

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: P798918

Luminaire Tested: **ARCH1-40-750-U-T3-HSS**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P798918
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-26)
Test Lab: INNOVATION CENTER
Issue Date: 4/4/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH1-40-750-U-T3-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 5000K, 1220mA LIGHTSQUARE WITH 10 LEDS AND TYPE III OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4098 lumens
Efficiency: N/A
Efficacy: 95.3 lumens/watt
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - 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



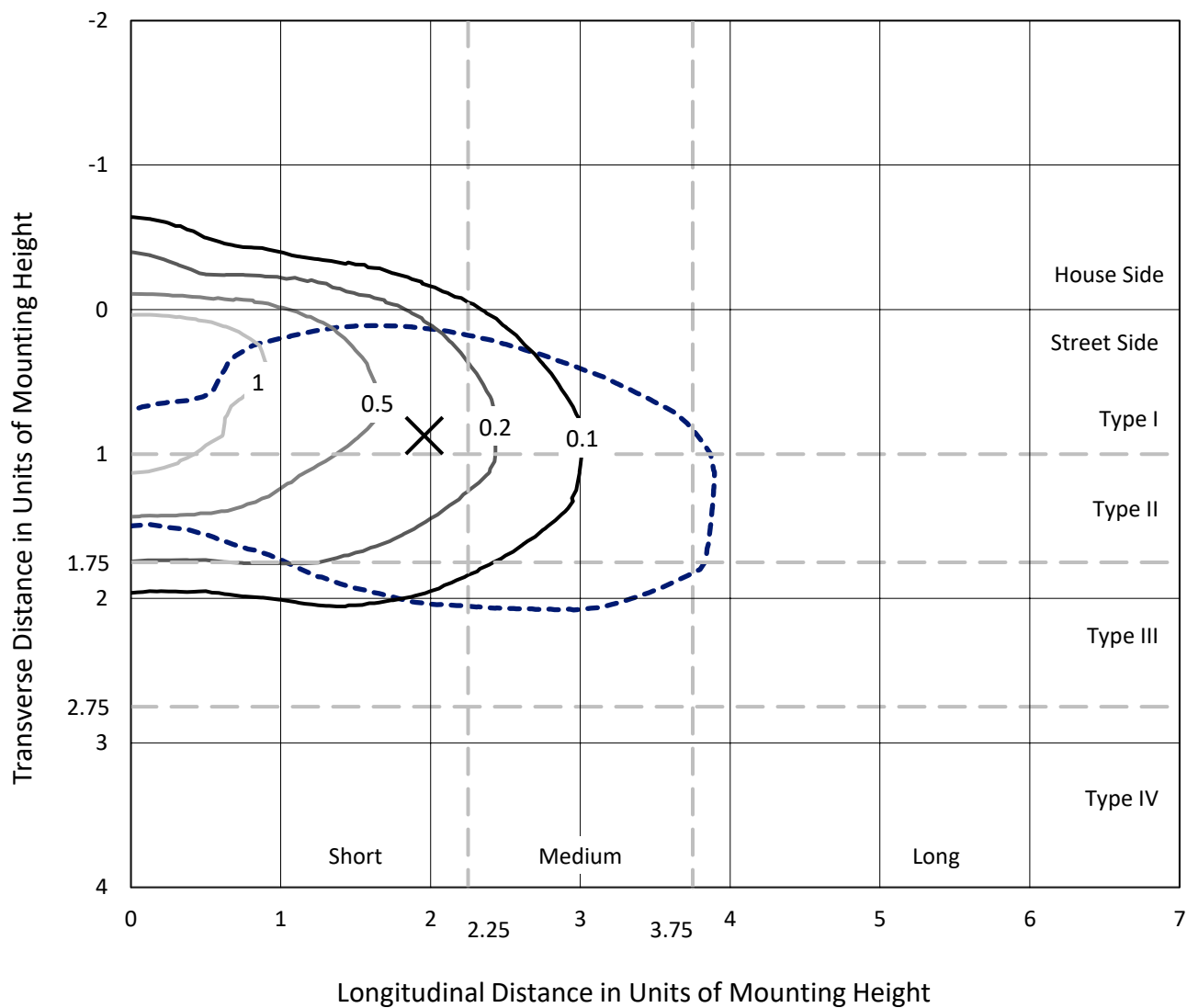
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Iso-Footcandle Lines of Horizontal Illumination

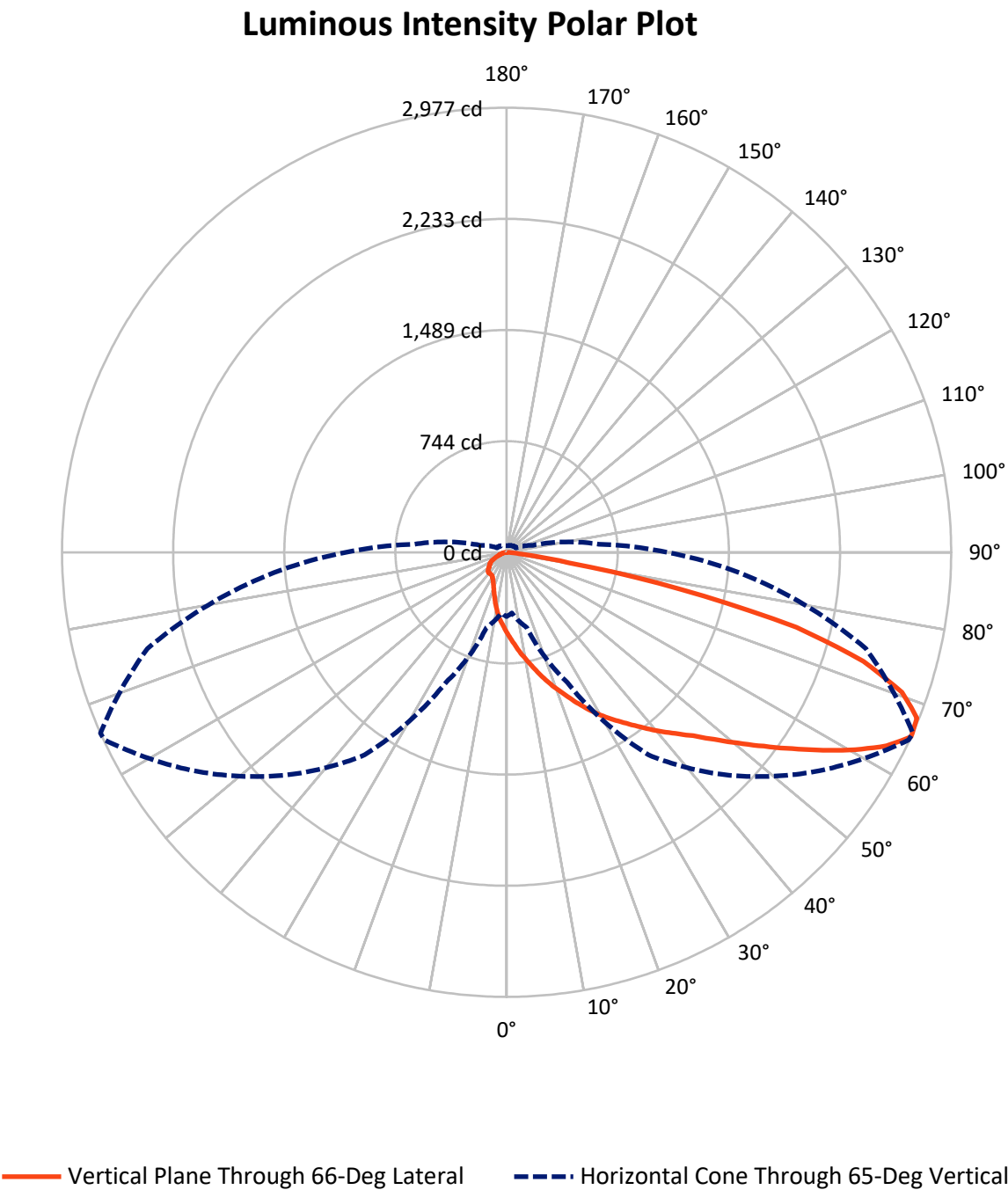
✕ Max cd

--- 1/2 Max cd



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

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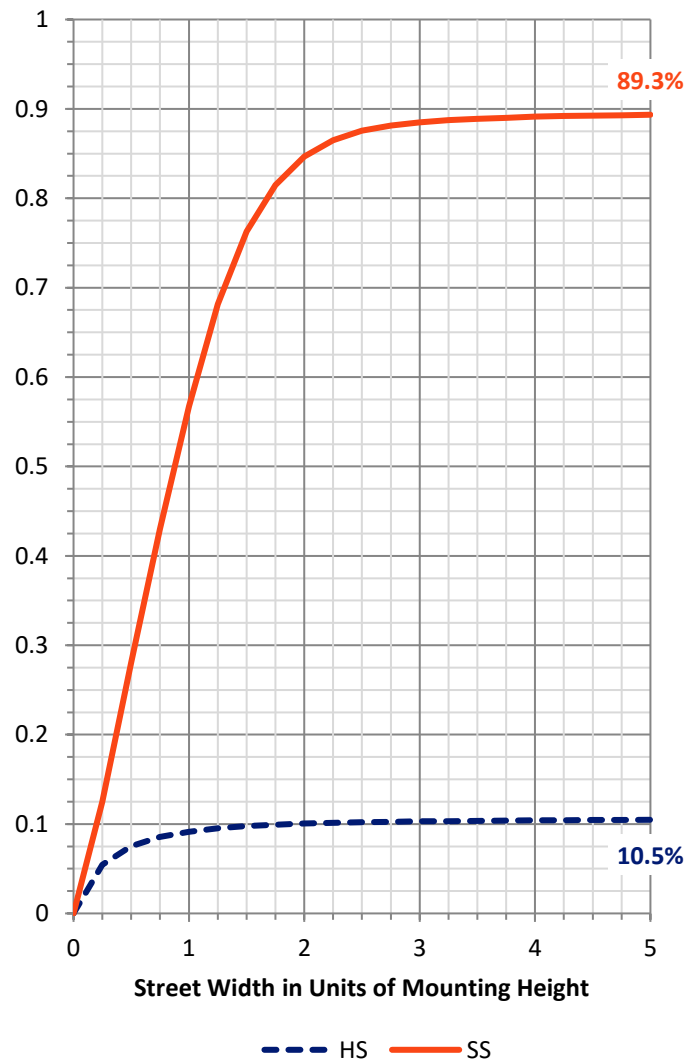
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	433.4	0.0	433.4
	% Fixture	10.6	0.0	10.6
Street Side	Lumens	3664.5	0.0	3664.5
	% Fixture	89.4	0.0	89.4
Total	Lumens	4098.0	0.0	4098.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.5	1.3
10°-20°	174.5	4.3
20°-30°	315.7	7.7
30°-40°	493.6	12.0
40°-50°	748.8	18.3
50°-60°	951.4	23.2
60°-70°	889.0	21.7
70°-80°	441.8	10.8
80°-90°	29.7	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°	4098.0	100.0
0°-180°	4098.0	100.0

Coefficient of Utilization



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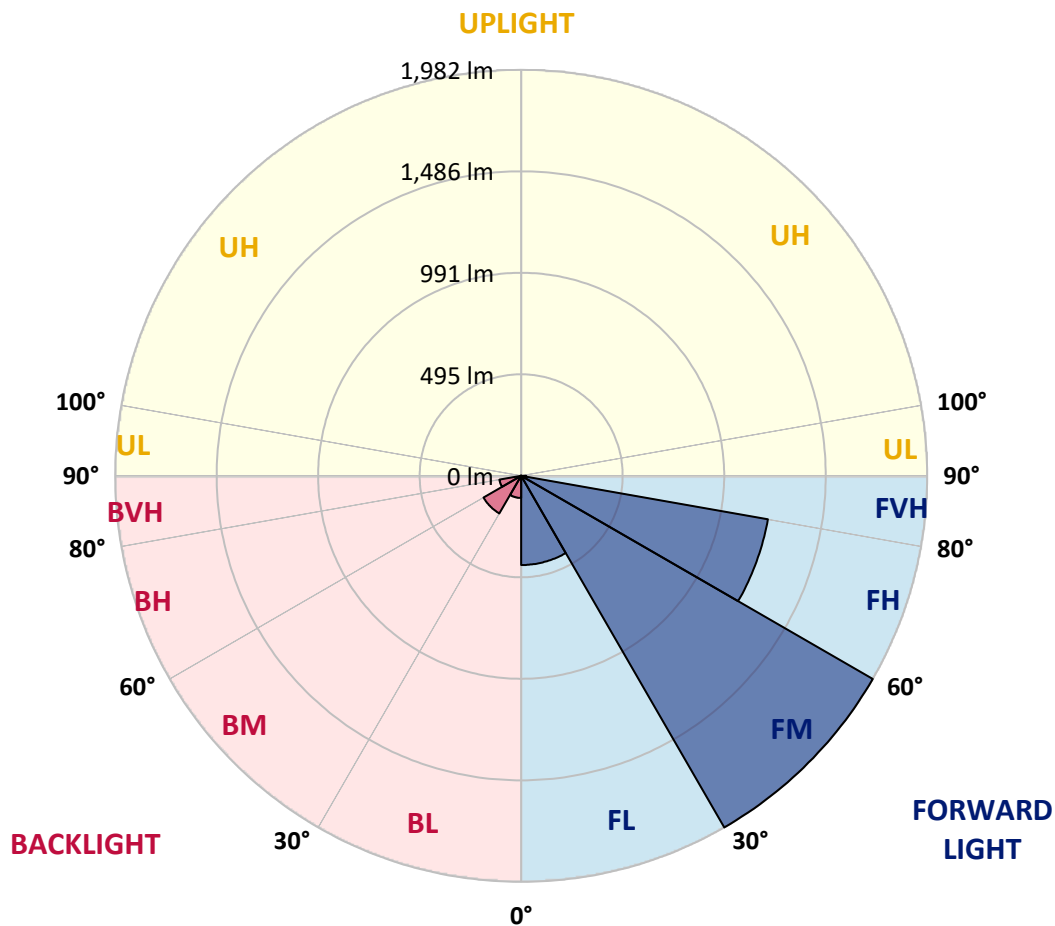
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	435.4	10.6			
FM	(30°-60°)	1981.8	48.4			
FH	(60°-80°)	1222.9	29.8			G1/1800
FVH	(80°-90°)	24.4	0.6			G1/100
BL	(0°-30°)	108.3	2.6	B0/110		
BM	(30°-60°)	212.0	5.2	B0/220		
BH	(60°-80°)	107.9	2.6	B0/110		G0/110
BVH	(80°-90°)	5.3	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	542.3	542.3	542.3	542.3	542.3	542.3	542.3	542.3	542.3	542.3	542.3
2.5°	633.5	638.6	641.2	642.1	622.3	613.7	605.1	585.3	581.0	569.9	555.2
5°	745.2	752.1	750.3	746.9	722.8	695.3	673.0	636.0	630.0	603.4	570.7
7.5°	855.2	861.2	859.5	846.6	820.0	781.3	744.3	690.2	681.6	638.6	586.2
10°	947.2	952.3	951.5	938.6	906.8	859.5	814.8	742.6	732.3	671.3	599.1
12.5°	1022.8	1029.7	1028.8	1020.2	991.9	940.3	889.6	802.8	789.9	710.8	617.1
15°	1082.1	1090.7	1090.7	1087.3	1067.5	1024.5	966.9	869.0	853.5	756.4	639.5
17.5°	1118.2	1125.1	1131.1	1137.1	1123.4	1090.7	1038.3	935.1	918.8	801.1	662.7
20°	1137.1	1144.0	1148.3	1161.2	1163.8	1147.4	1106.2	1000.5	983.3	851.8	689.3
22.5°	1168.1	1174.1	1174.9	1186.1	1191.3	1195.6	1169.8	1064.9	1051.2	907.6	719.4
25°	1219.6	1226.5	1223.9	1229.1	1230.0	1235.1	1232.5	1138.8	1125.1	971.2	755.5
27.5°	1285.8	1294.4	1292.7	1287.5	1279.8	1275.5	1286.7	1213.6	1200.7	1034.8	792.5
30°	1357.2	1367.5	1364.9	1354.6	1334.0	1315.9	1331.4	1284.1	1272.1	1100.2	833.7
32.5°	1429.4	1441.4	1440.5	1423.3	1388.1	1357.2	1380.4	1350.3	1341.7	1170.6	878.4
35°	1476.6	1492.1	1490.4	1480.1	1434.5	1407.9	1436.2	1418.2	1412.2	1256.6	942.9
37.5°	1553.1	1569.5	1554.8	1529.1	1476.6	1462.9	1497.3	1494.7	1490.4	1347.7	1010.8
40°	1738.8	1762.8	1724.2	1618.4	1532.5	1520.5	1569.5	1579.8	1575.5	1438.0	1071.8
42.5°	1933.0	1969.1	1909.0	1762.8	1633.9	1590.1	1648.5	1663.1	1658.0	1515.3	1126.8
45°	2050.8	2066.3	2006.1	1892.6	1813.6	1674.3	1732.8	1756.8	1752.5	1608.1	1197.3
47.5°	2147.0	2141.0	2072.3	1995.8	2010.4	1792.9	1828.2	1875.4	1872.0	1710.4	1274.6
50°	2167.7	2153.9	2126.4	2078.3	2117.0	1913.3	1928.7	2010.4	2006.9	1823.9	1352.9
52.5°	2022.4	2004.4	2079.1	2119.5	2106.6	2000.9	2039.6	2158.2	2156.5	1946.8	1427.6
55°	1659.7	1645.1	1846.2	2055.1	2095.5	2062.8	2162.5	2312.1	2321.5	2077.4	1495.5
57.5°	1305.6	1290.1	1487.8	1893.5	2054.2	2119.5	2306.1	2488.3	2500.3	2219.2	1560.0
60°	1040.9	1017.7	1168.9	1639.1	1976.9	2163.4	2444.4	2681.7	2683.4	2349.0	1599.5
62.5°	707.4	681.6	849.2	1316.8	1847.1	2170.3	2551.0	2848.4	2855.3	2446.2	1606.4
65°	429.8	408.3	521.7	961.8	1655.4	2111.8	2552.7	2971.3	2977.3	2490.8	1565.2
67.5°	249.3	240.7	298.2	599.1	1337.4	1954.5	2445.3	2952.4	2963.6	2471.9	1471.5
70°	145.3	144.4	165.9	296.5	943.7	1642.5	2205.5	2793.4	2809.7	2373.1	1327.9
72.5°	106.6	108.3	116.9	159.0	546.6	1182.7	1867.7	2473.7	2498.6	2179.7	1123.4
75°	84.2	85.1	92.8	108.3	287.1	668.7	1399.3	1985.5	2005.2	1835.0	877.6
77.5°	62.7	64.5	70.5	76.5	133.2	306.8	787.3	1223.1	1190.4	1007.3	423.7
80°	45.6	49.9	52.4	55.0	70.5	118.6	236.4	426.3	422.9	440.1	200.3
82.5°	29.2	32.7	35.2	37.0	42.1	56.7	70.5	95.4	103.1	171.0	79.9
85°	12.9	14.6	16.3	19.8	18.0	19.8	29.2	18.9	16.3	25.8	14.6
87.5°	0.0	0.0	2.6	4.3	3.4	1.7	5.2	3.4	2.6	2.6	2.6
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°	542.3	542.3	542.3	542.3	542.3	542.3	542.3	542.3	542.3	542.3	542.3
2.5°	547.5	538.1	518.3	499.4	488.2	473.6	460.7	448.7	447.8	444.4	438.3
5°	554.4	536.3	499.4	464.1	437.5	409.1	385.1	366.1	359.3	354.1	347.2
7.5°	561.3	532.9	477.9	426.3	384.2	344.7	316.3	290.5	282.8	275.9	271.6
10°	563.8	526.9	453.0	384.2	329.2	287.1	257.0	238.1	231.2	227.8	225.2
12.5°	571.6	523.4	429.8	344.7	281.1	242.4	220.9	209.7	207.1	204.6	202.0
15°	581.9	523.4	406.5	306.0	243.2	212.3	199.4	191.7	190.0	189.1	187.4
17.5°	593.1	523.4	384.2	273.3	215.7	192.5	183.1	178.8	177.9	177.1	176.2
20°	608.5	524.3	360.1	245.0	196.0	177.9	170.2	165.0	164.2	163.3	163.3
22.5°	624.0	526.0	336.9	223.5	183.1	166.7	157.3	152.1	150.4	150.4	150.4
25°	643.8	531.2	315.4	205.4	171.9	156.4	144.4	140.1	139.2	139.2	138.4
27.5°	667.0	537.2	296.5	191.7	160.7	144.4	132.4	128.1	126.3	126.3	125.5
30°	691.9	543.2	281.1	181.4	149.6	132.4	121.2	116.0	114.3	115.2	114.3
32.5°	719.4	551.8	269.0	174.5	139.2	122.0	111.7	105.7	104.9	104.9	104.0
35°	765.8	575.9	267.3	171.0	130.6	114.3	104.0	98.0	97.1	97.1	96.3
37.5°	815.7	603.4	275.0	169.3	123.8	107.4	98.0	92.0	91.1	91.1	91.1
40°	857.8	624.0	283.6	169.3	119.5	101.4	92.8	87.7	87.7	87.7	87.7
42.5°	886.1	625.7	281.9	169.3	116.0	97.1	89.4	84.2	84.2	85.1	84.2
45°	928.3	634.3	275.0	166.7	113.5	93.7	86.0	81.7	80.8	81.7	81.7
47.5°	978.1	649.8	268.2	156.4	112.6	90.2	83.4	78.2	77.4	78.2	77.4
50°	1025.4	663.5	264.7	142.7	110.9	86.8	79.9	74.8	73.9	74.8	73.9
52.5°	1064.9	669.6	258.7	133.2	106.6	83.4	76.5	71.3	69.6	70.5	70.5
55°	1096.7	667.8	250.1	125.5	98.8	79.9	72.2	67.9	65.3	65.3	64.5
57.5°	1126.0	668.7	242.4	117.8	90.2	74.8	68.8	63.6	60.2	59.3	58.4
60°	1137.1	664.4	228.6	107.4	81.7	70.5	64.5	58.4	55.0	54.1	53.3
62.5°	1121.7	648.9	210.6	89.4	73.9	65.3	60.2	54.1	50.7	49.9	49.0
65°	1077.8	619.7	183.1	70.5	67.0	59.3	55.0	50.7	46.4	44.7	43.8
67.5°	1003.0	577.6	148.7	56.7	59.3	54.1	51.6	46.4	41.3	39.5	38.7
70°	896.5	521.7	111.7	48.1	52.4	48.1	46.4	41.3	37.0	35.2	34.4
72.5°	746.9	431.5	78.2	41.3	45.6	42.1	40.4	37.0	32.7	30.1	30.1
75°	564.7	309.4	51.6	35.2	37.8	36.1	33.5	30.9	28.4	26.6	25.8
77.5°	243.2	120.3	31.8	26.6	30.9	30.1	26.6	24.9	24.1	22.3	22.3
80°	104.9	49.0	19.8	19.8	22.3	21.5	20.6	18.9	18.9	18.0	17.2
82.5°	38.7	19.8	12.0	14.6	16.3	14.6	14.6	14.6	14.6	13.8	13.8
85°	9.5	6.0	6.0	8.6	9.5	8.6	9.5	8.6	8.6	8.6	7.7
87.5°	2.6	2.6	3.4	3.4	3.4	3.4	3.4	2.6	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)