

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: P835955

Luminaire Tested: **ARCH3-120-727-U-T2R-HSS**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P835955
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-329-2)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-120-727-U-T2R-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 965mA LIGHTSQUARE WITH 40 LEDS AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12446 lumens
Efficiency: N/A
Efficacy: 101.4 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 122.7
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

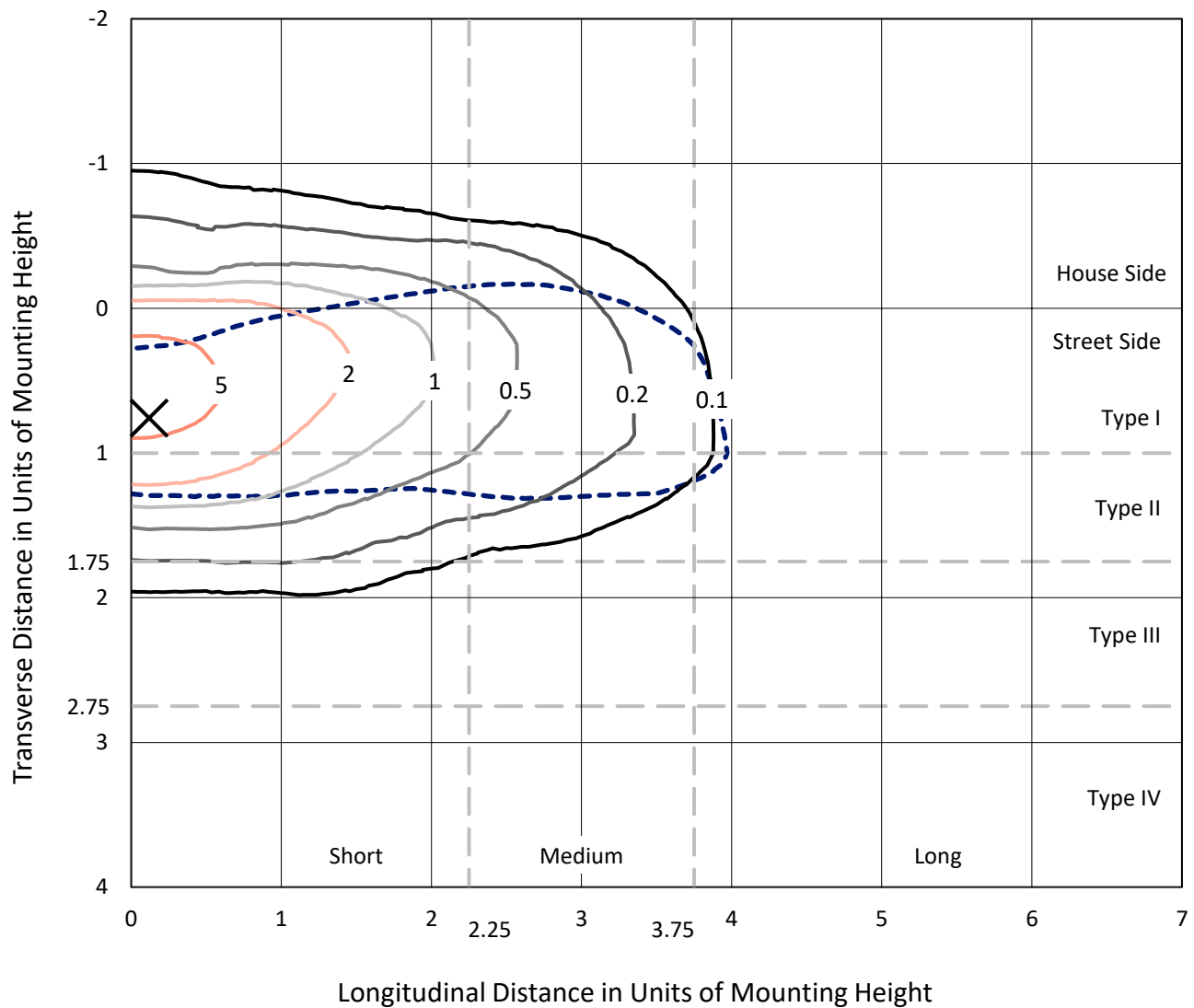


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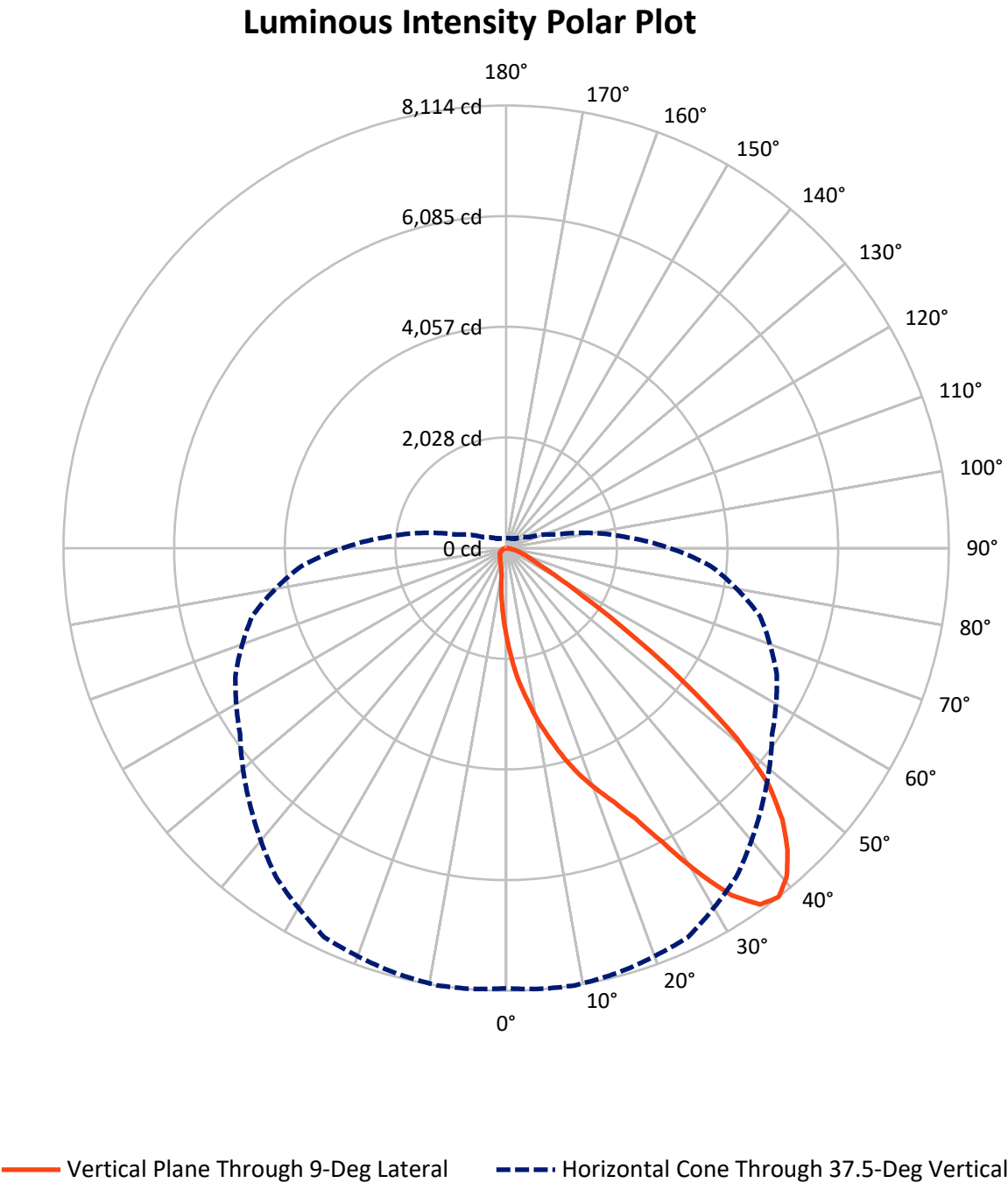
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 fc
Type II - Short - N/A

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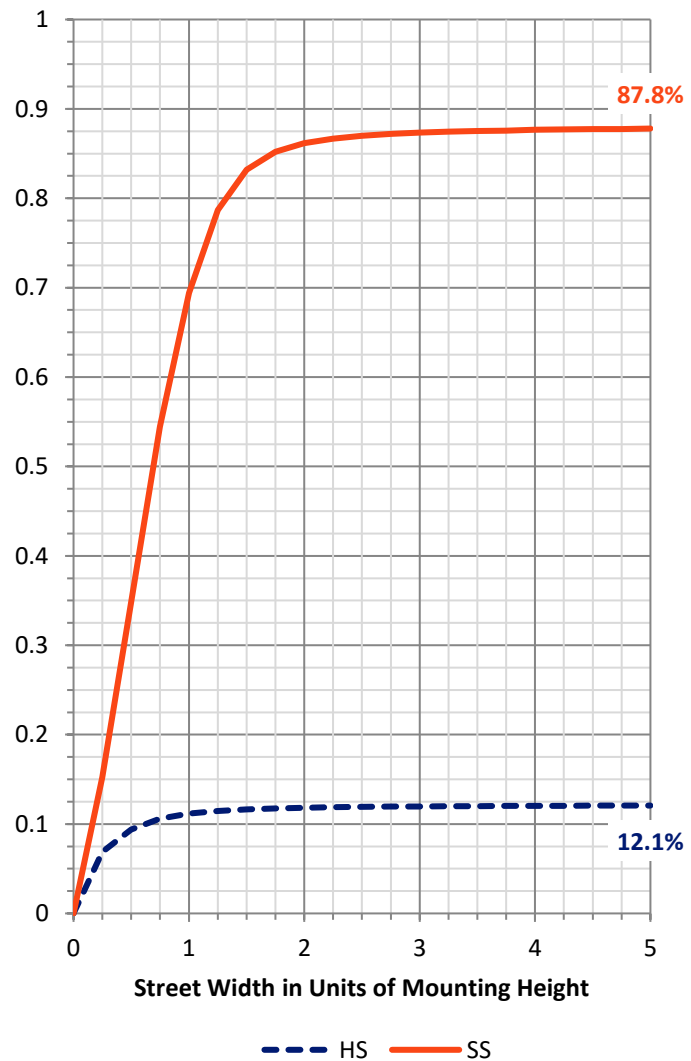
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1513.7	0.0	1513.7
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	10932.4	0.0	10932.4
	% Fixture	87.8	0.0	87.8
Total	Lumens	12446.0	0.0	12446.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	165.4	1.3
10°-20°	574.8	4.6
20°-30°	1181.0	9.5
30°-40°	2087.5	16.8
40°-50°	2773.1	22.3
50°-60°	2630.1	21.1
60°-70°	2006.6	16.1
70°-80°	972.8	7.8
80°-90°	54.8	0.4
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°	12446.0	100.0
0°-180°	12446.0	100.0

Coefficient of Utilization



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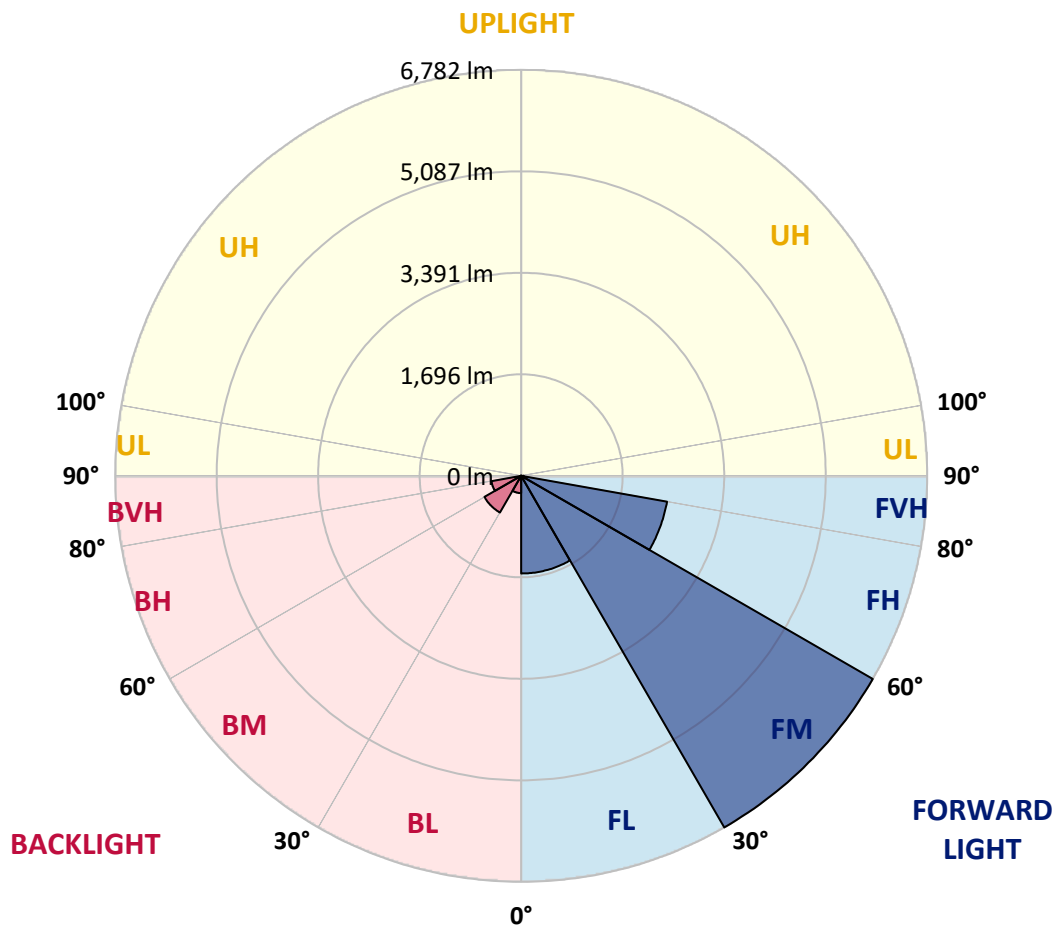
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1632.3	13.1			
FM	(30°-60°)	6782.5	54.5			
FH	(60°-80°)	2474.2	19.9			G2/5000
FVH	(80°-90°)	43.4	0.3			G1/100
BL	(0°-30°)	288.9	2.3	B1/500		
BM	(30°-60°)	708.3	5.7	B1/1000		
BH	(60°-80°)	505.1	4.1	B2/1000		G2/1000
BVH	(80°-90°)	11.4	0.1			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 Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	9°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1645.2	1645.2	1645.2	1645.2	1645.2	1645.2	1645.2	1645.2	1645.2	1645.2	1645.2
2.5°	2038.6	2002.9	2043.7	2038.6	2002.9	1979.9	1908.3	1885.4	1801.0	1739.7	1686.1
5°	2457.6	2421.8	2457.6	2447.4	2396.3	2340.1	2222.6	2145.9	1995.2	1862.4	1742.3
7.5°	2805.0	2805.0	2820.4	2822.9	2761.6	2674.7	2529.1	2414.2	2202.1	1997.8	1806.2
10°	3180.6	3183.1	3216.3	3193.3	3111.6	2994.1	2810.1	2664.5	2409.1	2140.8	1867.5
12.5°	3581.7	3584.2	3594.4	3584.2	3487.1	3336.4	3114.1	2922.5	2628.8	2304.3	1951.8
15°	3982.7	3985.3	3998.1	3980.2	3872.9	3696.6	3443.7	3208.7	2861.2	2488.3	2054.0
17.5°	4358.3	4363.4	4373.6	4350.6	4238.2	4028.7	3770.7	3487.1	3109.0	2685.0	2168.9
20°	4695.5	4700.6	4708.3	4677.6	4565.2	4355.7	4077.3	3780.9	3362.0	2886.8	2294.1
22.5°	5035.3	5040.4	5053.1	5012.3	4887.1	4647.0	4373.6	4067.0	3630.2	3109.0	2439.7
25°	5469.6	5474.7	5484.9	5426.1	5255.0	4974.0	4685.3	4371.0	3921.4	3359.4	2618.5
27.5°	6105.7	6100.6	6100.6	5993.3	5699.5	5334.2	4999.5	4680.2	4235.7	3627.6	2815.3
30°	6892.5	6879.7	6872.1	6726.5	6307.5	5740.4	5321.4	4968.8	4537.1	3911.2	3027.3
32.5°	7597.6	7597.6	7582.3	7429.0	6984.5	6287.1	5663.7	5249.9	4828.3	4197.3	3247.0
35°	8014.0	8031.9	8024.2	7909.3	7584.8	6874.6	6126.1	5587.1	5134.9	4496.2	3510.1
37.5°	8070.2	8106.0	8113.6	8044.7	7873.5	7354.9	6639.6	5952.4	5472.1	4818.1	3765.6
40°	7842.9	7919.5	7919.5	7909.3	7848.0	7582.3	7071.3	6376.5	5819.5	5152.8	4023.6
42.5°	7492.9	7572.1	7561.8	7600.2	7584.8	7528.6	7314.0	6772.4	6167.0	5497.7	4258.6
45°	7035.6	7117.3	7096.9	7165.9	7196.5	7257.8	7288.5	7048.3	6509.3	5873.2	4521.8
47.5°	6302.4	6440.3	6471.0	6593.6	6721.3	6913.0	7058.6	7148.0	6828.6	6276.8	4807.9
50°	5219.2	5413.4	5474.7	5732.7	6082.7	6478.7	6713.7	7025.4	7053.5	6690.7	5117.0
52.5°	3737.5	3962.3	4056.8	4480.9	5201.3	5891.1	6315.2	6754.6	7140.3	7086.7	5451.7
55°	2416.7	2608.3	2700.3	3098.8	4056.8	5140.0	5845.1	6404.6	7091.8	7449.4	5834.9
57.5°	1489.4	1599.2	1660.5	2002.9	2884.2	4176.9	5229.4	6082.7	6943.6	7763.7	6233.4
60°	1004.0	1067.9	1098.5	1259.5	1959.4	3121.8	4383.8	5745.5	6749.5	7975.7	6596.2
62.5°	666.8	687.2	717.9	817.5	1292.7	2191.9	3367.1	5142.6	6603.8	7988.5	6864.4
65°	516.0	526.3	539.0	582.5	797.1	1532.8	2368.2	4166.7	6386.7	7717.7	6948.7
67.5°	406.2	416.4	431.7	454.7	577.4	1039.8	1612.0	3052.8	5942.2	7293.6	6810.8
70°	319.3	327.0	337.2	357.7	449.6	753.6	1065.3	2028.4	5045.5	6890.0	6376.5
72.5°	252.9	260.6	270.8	291.2	365.3	551.8	730.6	1264.6	3890.8	6396.9	5541.1
75°	199.3	204.4	212.0	232.5	293.8	429.2	495.6	756.2	2644.1	5495.1	4317.4
77.5°	99.6	122.6	140.5	160.9	214.6	296.3	329.6	419.0	1116.4	2820.4	2059.1
80°	58.8	71.5	76.6	89.4	140.5	178.8	178.8	168.6	352.5	1083.2	840.5
82.5°	33.2	46.0	48.5	51.1	84.3	102.2	81.7	61.3	71.5	362.8	245.2
85°	10.2	15.3	17.9	20.4	28.1	30.7	28.1	25.5	20.4	35.8	23.0
87.5°	0.0	0.0	0.0	0.0	2.6	5.1	5.1	5.1	7.7	7.7	7.7
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°	1645.2	1645.2	1645.2	1645.2	1645.2	1645.2	1645.2	1645.2	1645.2	1645.2	1645.2
2.5°	1655.4	1622.2	1558.4	1499.6	1443.4	1402.5	1364.2	1328.4	1302.9	1282.4	1279.9
5°	1678.4	1612.0	1489.4	1374.4	1269.7	1182.8	1108.7	1050.0	1006.5	975.9	973.3
7.5°	1709.1	1606.9	1420.4	1249.2	1093.4	968.2	860.9	781.7	725.5	702.5	684.7
10°	1734.6	1601.8	1351.4	1124.1	919.7	761.3	633.6	554.4	513.5	498.2	490.5
12.5°	1778.1	1606.9	1292.7	1009.1	769.0	582.5	485.4	442.0	424.1	411.3	408.7
15°	1841.9	1629.9	1236.5	896.7	615.7	470.1	413.9	385.8	367.9	365.3	362.8
17.5°	1905.8	1650.3	1185.4	781.7	510.9	408.7	370.4	347.4	334.7	332.1	332.1
20°	1979.9	1675.9	1129.2	671.9	436.8	367.9	337.2	319.3	304.0	301.5	301.5
22.5°	2066.7	1711.6	1075.5	574.8	388.3	337.2	311.7	291.2	278.5	275.9	275.9
25°	2184.2	1765.3	1032.1	503.3	355.1	311.7	288.7	270.8	260.6	255.5	255.5
27.5°	2314.5	1839.4	1001.4	459.8	332.1	291.2	268.2	252.9	242.7	237.6	237.6
30°	2460.2	1921.1	981.0	442.0	319.3	273.4	252.9	237.6	224.8	222.3	222.3
32.5°	2621.1	2015.6	968.2	444.5	316.8	260.6	237.6	222.3	212.0	206.9	206.9
35°	2799.9	2120.4	960.6	459.8	321.9	250.4	224.8	209.5	199.3	194.2	194.2
37.5°	2999.2	2243.0	960.6	475.2	334.7	247.8	212.0	196.7	189.0	183.9	183.9
40°	3185.7	2373.3	970.8	493.1	347.4	247.8	201.8	189.0	178.8	173.7	173.7
42.5°	3331.3	2447.4	978.4	510.9	355.1	245.2	191.6	178.8	171.2	166.1	166.1
45°	3497.3	2526.6	963.1	518.6	355.1	240.1	183.9	171.2	163.5	158.4	158.4
47.5°	3681.3	2623.7	960.6	523.7	347.4	229.9	176.3	163.5	158.4	153.3	153.3
50°	3867.8	2730.9	965.7	521.2	337.2	214.6	166.1	158.4	150.7	145.6	145.6
52.5°	4079.8	2843.4	975.9	516.0	314.2	196.7	158.4	150.7	143.1	138.0	135.4
55°	4314.8	2966.0	996.3	505.8	283.6	178.8	150.7	143.1	132.8	127.7	125.2
57.5°	4585.6	3116.7	1019.3	485.4	250.4	163.5	143.1	132.8	117.5	109.9	107.3
60°	4843.7	3287.9	1044.9	436.8	217.1	148.2	135.4	120.1	104.7	99.6	97.1
62.5°	5086.4	3456.5	1057.6	350.0	183.9	135.4	127.7	109.9	94.5	89.4	86.9
65°	5242.2	3640.4	1029.5	237.6	150.7	125.2	117.5	102.2	86.9	79.2	79.2
67.5°	5252.4	3727.3	932.5	155.8	122.6	112.4	107.3	92.0	76.6	71.5	69.0
70°	4994.4	3597.0	712.8	122.6	102.2	97.1	97.1	81.7	66.4	61.3	58.8
72.5°	4401.7	3185.7	454.7	99.6	86.9	81.7	81.7	69.0	58.8	51.1	48.5
75°	3474.4	2457.6	242.7	81.7	71.5	69.0	63.9	56.2	48.5	43.4	40.9
77.5°	1596.7	1083.2	112.4	58.8	53.6	53.6	48.5	40.9	38.3	33.2	33.2
80°	631.0	367.9	56.2	38.3	35.8	35.8	35.8	28.1	28.1	23.0	20.4
82.5°	173.7	76.6	28.1	23.0	23.0	23.0	20.4	17.9	17.9	15.3	15.3
85°	17.9	12.8	12.8	12.8	12.8	10.2	10.2	7.7	5.1	5.1	5.1
87.5°	7.7	7.7	7.7	7.7	7.7	5.1	2.6	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)