

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: P798850

Luminaire Tested: **ARCH1-40-727-U-T2R-HSS**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P798850
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: ARCH1-40-727-U-T2R-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 1220mA LIGHTSQUARE WITH 10 LEDS AND TYPE II ROADWAY
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

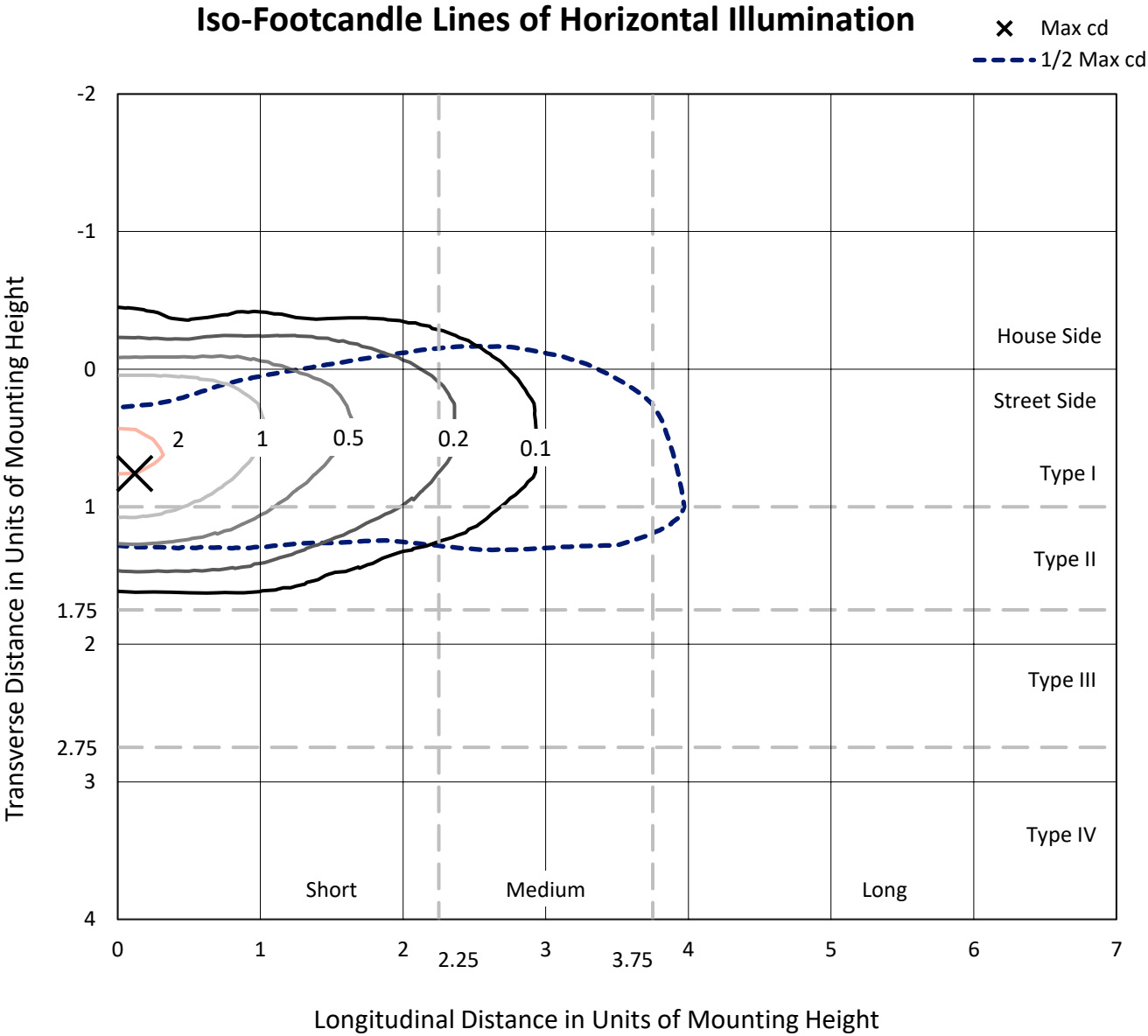
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3848 lumens
Efficiency: N/A
Efficacy: 89.5 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): 43
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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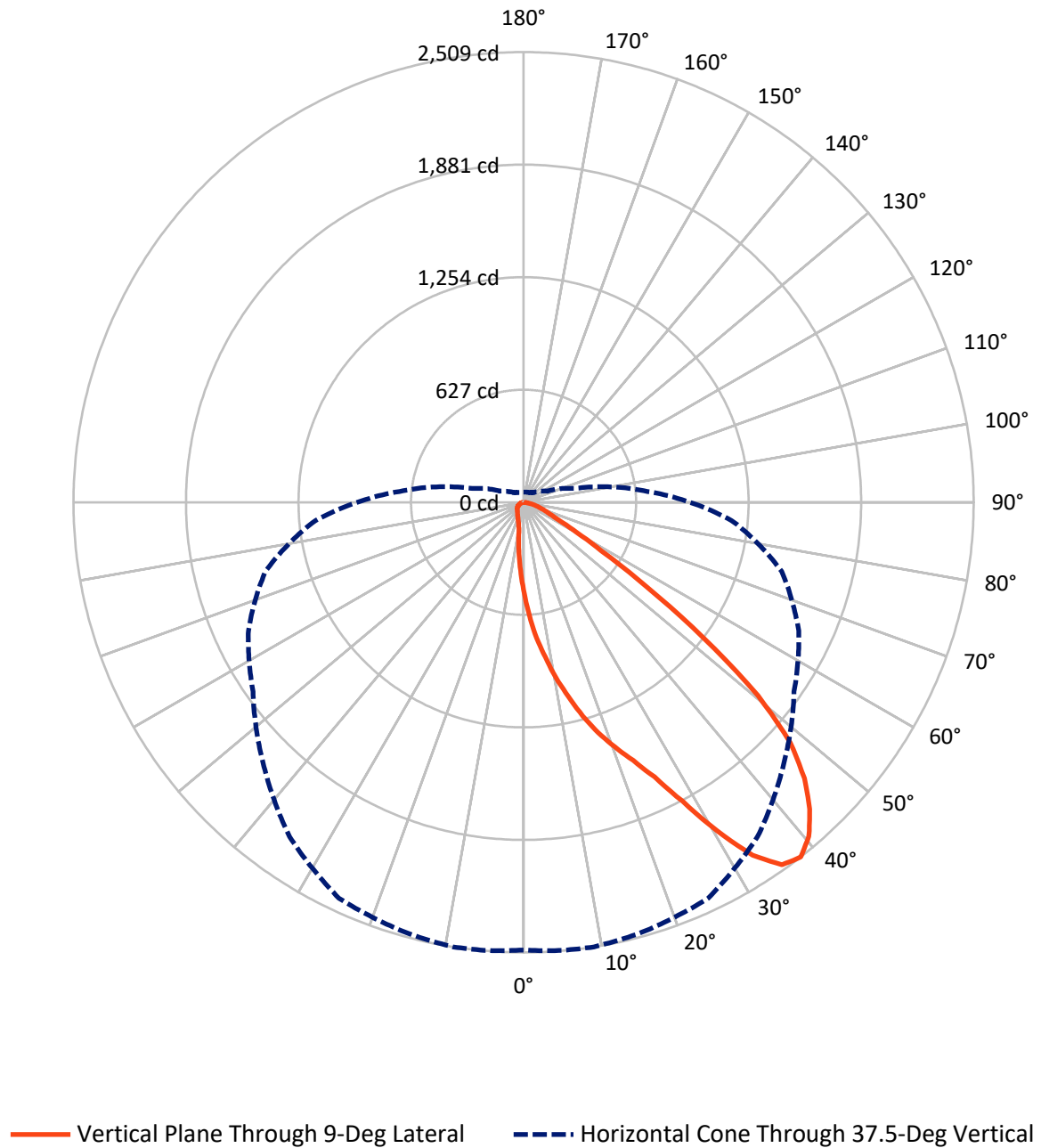


Based on 25 foot mounting height. Maximum calculated value = 2.2 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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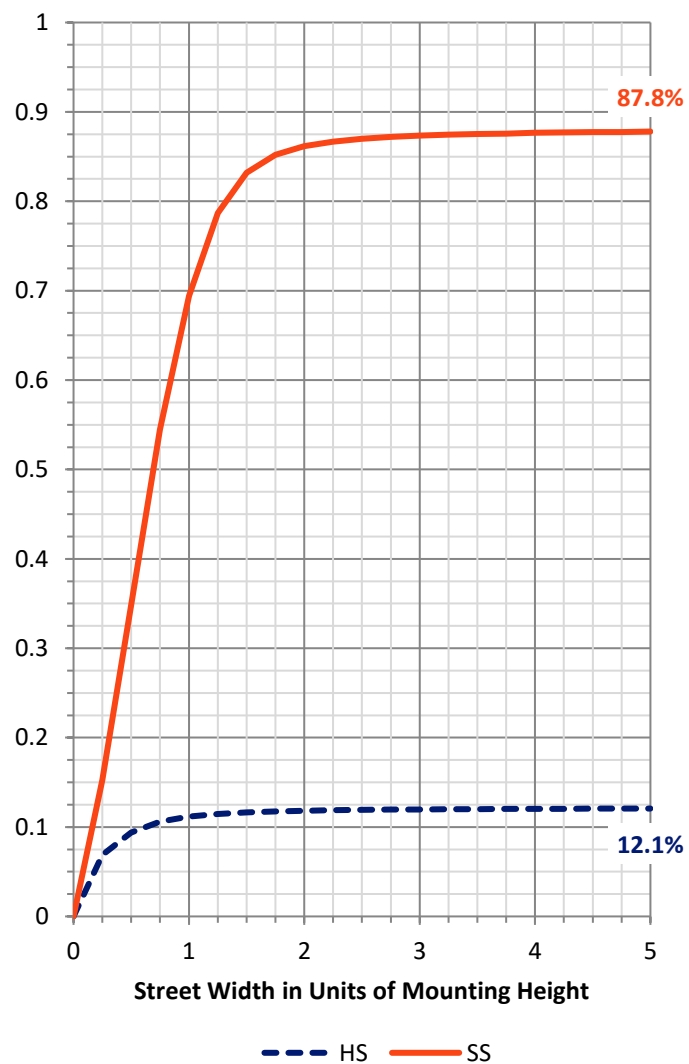
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	468.0	0.0	468.0
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	3380.0	0.0	3380.0
	% Fixture	87.8	0.0	87.8
Total	Lumens	3848.0	0.0	3848.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.1	1.3
10°-20°	177.7	4.6
20°-30°	365.1	9.5
30°-40°	645.4	16.8
40°-50°	857.4	22.3
50°-60°	813.2	21.1
60°-70°	620.4	16.1
70°-80°	300.8	7.8
80°-90°	16.9	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°	3848.0	100.0
0°-180°	3848.0	100.0

Coefficient of Utilization



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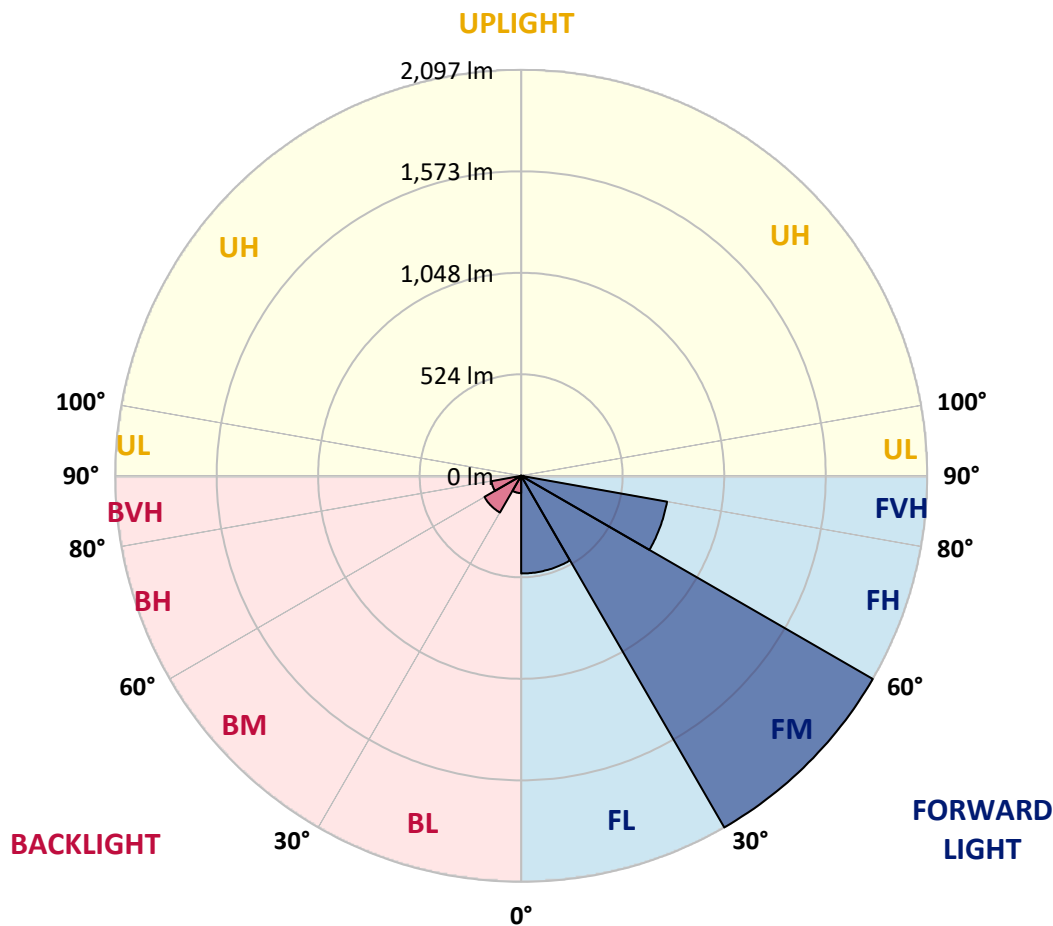
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	504.7	13.1			
FM	(30°-60°)	2097.0	54.5			
FH	(60°-80°)	765.0	19.9			G1/1800
FVH	(80°-90°)	13.4	0.3			G1/100
BL	(0°-30°)	89.3	2.3	B0/110		
BM	(30°-60°)	219.0	5.7	B0/220		
BH	(60°-80°)	156.2	4.1	B1/500		G1/500
BVH	(80°-90°)	3.5	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°	508.7	508.7	508.7	508.7	508.7	508.7	508.7	508.7	508.7	508.7	508.7
2.5°	630.3	619.2	631.9	630.3	619.2	612.1	590.0	582.9	556.8	537.9	521.3
5°	759.8	748.8	759.8	756.7	740.9	723.5	687.2	663.5	616.9	575.8	538.7
7.5°	867.2	867.2	872.0	872.8	853.8	827.0	781.9	746.4	680.8	617.7	558.4
10°	983.4	984.1	994.4	987.3	962.0	925.7	868.8	823.8	744.8	661.9	577.4
12.5°	1107.4	1108.2	1111.3	1108.2	1078.1	1031.5	962.8	903.6	812.7	712.4	603.4
15°	1231.4	1232.2	1236.1	1230.6	1197.4	1142.9	1064.7	992.0	884.6	769.3	635.0
17.5°	1347.5	1349.1	1352.2	1345.1	1310.3	1245.6	1165.8	1078.1	961.2	830.1	670.6
20°	1451.7	1453.3	1455.7	1446.2	1411.4	1346.7	1260.6	1169.0	1039.4	892.5	709.3
22.5°	1556.8	1558.4	1562.3	1549.7	1511.0	1436.7	1352.2	1257.4	1122.4	961.2	754.3
25°	1691.1	1692.6	1695.8	1677.6	1624.7	1537.8	1448.6	1351.4	1212.4	1038.6	809.6
27.5°	1887.7	1886.1	1886.1	1853.0	1762.1	1649.2	1545.7	1447.0	1309.6	1121.6	870.4
30°	2131.0	2127.0	2124.7	2079.7	1950.1	1774.8	1645.2	1536.2	1402.8	1209.2	936.0
32.5°	2349.0	2349.0	2344.3	2296.9	2159.4	1943.8	1751.1	1623.1	1492.8	1297.7	1003.9
35°	2477.7	2483.3	2480.9	2445.4	2345.0	2125.5	1894.0	1727.4	1587.6	1390.1	1085.2
37.5°	2495.1	2506.2	2508.5	2487.2	2434.3	2274.0	2052.8	1840.3	1691.8	1489.6	1164.2
40°	2424.8	2448.5	2448.5	2445.4	2426.4	2344.3	2186.3	1971.4	1799.3	1593.1	1244.0
42.5°	2316.6	2341.1	2337.9	2349.8	2345.0	2327.7	2261.3	2093.9	1906.7	1699.7	1316.7
45°	2175.2	2200.5	2194.2	2215.5	2225.0	2243.9	2253.4	2179.2	2012.5	1815.8	1398.0
47.5°	1948.5	1991.2	2000.7	2038.6	2078.1	2137.3	2182.3	2210.0	2111.3	1940.6	1486.5
50°	1613.6	1673.7	1692.6	1772.4	1880.6	2003.0	2075.7	2172.1	2180.8	2068.6	1582.1
52.5°	1155.5	1225.0	1254.3	1385.4	1608.1	1821.4	1952.5	2088.3	2207.6	2191.0	1685.5
55°	747.2	806.4	834.9	958.1	1254.3	1589.2	1807.2	1980.1	2192.6	2303.2	1804.0
57.5°	460.5	494.4	513.4	619.2	891.7	1291.4	1616.8	1880.6	2146.8	2400.3	1927.2
60°	310.4	330.2	339.6	389.4	605.8	965.2	1355.4	1776.4	2086.8	2465.9	2039.4
62.5°	206.1	212.5	221.9	252.7	399.7	677.7	1041.0	1590.0	2041.7	2469.8	2122.3
65°	159.5	162.7	166.7	180.1	246.4	473.9	732.2	1288.2	1974.6	2386.1	2148.4
67.5°	125.6	128.7	133.5	140.6	178.5	321.5	498.4	943.9	1837.2	2255.0	2105.7
70°	98.7	101.1	104.3	110.6	139.0	233.0	329.4	627.1	1559.9	2130.2	1971.4
72.5°	78.2	80.6	83.7	90.0	112.9	170.6	225.9	391.0	1202.9	1977.8	1713.2
75°	61.6	63.2	65.6	71.9	90.8	132.7	153.2	233.8	817.5	1699.0	1334.8
77.5°	30.8	37.9	43.4	49.8	66.3	91.6	101.9	129.5	345.2	872.0	636.6
80°	18.2	22.1	23.7	27.6	43.4	55.3	55.3	52.1	109.0	334.9	259.9
82.5°	10.3	14.2	15.0	15.8	26.1	31.6	25.3	19.0	22.1	112.2	75.8
85°	3.2	4.7	5.5	6.3	8.7	9.5	8.7	7.9	6.3	11.1	7.1
87.5°	0.0	0.0	0.0	0.0	0.8	1.6	1.6	1.6	2.4	2.4	2.4
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°	508.7	508.7	508.7	508.7	508.7	508.7	508.7	508.7	508.7	508.7	508.7
2.5°	511.8	501.6	481.8	463.6	446.3	433.6	421.8	410.7	402.8	396.5	395.7
5°	518.9	498.4	460.5	424.9	392.6	365.7	342.8	324.6	311.2	301.7	300.9
7.5°	528.4	496.8	439.2	386.2	338.1	299.4	266.2	241.7	224.3	217.2	211.7
10°	536.3	495.2	417.8	347.5	284.3	235.4	195.9	171.4	158.8	154.0	151.6
12.5°	549.7	496.8	399.7	312.0	237.7	180.1	150.1	136.6	131.1	127.2	126.4
15°	569.5	503.9	382.3	277.2	190.4	145.3	128.0	119.3	113.7	112.9	112.2
17.5°	589.2	510.2	366.5	241.7	158.0	126.4	114.5	107.4	103.5	102.7	102.7
20°	612.1	518.1	349.1	207.7	135.1	113.7	104.3	98.7	94.0	93.2	93.2
22.5°	639.0	529.2	332.5	177.7	120.1	104.3	96.4	90.0	86.1	85.3	85.3
25°	675.3	545.8	319.1	155.6	109.8	96.4	89.3	83.7	80.6	79.0	79.0
27.5°	715.6	568.7	309.6	142.2	102.7	90.0	82.9	78.2	75.0	73.5	73.5
30°	760.6	594.0	303.3	136.6	98.7	84.5	78.2	73.5	69.5	68.7	68.7
32.5°	810.4	623.2	299.4	137.4	97.9	80.6	73.5	68.7	65.6	64.0	64.0
35°	865.7	655.6	297.0	142.2	99.5	77.4	69.5	64.8	61.6	60.0	60.0
37.5°	927.3	693.5	297.0	146.9	103.5	76.6	65.6	60.8	58.4	56.9	56.9
40°	984.9	733.8	300.1	152.4	107.4	76.6	62.4	58.4	55.3	53.7	53.7
42.5°	1030.0	756.7	302.5	158.0	109.8	75.8	59.2	55.3	52.9	51.3	51.3
45°	1081.3	781.2	297.8	160.3	109.8	74.2	56.9	52.9	50.5	49.0	49.0
47.5°	1138.2	811.2	297.0	161.9	107.4	71.1	54.5	50.5	49.0	47.4	47.4
50°	1195.8	844.3	298.6	161.1	104.3	66.3	51.3	49.0	46.6	45.0	45.0
52.5°	1261.4	879.1	301.7	159.5	97.2	60.8	49.0	46.6	44.2	42.7	41.9
55°	1334.0	917.0	308.0	156.4	87.7	55.3	46.6	44.2	41.1	39.5	38.7
57.5°	1417.8	963.6	315.1	150.1	77.4	50.5	44.2	41.1	36.3	34.0	33.2
60°	1497.5	1016.5	323.0	135.1	67.1	45.8	41.9	37.1	32.4	30.8	30.0
62.5°	1572.6	1068.7	327.0	108.2	56.9	41.9	39.5	34.0	29.2	27.6	26.9
65°	1620.8	1125.5	318.3	73.5	46.6	38.7	36.3	31.6	26.9	24.5	24.5
67.5°	1623.9	1152.4	288.3	48.2	37.9	34.8	33.2	28.4	23.7	22.1	21.3
70°	1544.1	1112.1	220.4	37.9	31.6	30.0	30.0	25.3	20.5	19.0	18.2
72.5°	1360.9	984.9	140.6	30.8	26.9	25.3	25.3	21.3	18.2	15.8	15.0
75°	1074.2	759.8	75.0	25.3	22.1	21.3	19.7	17.4	15.0	13.4	12.6
77.5°	493.7	334.9	34.8	18.2	16.6	16.6	15.0	12.6	11.8	10.3	10.3
80°	195.1	113.7	17.4	11.8	11.1	11.1	11.1	8.7	8.7	7.1	6.3
82.5°	53.7	23.7	8.7	7.1	7.1	7.1	6.3	5.5	5.5	4.7	4.7
85°	5.5	3.9	3.9	3.9	3.9	3.2	3.2	2.4	1.6	1.6	1.6
87.5°	2.4	2.4	2.4	2.4	2.4	1.6	0.8	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)