

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: P1210714

Luminaire Tested: **ARCH3-50-727-U-T3RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210714
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-4)
Test Lab: INNOVATION CENTER
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-50-727-U-T3RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 425mA LIGHTSQUARE WITH 40 LEDS AND TYPE III ROADWAY
ILLUMINANCE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

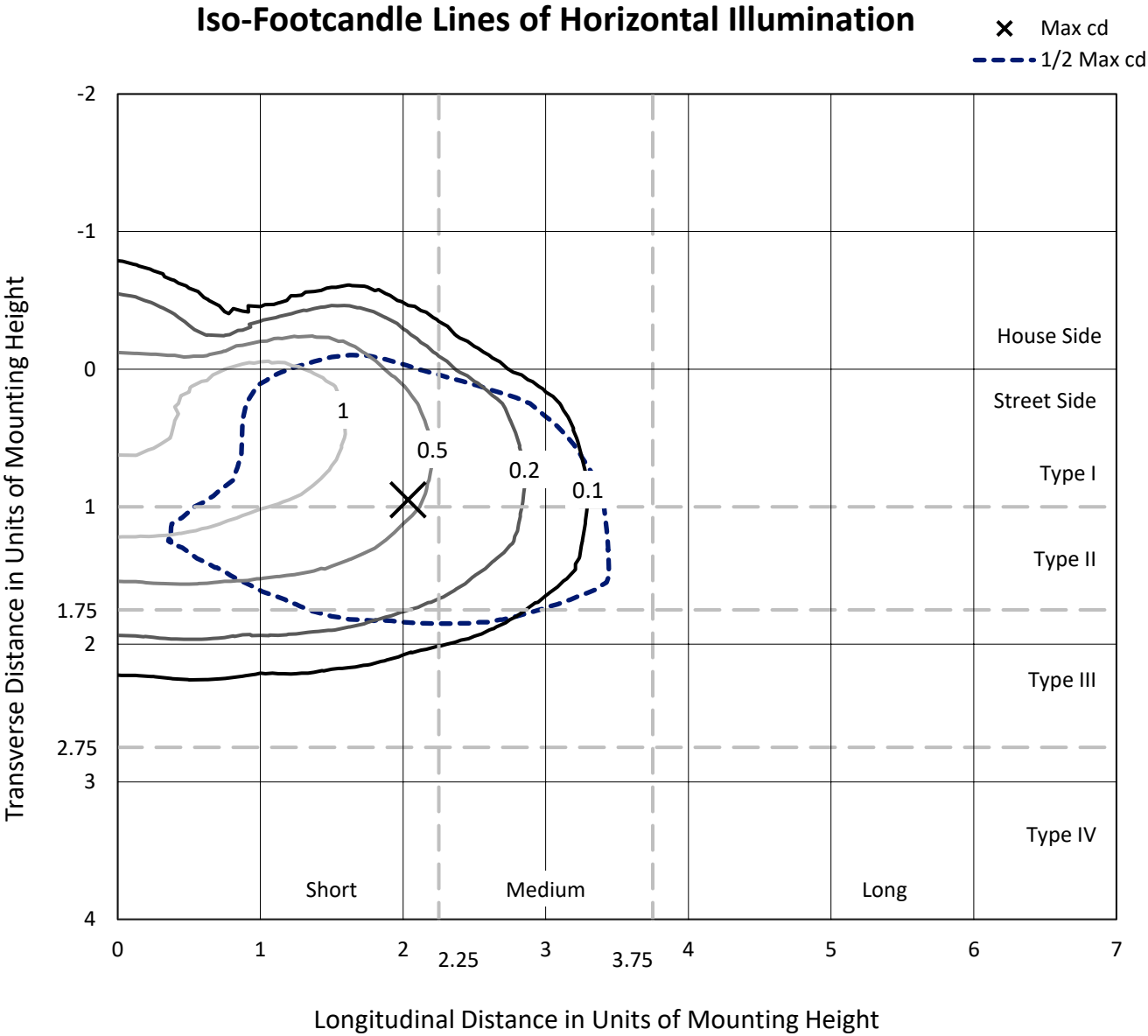
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5900 lumens
Efficiency: N/A
Efficacy: 110.1 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): 53.6
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

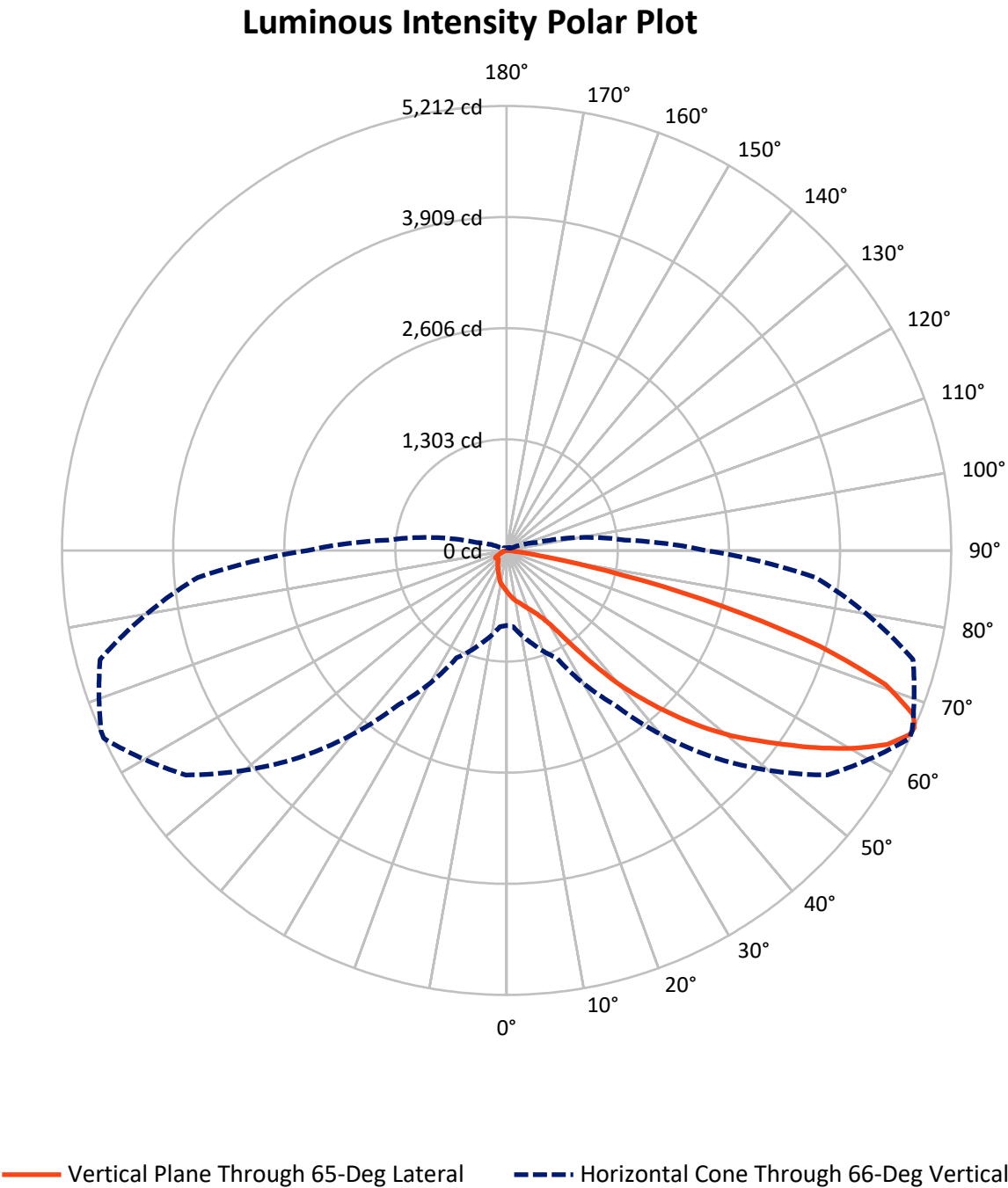


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Based on 25 foot mounting height. Maximum calculated value = 1.6 fc
Type III - Short - N/A

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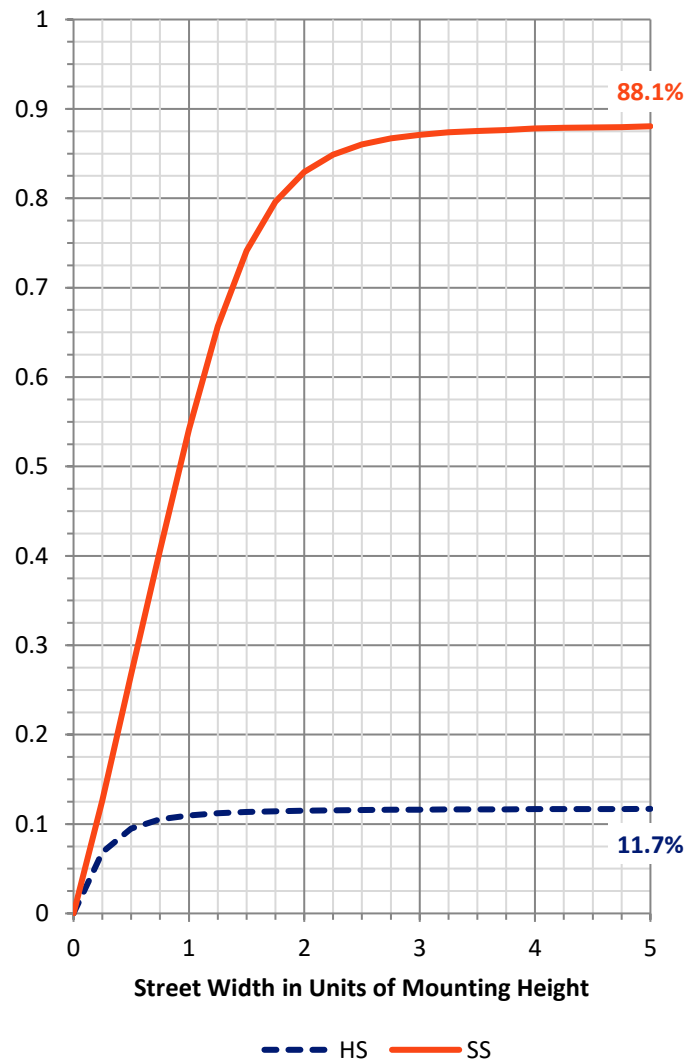
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	696.3	0.0	696.3
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	5203.7	0.0	5203.7
	% Fixture	88.2	0.0	88.2
Total	Lumens	5900.0	0.0	5900.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.6	0.8
10°-20°	134.9	2.3
20°-30°	246.9	4.2
30°-40°	501.7	8.5
40°-50°	1059.5	18.0
50°-60°	1628.8	27.6
60°-70°	1639.5	27.8
70°-80°	612.6	10.4
80°-90°	30.6	0.5
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°	5900.0	100.0
0°-180°	5900.0	100.0

Coefficient of Utilization



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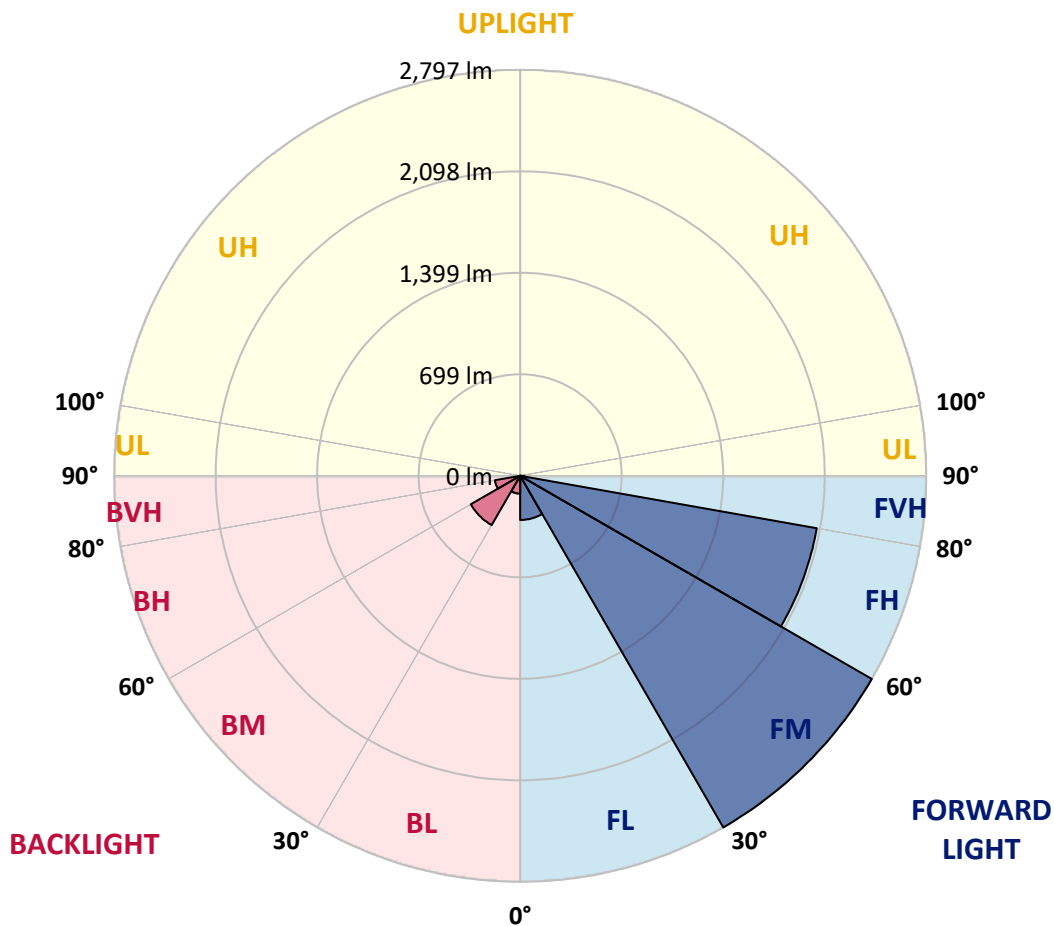
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	304.1	5.2			
FM	(30°-60°)	2797.4	47.4			
FH	(60°-80°)	2075.2	35.2			G2/5000
FVH	(80°-90°)	27.0	0.5			G1/100
BL	(0°-30°)	123.2	2.1	B1/500		
BM	(30°-60°)	392.6	6.7	B1/1000		
BH	(60°-80°)	176.9	3.0	B1/500		G1/500
BVH	(80°-90°)	3.6	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 III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	480.7	480.7	480.7	480.7	480.7	480.7	480.7	480.7	480.7	480.7	480.7
2.5°	548.1	549.2	547.1	542.8	538.5	533.1	524.6	510.7	508.5	498.9	488.2
5°	585.6	587.7	584.5	583.5	581.3	573.8	562.0	541.7	539.6	520.3	495.7
7.5°	598.4	601.7	599.5	599.5	599.5	596.3	591.0	572.8	569.5	544.9	507.4
10°	608.1	610.2	609.2	613.4	616.6	614.5	611.3	600.6	597.4	572.8	523.5
12.5°	623.1	624.1	625.2	627.4	632.7	634.8	633.8	624.1	622.0	604.9	543.8
15°	637.0	637.0	638.1	647.7	655.2	659.5	660.5	653.0	650.9	637.0	569.5
17.5°	649.8	650.9	654.1	664.8	677.7	686.2	691.6	688.4	685.2	674.5	599.5
20°	669.1	671.2	674.5	689.4	702.3	716.2	726.9	725.8	724.8	717.3	634.8
22.5°	702.3	704.4	709.8	723.7	736.5	753.7	771.9	770.8	767.6	762.2	676.6
25°	752.6	752.6	755.8	767.6	783.7	804.0	821.1	824.3	821.1	817.9	729.1
27.5°	815.8	816.8	816.8	829.7	844.7	870.4	891.8	895.0	895.0	891.8	799.7
30°	903.6	900.3	898.2	908.9	925.0	962.4	999.9	1006.3	1003.1	1008.5	899.3
32.5°	1054.5	1049.2	1031.0	1033.1	1042.7	1094.1	1157.3	1179.8	1178.7	1188.3	1059.9
35°	1263.3	1252.6	1225.8	1203.3	1202.2	1257.9	1354.3	1438.8	1437.8	1471.0	1303.9
37.5°	1498.8	1512.7	1462.4	1423.9	1412.1	1456.0	1580.2	1763.2	1772.9	1830.7	1624.0
40°	1813.5	1822.1	1757.9	1703.3	1647.6	1663.7	1827.5	2112.2	2129.4	2193.6	1944.1
42.5°	2087.6	2096.2	2058.7	1992.3	1921.7	1891.7	2076.9	2429.1	2443.0	2531.9	2273.9
45°	2273.9	2280.3	2293.2	2299.6	2219.3	2157.2	2382.0	2754.6	2771.7	2874.5	2596.1
47.5°	2419.5	2424.8	2450.5	2514.8	2498.7	2449.5	2692.5	3092.9	3097.1	3211.7	2909.8
50°	2486.9	2499.8	2562.9	2661.4	2732.1	2746.0	3029.7	3413.0	3424.7	3533.9	3206.3
52.5°	2412.0	2416.3	2575.8	2761.0	2903.4	3044.7	3368.0	3709.5	3743.8	3825.1	3472.9
55°	2159.3	2190.4	2432.3	2757.8	3038.3	3328.4	3729.9	4029.6	4060.7	4112.0	3707.4
57.5°	1866.0	1900.3	2194.7	2619.7	3096.1	3590.7	4064.9	4370.0	4391.5	4405.4	3922.6
60°	1612.3	1644.4	1947.4	2355.2	3038.3	3775.9	4376.5	4708.3	4726.5	4689.1	4030.7
62.5°	1300.7	1332.9	1638.0	2005.2	2811.3	3813.4	4607.7	5009.2	5016.7	4915.0	3964.3
65°	980.6	1002.0	1256.8	1571.6	2414.1	3614.2	4660.2	5196.5	5189.0	4980.3	3765.2
66°	878.9	897.1	1122.0	1389.6	2207.5	3432.2	4589.5	5211.5	5204.0	4932.1	3634.6
67.5°	758.0	763.3	948.5	1136.9	1846.7	3045.8	4374.3	5143.0	5149.4	4799.3	3395.8
70°	592.0	591.0	698.0	791.1	1261.1	2166.8	3648.5	4711.6	4742.6	4298.3	2895.9
72.5°	379.0	366.1	428.2	483.9	734.4	1257.9	2660.4	3840.1	3892.6	3376.6	2157.2
75°	225.9	213.0	228.0	241.9	352.2	604.9	1564.1	2613.3	2663.6	2164.7	1283.6
77.5°	169.1	163.8	164.9	153.1	156.3	227.0	714.1	1381.0	1417.4	886.4	487.1
80°	129.5	115.6	108.1	113.5	102.8	89.9	265.5	475.3	497.8	209.8	101.7
82.5°	86.7	74.9	69.6	76.0	65.3	50.3	64.2	92.1	89.9	56.7	39.6
85°	45.0	38.5	38.5	38.5	33.2	24.6	27.8	37.5	37.5	30.0	23.6
87.5°	12.8	11.8	13.9	12.8	9.6	9.6	10.7	12.8	12.8	11.8	10.7
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°	480.7	480.7	480.7	480.7	480.7	480.7	480.7	480.7	480.7	480.7	480.7
2.5°	479.6	475.3	463.6	455.0	446.4	438.9	430.4	428.2	423.9	425.0	422.9
5°	482.8	471.0	450.7	431.4	416.5	403.6	387.5	381.1	372.6	369.3	367.2
7.5°	487.1	470.0	440.0	413.2	387.5	361.9	336.2	321.2	311.5	307.3	304.0
10°	496.7	474.3	434.6	392.9	349.0	312.6	286.9	276.2	269.8	268.7	267.6
12.5°	509.6	480.7	429.3	367.2	309.4	275.1	259.1	255.9	254.8	254.8	253.7
15°	528.9	491.4	420.7	337.2	278.3	254.8	247.3	241.9	239.8	239.8	239.8
17.5°	548.1	504.2	407.9	306.2	256.9	241.9	234.5	231.2	229.1	230.2	229.1
20°	572.8	519.2	390.8	279.4	243.0	231.2	223.7	220.5	219.5	219.5	219.5
22.5°	600.6	536.4	369.3	259.1	231.2	220.5	213.0	209.8	207.7	208.8	208.8
25°	638.1	557.8	346.9	238.7	219.5	209.8	201.3	197.0	197.0	198.1	199.1
27.5°	686.2	583.5	324.4	225.9	208.8	199.1	189.5	185.2	186.3	188.4	188.4
30°	756.9	618.8	301.9	212.0	197.0	186.3	177.7	173.4	175.6	179.9	179.9
32.5°	857.5	676.6	282.6	195.9	179.9	168.1	159.5	156.3	161.7	170.2	170.2
35°	1037.4	782.6	270.9	179.9	161.7	147.7	137.0	133.8	141.3	152.0	152.0
37.5°	1278.3	952.8	275.1	165.9	146.7	130.6	118.8	114.6	119.9	129.5	132.8
40°	1547.0	1158.4	312.6	154.2	132.8	116.7	104.9	100.6	103.8	108.1	109.2
42.5°	1815.7	1376.7	383.3	145.6	122.0	104.9	94.2	91.0	93.1	94.2	95.3
45°	2083.3	1593.0	472.1	140.2	112.4	95.3	84.6	84.6	85.6	85.6	85.6
47.5°	2337.0	1803.9	565.3	139.2	103.8	85.6	77.1	78.2	78.2	79.2	79.2
50°	2576.9	1992.3	659.5	142.4	96.4	77.1	70.7	70.7	70.7	71.7	70.7
52.5°	2777.0	2157.2	758.0	147.7	88.9	70.7	64.2	64.2	64.2	65.3	64.2
55°	2966.5	2307.1	858.6	155.2	82.4	65.3	58.9	56.7	56.7	57.8	56.7
57.5°	3120.7	2406.6	953.9	156.3	77.1	60.0	54.6	51.4	51.4	51.4	51.4
60°	3127.1	2348.8	981.7	137.0	70.7	54.6	49.2	45.0	46.0	46.0	46.0
62.5°	2922.6	2044.8	789.0	102.8	63.2	49.2	45.0	40.7	40.7	40.7	40.7
65°	2521.2	1590.9	462.5	81.4	54.6	43.9	39.6	36.4	36.4	36.4	35.3
66°	2332.8	1394.9	354.4	73.9	51.4	42.8	38.5	35.3	34.3	33.2	33.2
67.5°	2025.5	1102.7	221.6	65.3	47.1	39.6	35.3	32.1	31.0	30.0	30.0
70°	1525.6	700.1	108.1	50.3	40.7	34.3	31.0	27.8	26.8	25.7	24.6
72.5°	1070.6	410.0	56.7	38.5	33.2	30.0	26.8	23.6	22.5	21.4	21.4
75°	604.9	198.1	37.5	27.8	26.8	24.6	22.5	19.3	18.2	18.2	18.2
77.5°	229.1	68.5	25.7	20.3	21.4	19.3	16.1	16.1	15.0	16.1	15.0
80°	60.0	30.0	16.1	15.0	16.1	13.9	11.8	12.8	12.8	12.8	12.8
82.5°	32.1	17.1	9.6	10.7	9.6	9.6	7.5	8.6	9.6	8.6	9.6
85°	22.5	8.6	5.4	5.4	4.3	4.3	3.2	4.3	5.4	4.3	4.3
87.5°	11.8	3.2	3.2	3.2	3.2	2.1	1.1	0.0	1.1	1.1	1.1
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)