

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: STREETWORKS

Report Number: P835808

Luminaire Tested: **ARCH3-100-722-U-T4W-HSS**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P835808
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-27)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-100-722-U-T4W-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2200K, 805mA LIGHTSQUARE WITH 40 LEDS AND TYPE IV WIDE OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9432 lumens
Efficiency: N/A
Efficacy: 91.9 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 102.6
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



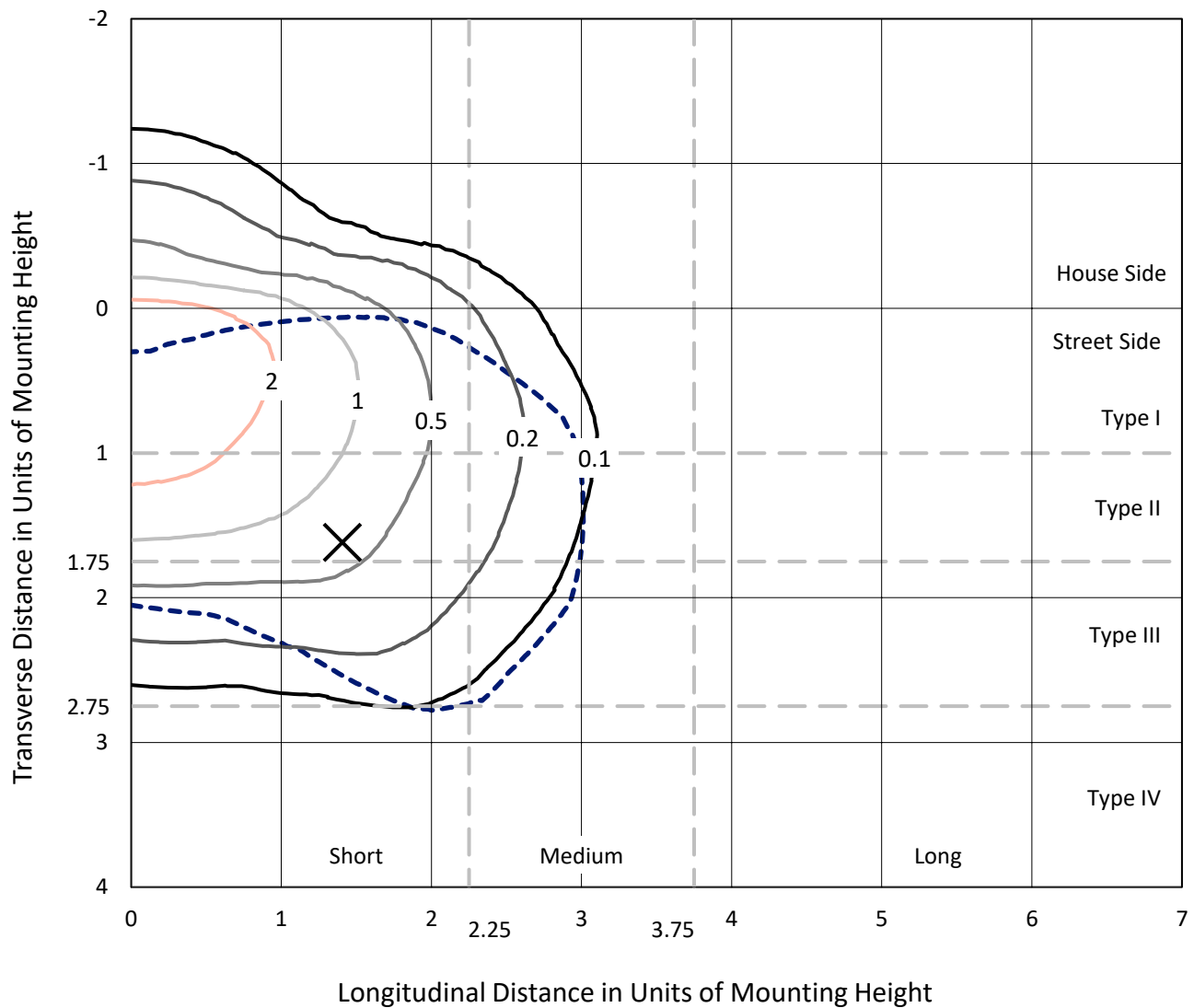
REPORT NUMBER: P835808

CATALOG NUMBER: ARCH3-100-722-U-T4W-HSS

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

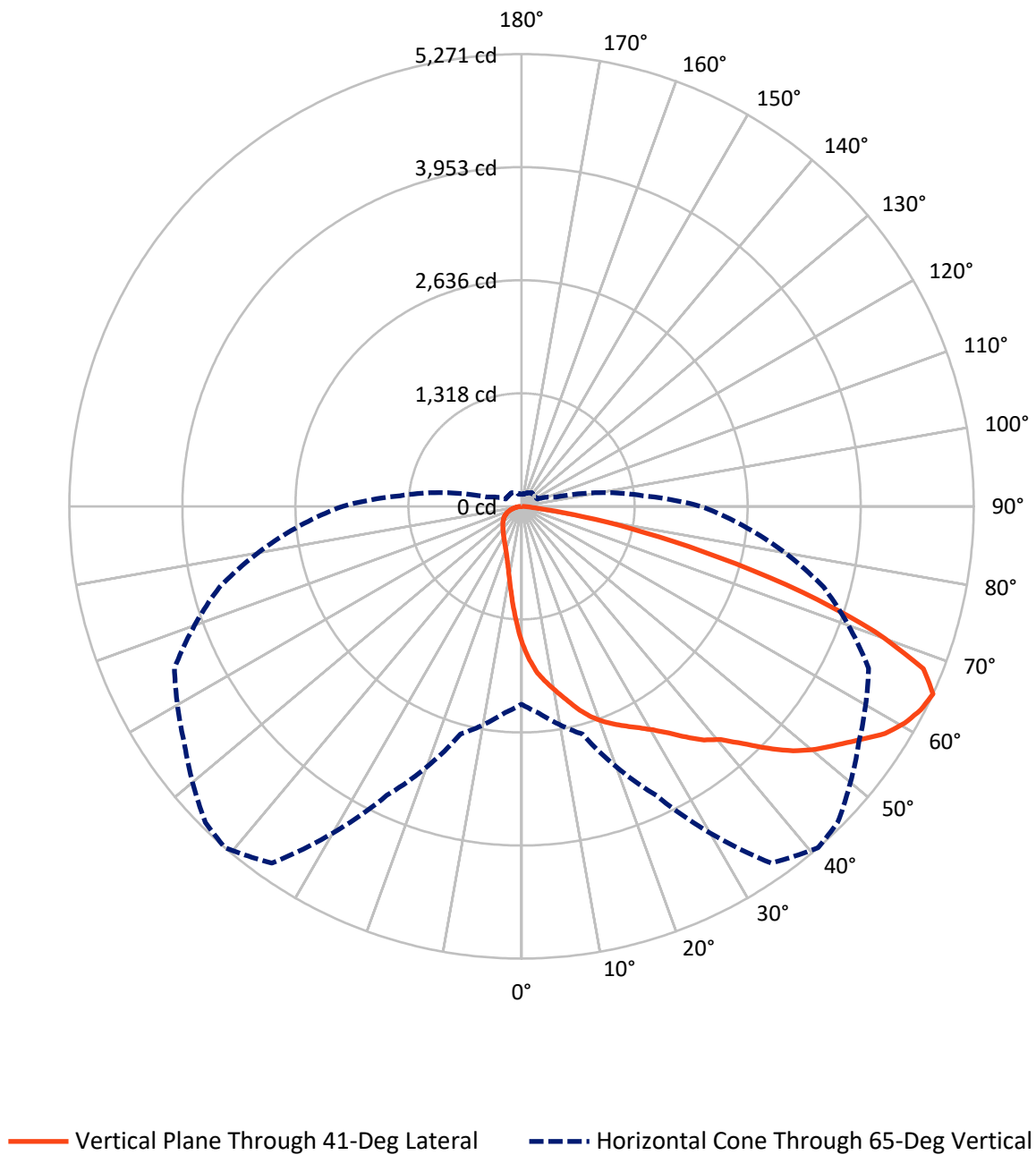


Based on 25 foot mounting height. Maximum calculated value = 3.7 fc
Type III - Short - N/A

REPORT NUMBER: P835808

CATALOG NUMBER: ARCH3-100-722-U-T4W-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P835808

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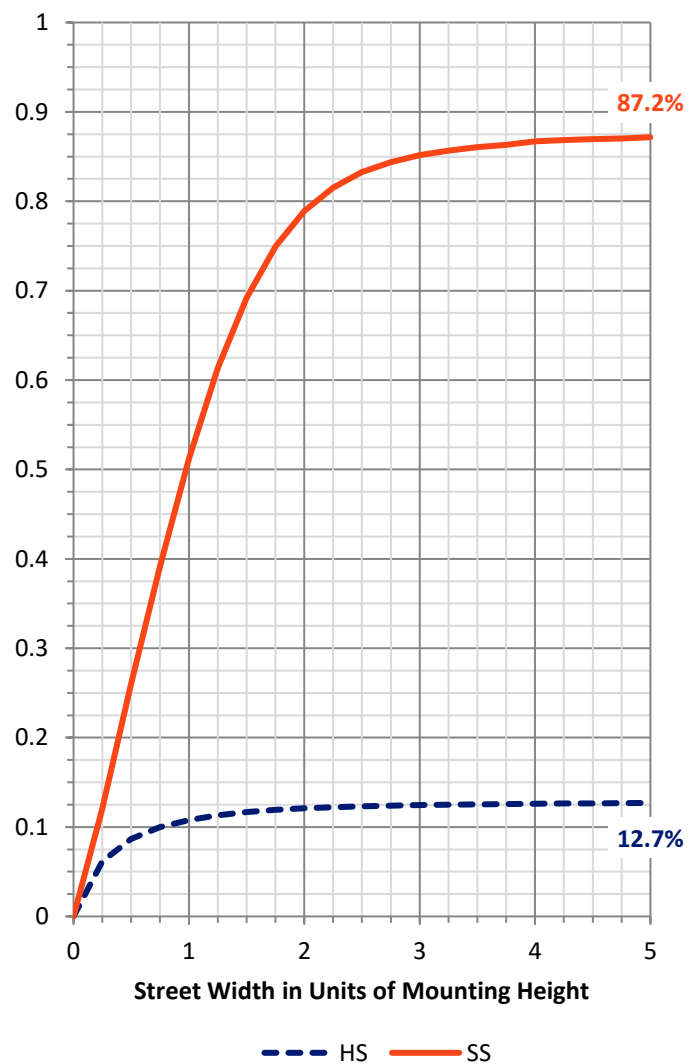
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1210.9	0.0	1210.9
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	8221.1	0.0	8221.1
	% Fixture	87.2	0.0	87.2
Total	Lumens	9432.0	0.0	9432.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.7	1.6
10°-20°	449.0	4.8
20°-30°	772.5	8.2
30°-40°	1171.6	12.4
40°-50°	1716.4	18.2
50°-60°	2167.5	23.0
60°-70°	2032.4	21.5
70°-80°	905.8	9.6
80°-90°	67.1	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°	9432.0	100.0
0°-180°	9432.0	100.0

Coefficient of Utilization



REPORT NUMBER: P835808

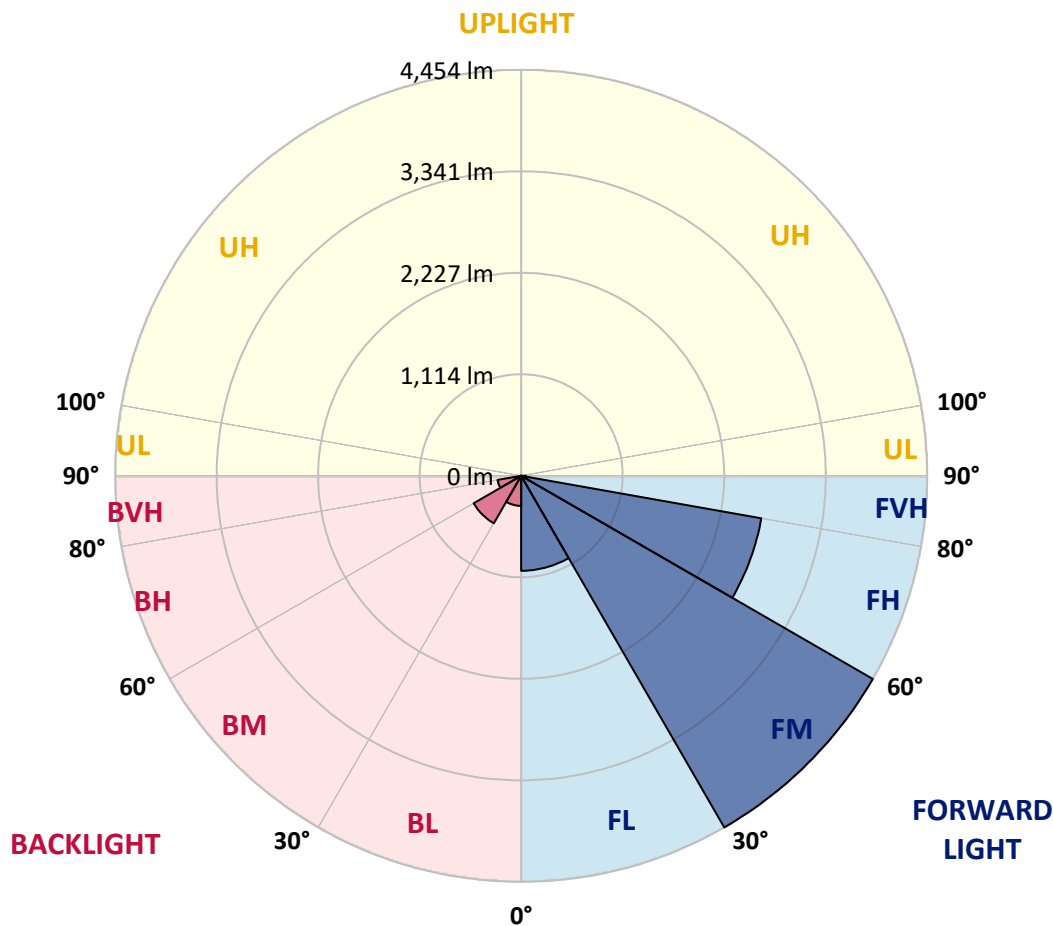
CATALOG NUMBER: ARCH3-100-722-U-T4W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1041.6	11.0			
FM	(30°-60°)	4454.2	47.2			
FH	(60°-80°)	2675.2	28.4			G2/5000
FVH	(80°-90°)	50.1	0.5			G1/100
BL	(0°-30°)	329.6	3.5	B1/500		
BM	(30°-60°)	601.3	6.4	B1/1000		
BH	(60°-80°)	263.0	2.8	B1/500		G1/500
BVH	(80°-90°)	17.0	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Short



REPORT NUMBER: P835808

CATALOG NUMBER: ARCH3-100-722-U-T4W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	41°	45°	55°	65°	75°	85°
0°	1607.2	1607.2	1607.2	1607.2	1607.2	1607.2	1607.2	1607.2	1607.2	1607.2	1607.2
2.5°	1853.8	1847.8	1843.9	1822.0	1822.0	1792.1	1794.1	1766.3	1732.5	1678.8	1621.1
5°	2028.8	2020.9	2010.9	1989.1	1981.1	1951.3	1947.3	1907.5	1849.8	1756.3	1652.9
7.5°	2182.0	2174.0	2160.1	2128.3	2106.4	2070.6	2060.7	2009.0	1945.3	1829.9	1684.7
10°	2321.2	2315.3	2297.4	2257.6	2227.8	2184.0	2166.1	2096.5	2016.9	1889.6	1710.6
12.5°	2462.5	2454.5	2430.6	2396.8	2361.0	2309.3	2287.4	2197.9	2096.5	1955.2	1748.4
15°	2593.7	2581.8	2563.9	2528.1	2496.3	2446.5	2422.7	2317.3	2193.9	2028.8	1798.1
17.5°	2679.3	2669.3	2653.4	2633.5	2607.7	2569.9	2546.0	2442.6	2291.4	2100.5	1849.8
20°	2731.0	2727.0	2721.0	2709.1	2697.2	2671.3	2653.4	2555.9	2396.8	2170.1	1899.6
22.5°	2770.8	2766.8	2764.8	2764.8	2766.8	2756.8	2744.9	2661.4	2498.3	2243.7	1945.3
25°	2832.4	2830.4	2826.5	2822.5	2836.4	2838.4	2834.4	2776.7	2625.6	2341.1	2003.0
27.5°	2918.0	2912.0	2904.0	2900.1	2914.0	2923.9	2931.9	2892.1	2760.8	2440.6	2068.6
30°	3049.2	3031.3	3011.4	2997.5	3007.5	3023.4	3041.3	3017.4	2900.1	2563.9	2136.3
32.5°	3204.4	3182.5	3136.8	3110.9	3136.8	3148.7	3162.6	3150.7	3045.3	2697.2	2203.9
35°	3393.3	3367.5	3319.7	3282.0	3327.7	3301.8	3295.9	3283.9	3182.5	2828.4	2279.5
37.5°	3707.6	3669.8	3594.2	3510.7	3510.7	3455.0	3433.1	3397.3	3305.8	2945.8	2353.1
40°	4071.6	4021.9	3924.4	3801.1	3687.7	3572.4	3558.4	3532.6	3451.0	3081.1	2436.6
42.5°	4471.4	4375.9	4240.7	4091.5	3908.5	3777.2	3745.4	3671.8	3592.2	3218.3	2520.1
45°	4915.0	4716.1	4519.2	4443.6	4141.2	4021.9	3962.2	3828.9	3739.4	3361.5	2607.7
47.5°	4986.6	4831.4	4700.2	4688.2	4358.0	4258.6	4191.0	4000.0	3898.6	3514.7	2699.2
50°	4946.8	4853.3	4867.2	4819.5	4517.2	4451.5	4399.8	4183.0	4055.7	3661.9	2782.7
52.5°	4779.7	4831.4	4911.0	4823.5	4668.3	4614.6	4588.8	4379.9	4202.9	3797.1	2858.3
55°	4580.8	4616.6	4787.7	4895.1	4843.4	4795.6	4771.8	4608.7	4348.1	3910.5	2927.9
57.5°	4290.4	4274.5	4463.5	4883.2	5026.4	4998.5	4972.7	4833.4	4483.3	3992.1	2971.7
60°	3854.8	3821.0	4059.7	4644.5	5086.0	5129.8	5117.9	4982.6	4586.8	3990.1	2953.8
62.5°	3101.0	3184.5	3514.7	4254.6	5111.9	5223.3	5201.4	4994.5	4620.6	3874.7	2840.4
65°	2305.3	2424.7	2748.9	3717.6	5076.1	5271.0	5211.3	4799.6	4463.5	3646.0	2591.8
67.5°	1660.9	1766.3	2003.0	3059.2	4732.0	5052.2	4982.6	4481.4	4101.4	3321.7	2247.6
70°	1135.8	1211.3	1372.5	2227.8	4039.8	4368.0	4324.2	4006.0	3530.6	2935.9	1826.0
72.5°	801.6	833.4	936.8	1469.9	3069.1	3427.2	3375.4	3295.9	2836.4	2440.6	1420.2
75°	600.7	620.6	676.3	950.8	2070.6	2374.9	2327.2	2373.0	2118.4	1847.8	1034.3
77.5°	226.8	246.6	383.9	606.7	1225.3	1458.0	1410.2	1438.1	1177.5	932.9	515.2
80°	61.7	65.6	127.3	288.4	556.9	726.0	660.4	566.9	437.6	429.6	272.5
82.5°	25.9	29.8	57.7	155.1	198.9	198.9	167.1	206.9	167.1	200.9	131.3
85°	9.9	11.9	13.9	39.8	25.9	27.8	29.8	39.8	33.8	41.8	29.8
87.5°	0.0	0.0	0.0	2.0	2.0	4.0	2.0	4.0	6.0	6.0	6.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P835808

CATALOG NUMBER: ARCH3-100-722-U-T4W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1607.2	1607.2	1607.2	1607.2	1607.2	1607.2	1607.2	1607.2	1607.2	1607.2	1607.2
2.5°	1597.2	1575.3	1543.5	1491.8	1438.1	1408.3	1370.5	1364.5	1324.7	1320.7	1304.8
5°	1607.2	1561.4	1479.9	1380.4	1282.9	1207.4	1151.7	1121.8	1064.1	1064.1	1048.2
7.5°	1615.1	1543.5	1412.2	1265.0	1131.8	1030.3	954.8	922.9	871.2	867.2	855.3
10°	1617.1	1521.6	1338.6	1147.7	984.6	881.2	807.6	771.8	726.0	722.0	714.1
12.5°	1633.0	1509.7	1273.0	1046.2	879.2	767.8	696.2	666.3	630.5	626.6	618.6
15°	1658.9	1509.7	1217.3	960.7	785.7	682.2	620.6	592.7	566.9	562.9	558.9
17.5°	1684.7	1505.7	1161.6	881.2	708.1	614.6	560.9	539.0	519.1	517.2	513.2
20°	1708.6	1503.7	1105.9	813.5	648.4	558.9	517.2	497.3	481.4	481.4	479.4
22.5°	1732.5	1499.8	1052.2	749.9	596.7	517.2	481.4	459.5	447.5	447.5	445.6
25°	1768.3	1499.8	1002.5	696.2	554.9	485.3	449.5	433.6	423.7	421.7	421.7
27.5°	1810.0	1511.7	958.7	648.4	519.1	453.5	425.7	409.7	397.8	393.8	395.8
30°	1855.8	1521.6	918.9	606.7	485.3	429.6	399.8	383.9	372.0	368.0	370.0
32.5°	1901.5	1533.6	883.1	568.9	451.5	407.8	377.9	360.0	348.1	346.1	346.1
35°	1951.3	1545.5	847.3	537.0	423.7	385.9	358.0	338.1	330.2	326.2	328.2
37.5°	2001.0	1565.4	813.5	507.2	403.8	366.0	340.1	320.2	314.3	312.3	312.3
40°	2060.7	1595.2	799.6	487.3	385.9	348.1	326.2	306.3	300.3	300.3	300.3
42.5°	2110.4	1619.1	787.7	465.4	372.0	332.2	312.3	296.4	292.4	290.4	292.4
45°	2160.1	1641.0	771.8	445.6	354.1	316.3	300.3	284.4	280.5	280.5	280.5
47.5°	2209.8	1652.9	749.9	425.7	338.1	302.3	288.4	274.5	270.5	270.5	270.5
50°	2249.6	1662.9	718.1	403.8	320.2	290.4	276.5	262.6	258.6	258.6	258.6
52.5°	2289.4	1664.8	684.2	377.9	302.3	276.5	264.5	250.6	246.6	244.7	244.7
55°	2325.2	1662.9	644.5	348.1	282.4	260.6	250.6	238.7	230.7	222.8	226.8
57.5°	2351.1	1660.9	598.7	318.3	262.6	244.7	240.7	224.8	208.9	189.0	192.9
60°	2341.1	1639.0	549.0	280.5	240.7	228.7	228.7	206.9	179.0	169.1	171.1
62.5°	2277.5	1577.3	497.3	240.7	218.8	212.8	210.8	187.0	165.1	155.1	157.1
65°	2086.5	1422.2	421.7	204.9	196.9	194.9	194.9	173.0	153.2	141.2	143.2
67.5°	1796.1	1193.4	344.1	173.0	175.0	179.0	179.0	159.1	139.2	127.3	129.3
70°	1440.1	932.9	274.5	149.2	151.2	157.1	161.1	143.2	125.3	113.4	113.4
72.5°	1084.0	708.1	220.8	125.3	135.3	135.3	141.2	127.3	109.4	97.5	99.5
75°	785.7	507.2	175.0	105.4	117.4	115.4	115.4	107.4	93.5	85.5	85.5
77.5°	372.0	266.5	139.2	75.6	91.5	89.5	91.5	85.5	79.6	71.6	73.6
80°	183.0	131.3	89.5	53.7	63.7	65.6	71.6	67.6	65.6	59.7	59.7
82.5°	87.5	51.7	41.8	37.8	43.8	45.7	49.7	49.7	51.7	47.7	47.7
85°	23.9	13.9	17.9	23.9	27.8	29.8	33.8	35.8	35.8	33.8	35.8
87.5°	6.0	6.0	8.0	11.9	13.9	15.9	17.9	17.9	8.0	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)