8640.5
60°	1750.6	1779.5	2065.2	2608.7	3373.9	4449.9	5879.5	7587.9	8799.8	9717.2	9245.6
62.5°	1164.2	1183.7	1353.1	1752.1	2376.0	3568.3	5541.4	8100.9	9614.9	10805.7	10283.3
65°	798.8	818.3	987.7	1265.7	1535.1	2360.4	4569.3	8033.0	10353.6	11670.0	11052.4
67.5°	570.0	586.4	730.1	992.4	1111.1	1371.1	3097.5	7164.7	10247.4	11702.8	11093.8
70°	408.4	417.7	536.4	773.0	883.1	823.8	1722.5	5479.7	8972.3	10806.4	10248.9
72.5°	285.8	288.9	372.4	588.7	711.3	601.2	819.9	3653.4	6786.0	8482.0	7945.5
75°	193.6	197.5	250.6	431.8	570.8	459.1	434.1	1959.1	3983.7	4695.0	4208.6
77.5°	118.7	120.2	161.6	295.1	427.1	349.8	279.5	830.0	1541.3	1513.2	1289.9
80°	67.1	67.1	103.1	183.5	291.2	225.7	196.0	352.9	488.0	428.7	377.9
82.5°	37.5	38.3	75.0	114.0	192.9	133.5	107.8	163.2	210.8	186.6	162.4
85°	15.6	17.2	46.1	53.9	92.1	66.4	43.7	68.7	78.1	69.5	50.8
87.5°	1.6	2.3	14.1	10.2	10.9	13.3	6.2	13.3	10.9	10.9	7.8
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°	1796.6	1796.6	1796.6	1796.6	1796.6	1796.6	1796.6	1796.6	1796.6	1796.6	1796.6
2.5°	1808.4	1796.6	1767.0	1732.6	1687.3	1665.5	1635.8	1615.5	1598.3	1599.9	1584.3
5°	1843.5	1813.8	1747.5	1664.7	1561.6	1488.2	1410.1	1356.3	1312.5	1303.2	1282.1
7.5°	1891.9	1845.1	1728.7	1579.6	1405.5	1273.5	1155.6	1079.9	1026.0	1008.8	991.6
10°	1954.4	1886.4	1704.5	1472.6	1222.0	1054.1	927.6	868.3	831.6	819.1	809.7
12.5°	2027.0	1934.1	1672.5	1342.2	1033.0	871.4	791.0	761.3	749.6	745.7	743.3
15°	2118.3	1993.4	1624.1	1187.6	872.9	759.7	725.4	721.5	723.0	721.5	720.7
17.5°	2226.9	2058.2	1545.2	1028.3	765.2	702.7	690.2	693.4	697.3	696.5	694.9
20°	2345.6	2122.2	1444.5	887.0	691.8	662.1	655.1	658.2	661.3	659.8	659.0
22.5°	2480.6	2191.0	1332.8	776.9	642.6	624.6	616.8	617.6	617.6	614.5	612.9
25°	2642.3	2266.7	1215.7	698.8	605.1	591.1	581.7	578.6	573.9	564.5	563.0
27.5°	2835.1	2347.1	1103.3	644.2	575.5	562.2	551.3	543.4	531.7	516.1	514.6
30°	3052.2	2444.7	1008.0	609.8	552.0	538.8	526.3	514.6	497.4	477.9	476.3
32.5°	3307.5	2549.4	938.5	587.2	531.0	516.9	502.1	488.0	469.3	449.7	450.5
35°	3612.0	2675.8	897.9	571.6	514.6	495.8	479.4	463.8	449.7	432.6	431.0
37.5°	3942.3	2810.1	885.4	563.7	503.6	474.7	456.0	445.1	443.5	433.4	432.6
40°	4303.8	2969.4	894.8	559.1	491.9	454.4	434.1	431.8	435.7	417.7	418.5
42.5°	4686.4	3158.4	910.4	553.6	475.5	434.1	414.6	414.6	411.5	386.5	386.5
45°	5100.3	3376.2	926.0	540.3	456.0	413.8	399.0	393.5	380.3	356.1	355.3
47.5°	5517.2	3598.0	937.8	516.1	432.6	396.7	383.4	370.9	351.4	329.5	328.7
50°	5913.1	3797.1	925.3	480.2	406.0	380.3	366.2	349.0	327.9	313.1	310.8
52.5°	6266.8	3969.7	872.2	438.0	377.9	363.1	350.6	332.6	315.4	299.8	298.3
55°	6574.4	4109.4	778.5	398.2	352.9	348.2	335.7	313.1	289.7	276.4	274.8
57.5°	6869.6	4215.6	661.3	365.4	330.3	331.8	313.1	292.8	270.9	256.9	255.3
60°	7262.3	4357.7	542.7	335.0	306.1	310.8	290.5	275.6	248.3	230.3	228.0
62.5°	7890.1	4578.7	431.0	297.5	278.0	279.5	270.9	253.0	220.2	199.1	197.5
65°	8388.3	4497.5	339.7	256.9	246.0	248.3	248.3	228.8	193.6	169.4	167.1
67.5°	8332.0	3851.0	270.9	217.1	215.5	217.1	222.5	206.1	171.8	152.3	149.1
70°	7675.4	3063.1	217.1	180.4	187.4	183.5	199.1	188.2	154.6	135.1	132.7
72.5°	6262.9	2206.6	165.5	149.1	143.7	149.9	179.6	169.4	128.8	107.0	104.6
75°	3659.7	1177.5	123.4	117.9	103.8	124.9	159.3	144.5	98.4	78.9	76.5
77.5°	1191.5	410.7	90.6	86.7	77.3	100.7	135.9	121.8	80.4	62.5	60.1
80°	319.4	124.1	61.7	57.0	50.0	75.0	107.8	96.8	57.8	40.6	39.8
82.5°	128.1	52.3	35.9	32.0	27.3	51.5	85.1	78.1	42.9	25.8	25.8
85°	41.4	17.2	13.3	10.2	12.5	32.0	50.8	53.1	30.5	13.3	10.2
87.5°	5.5	2.3	2.3	3.1	2.3	5.5	15.6	14.8	8.6	1.6	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)