

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: P798994

Luminaire Tested: **ARCH1-50-730-U-T2R-HSS**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P798994
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-329-2)
Test Lab: INNOVATION CENTER
Issue Date: 4/4/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH1-50-730-U-T2R-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 1470mA LIGHTSQUARE WITH 10 LEDS AND TYPE II ROADWAY
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

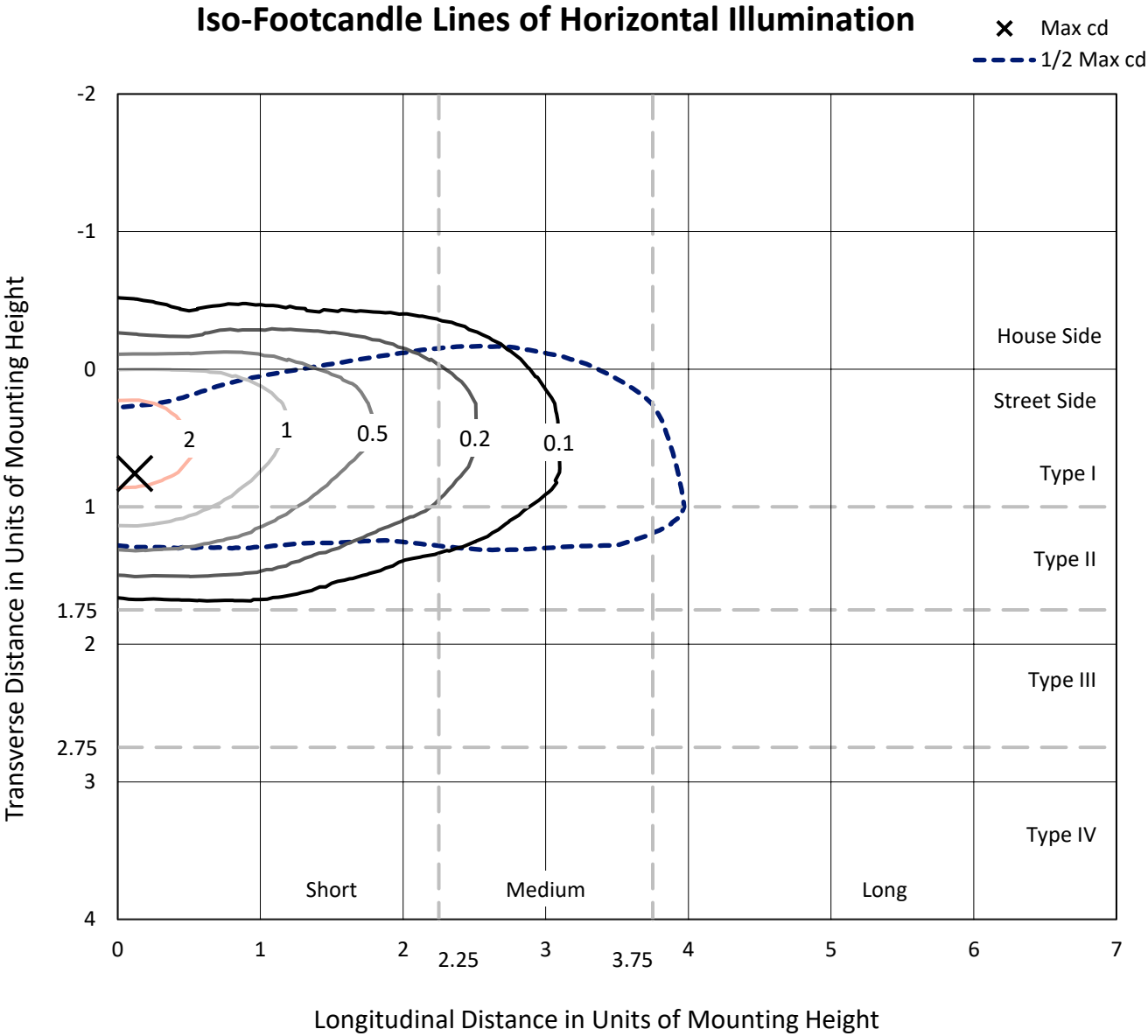
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4640 lumens
Efficiency: N/A
Efficacy: 87.5 lumens/watt
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 53
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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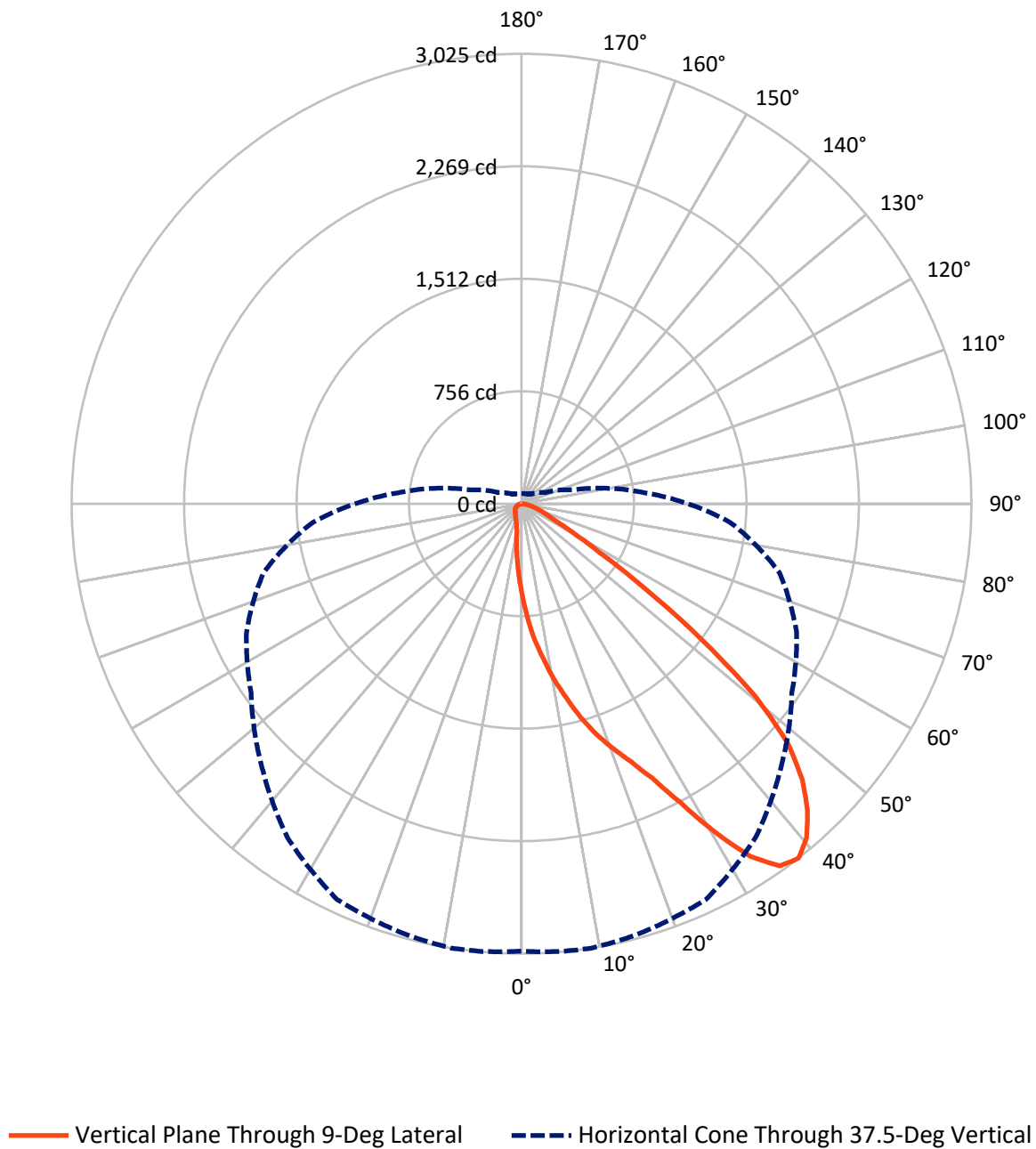


Based on 25 foot mounting height. Maximum calculated value = 2.7 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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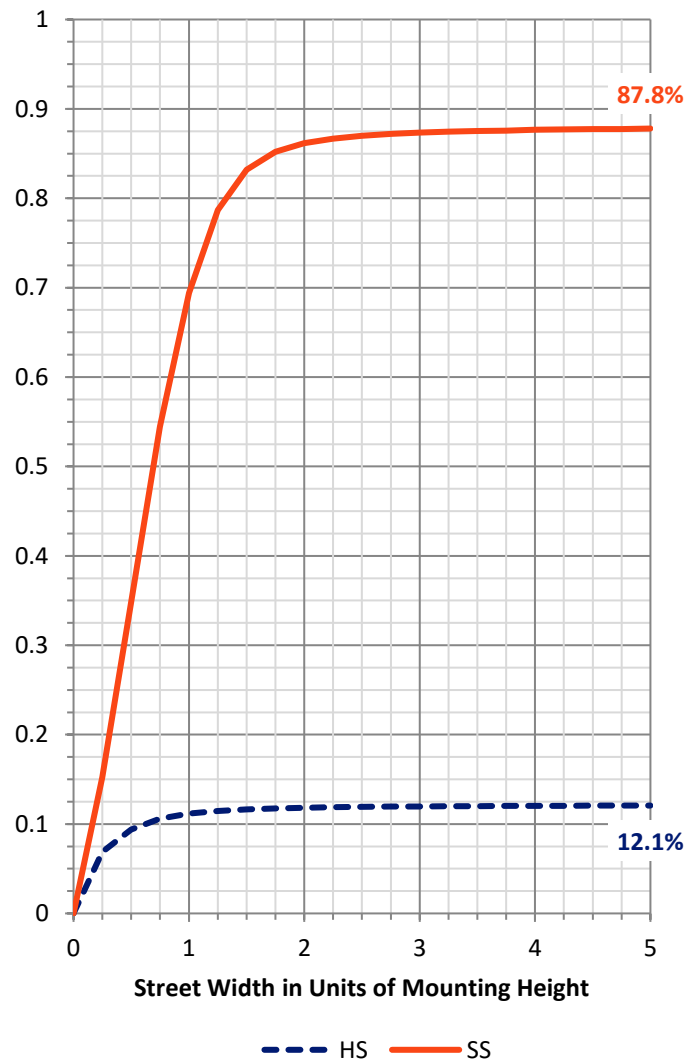
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	564.3	0.0	564.3
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	4075.7	0.0	4075.7
	% Fixture	87.8	0.0	87.8
Total	Lumens	4640.0	0.0	4640.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.7	1.3
10°-20°	214.3	4.6
20°-30°	440.3	9.5
30°-40°	778.3	16.8
40°-50°	1033.8	22.3
50°-60°	980.5	21.1
60°-70°	748.1	16.1
70°-80°	362.7	7.8
80°-90°	20.4	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°	4640.0	100.0
0°-180°	4640.0	100.0

Coefficient of Utilization



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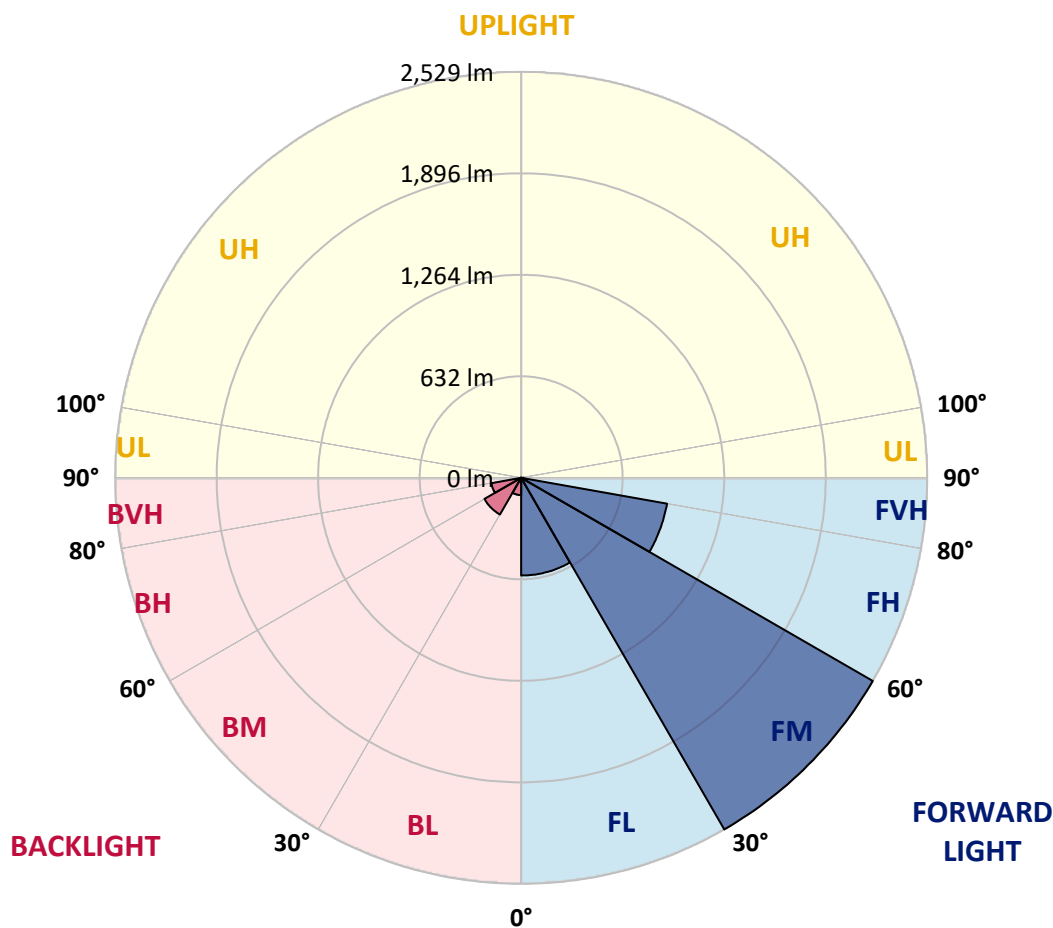
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	608.5	13.1			
FM	(30°-60°)	2528.6	54.5			
FH	(60°-80°)	922.4	19.9			G1/1800
FVH	(80°-90°)	16.2	0.3			G1/100
BL	(0°-30°)	107.7	2.3	B0/110		
BM	(30°-60°)	264.1	5.7	B1/1000		
BH	(60°-80°)	188.3	4.1	B1/500		G1/500
BVH	(80°-90°)	4.3	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-G1

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	9°	15°	25°	35°	45°	55°	65°	75°	85°
0°	613.4	613.4	613.4	613.4	613.4	613.4	613.4	613.4	613.4	613.4	613.4
2.5°	760.0	746.7	761.9	760.0	746.7	738.1	711.5	702.9	671.4	648.6	628.6
5°	916.2	902.9	916.2	912.4	893.4	872.4	828.6	800.0	743.8	694.3	649.5
7.5°	1045.7	1045.7	1051.5	1052.4	1029.6	997.2	942.9	900.0	821.0	744.8	673.4
10°	1185.8	1186.7	1199.1	1190.5	1160.0	1116.2	1047.7	993.4	898.1	798.1	696.2
12.5°	1335.3	1336.2	1340.0	1336.2	1300.0	1243.8	1161.0	1089.6	980.0	859.1	727.6
15°	1484.8	1485.8	1490.5	1483.9	1443.9	1378.1	1283.8	1196.2	1066.7	927.6	765.7
17.5°	1624.8	1626.7	1630.5	1622.0	1580.0	1502.0	1405.8	1300.0	1159.1	1001.0	808.6
20°	1750.5	1752.4	1755.3	1743.9	1702.0	1623.9	1520.0	1409.6	1253.4	1076.2	855.3
22.5°	1877.2	1879.1	1883.9	1868.6	1822.0	1732.4	1630.5	1516.2	1353.4	1159.1	909.6
25°	2039.1	2041.0	2044.8	2022.9	1959.1	1854.3	1746.7	1629.6	1461.9	1252.4	976.2
27.5°	2276.3	2274.4	2274.4	2234.4	2124.8	1988.6	1863.9	1744.8	1579.1	1352.4	1049.6
30°	2569.6	2564.8	2562.0	2507.7	2351.5	2140.1	1983.9	1852.4	1691.5	1458.1	1128.6
32.5°	2832.5	2832.5	2826.8	2769.6	2603.9	2343.9	2111.5	1957.2	1800.1	1564.8	1210.5
35°	2987.7	2994.4	2991.5	2948.7	2827.7	2562.9	2283.9	2082.9	1914.3	1676.2	1308.6
37.5°	3008.7	3022.0	3024.9	2999.1	2935.3	2742.0	2475.3	2219.1	2040.1	1796.2	1403.9
40°	2923.9	2952.5	2952.5	2948.7	2925.8	2826.8	2636.3	2377.2	2169.6	1921.0	1500.0
42.5°	2793.4	2822.9	2819.1	2833.4	2827.7	2806.8	2726.7	2524.8	2299.1	2049.6	1587.7
45°	2622.9	2653.4	2645.8	2671.5	2682.9	2705.8	2717.2	2627.7	2426.7	2189.6	1685.8
47.5°	2349.6	2401.0	2412.5	2458.2	2505.8	2577.2	2631.5	2664.8	2545.8	2340.1	1792.4
50°	1945.8	2018.2	2041.0	2137.2	2267.7	2415.3	2502.9	2619.1	2629.6	2494.4	1907.7
52.5°	1393.4	1477.2	1512.4	1670.5	1939.1	2196.3	2354.4	2518.2	2662.0	2642.0	2032.4
55°	901.0	972.4	1006.7	1155.3	1512.4	1916.2	2179.1	2387.7	2643.9	2777.2	2175.3
57.5°	555.3	596.2	619.1	746.7	1075.3	1557.2	1949.6	2267.7	2588.6	2894.4	2323.9
60°	374.3	398.1	409.5	469.5	730.5	1163.8	1634.3	2142.0	2516.3	2973.4	2459.1
62.5°	248.6	256.2	267.6	304.8	481.9	817.2	1255.3	1917.2	2462.0	2978.2	2559.1
65°	192.4	196.2	201.0	217.1	297.2	571.4	882.9	1553.4	2381.0	2877.2	2590.6
67.5°	151.4	155.2	161.0	169.5	215.2	387.6	601.0	1138.1	2215.3	2719.1	2539.1
70°	119.1	121.9	125.7	133.3	167.6	281.0	397.2	756.2	1881.0	2568.6	2377.2
72.5°	94.3	97.1	101.0	108.6	136.2	205.7	272.4	471.4	1450.5	2384.8	2065.8
75°	74.3	76.2	79.1	86.7	109.5	160.0	184.8	281.9	985.7	2048.6	1609.6
77.5°	37.1	45.7	52.4	60.0	80.0	110.5	122.9	156.2	416.2	1051.5	767.6
80°	21.9	26.7	28.6	33.3	52.4	66.7	66.7	62.9	131.4	403.8	313.3
82.5°	12.4	17.1	18.1	19.0	31.4	38.1	30.5	22.9	26.7	135.2	91.4
85°	3.8	5.7	6.7	7.6	10.5	11.4	10.5	9.5	7.6	13.3	8.6
87.5°	0.0	0.0	0.0	0.0	1.0	1.9	1.9	1.9	2.9	2.9	2.9
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°	613.4	613.4	613.4	613.4	613.4	613.4	613.4	613.4	613.4	613.4	613.4
2.5°	617.2	604.8	581.0	559.1	538.1	522.9	508.6	495.3	485.7	478.1	477.2
5°	625.7	601.0	555.3	512.4	473.3	441.0	413.3	391.4	375.2	363.8	362.9
7.5°	637.2	599.1	529.5	465.7	407.6	361.0	321.0	291.4	270.5	261.9	255.2
10°	646.7	597.2	503.8	419.1	342.9	283.8	236.2	206.7	191.4	185.7	182.9
12.5°	662.9	599.1	481.9	376.2	286.7	217.1	181.0	164.8	158.1	153.3	152.4
15°	686.7	607.6	461.0	334.3	229.5	175.2	154.3	143.8	137.1	136.2	135.2
17.5°	710.5	615.3	441.9	291.4	190.5	152.4	138.1	129.5	124.8	123.8	123.8
20°	738.1	624.8	421.0	250.5	162.9	137.1	125.7	119.1	113.3	112.4	112.4
22.5°	770.5	638.1	401.0	214.3	144.8	125.7	116.2	108.6	103.8	102.9	102.9
25°	814.3	658.1	384.8	187.6	132.4	116.2	107.6	101.0	97.1	95.2	95.2
27.5°	862.9	685.7	373.3	171.4	123.8	108.6	100.0	94.3	90.5	88.6	88.6
30°	917.2	716.2	365.7	164.8	119.1	101.9	94.3	88.6	83.8	82.9	82.9
32.5°	977.2	751.5	361.0	165.7	118.1	97.1	88.6	82.9	79.1	77.1	77.1
35°	1043.8	790.5	358.1	171.4	120.0	93.3	83.8	78.1	74.3	72.4	72.4
37.5°	1118.1	836.2	358.1	177.1	124.8	92.4	79.1	73.3	70.5	68.6	68.6
40°	1187.7	884.8	361.9	183.8	129.5	92.4	75.2	70.5	66.7	64.8	64.8
42.5°	1241.9	912.4	364.8	190.5	132.4	91.4	71.4	66.7	63.8	61.9	61.9
45°	1303.8	941.9	359.1	193.3	132.4	89.5	68.6	63.8	61.0	59.0	59.0
47.5°	1372.4	978.1	358.1	195.2	129.5	85.7	65.7	61.0	59.0	57.1	57.1
50°	1441.9	1018.1	360.0	194.3	125.7	80.0	61.9	59.0	56.2	54.3	54.3
52.5°	1521.0	1060.0	363.8	192.4	117.1	73.3	59.0	56.2	53.3	51.4	50.5
55°	1608.6	1105.7	371.4	188.6	105.7	66.7	56.2	53.3	49.5	47.6	46.7
57.5°	1709.6	1161.9	380.0	181.0	93.3	61.0	53.3	49.5	43.8	41.0	40.0
60°	1805.8	1225.8	389.5	162.9	81.0	55.2	50.5	44.8	39.0	37.1	36.2
62.5°	1896.2	1288.6	394.3	130.5	68.6	50.5	47.6	41.0	35.2	33.3	32.4
65°	1954.3	1357.2	383.8	88.6	56.2	46.7	43.8	38.1	32.4	29.5	29.5
67.5°	1958.2	1389.6	347.6	58.1	45.7	41.9	40.0	34.3	28.6	26.7	25.7
70°	1862.0	1341.0	265.7	45.7	38.1	36.2	36.2	30.5	24.8	22.9	21.9
72.5°	1641.0	1187.7	169.5	37.1	32.4	30.5	30.5	25.7	21.9	19.0	18.1
75°	1295.3	916.2	90.5	30.5	26.7	25.7	23.8	21.0	18.1	16.2	15.2
77.5°	595.3	403.8	41.9	21.9	20.0	20.0	18.1	15.2	14.3	12.4	12.4
80°	235.2	137.1	21.0	14.3	13.3	13.3	13.3	10.5	10.5	8.6	7.6
82.5°	64.8	28.6	10.5	8.6	8.6	8.6	7.6	6.7	6.7	5.7	5.7
85°	6.7	4.8	4.8	4.8	4.8	3.8	3.8	2.9	1.9	1.9	1.9
87.5°	2.9	2.9	2.9	2.9	2.9	1.9	1.0	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)