

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: P799506

Luminaire Tested: **ARCH2-30-730-U-T2R-HSS**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P799506
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: ARCH2-30-730-U-T2R-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 260mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3630 lumens
Efficiency: N/A
Efficacy: 105.5 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 34.4
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

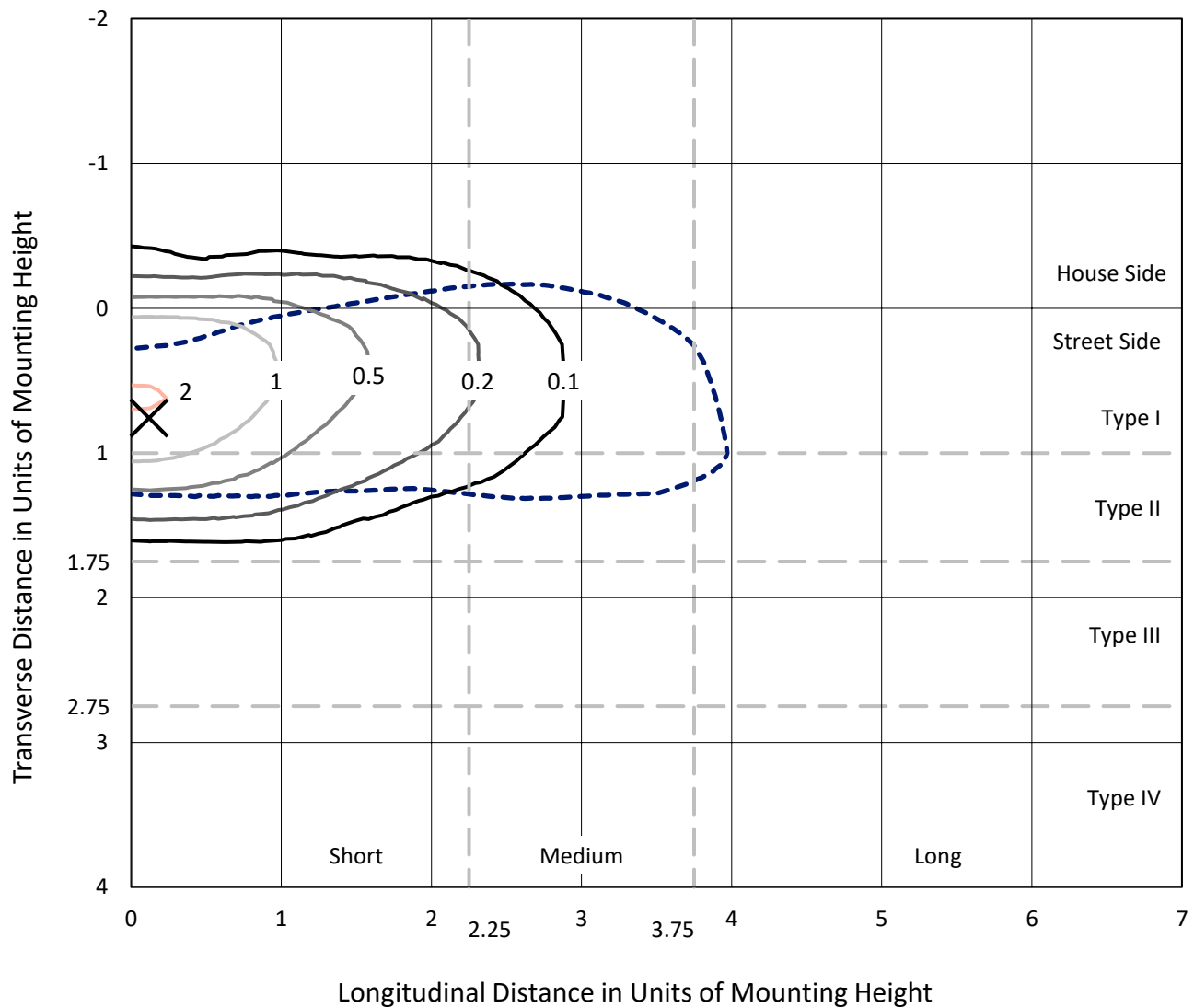


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

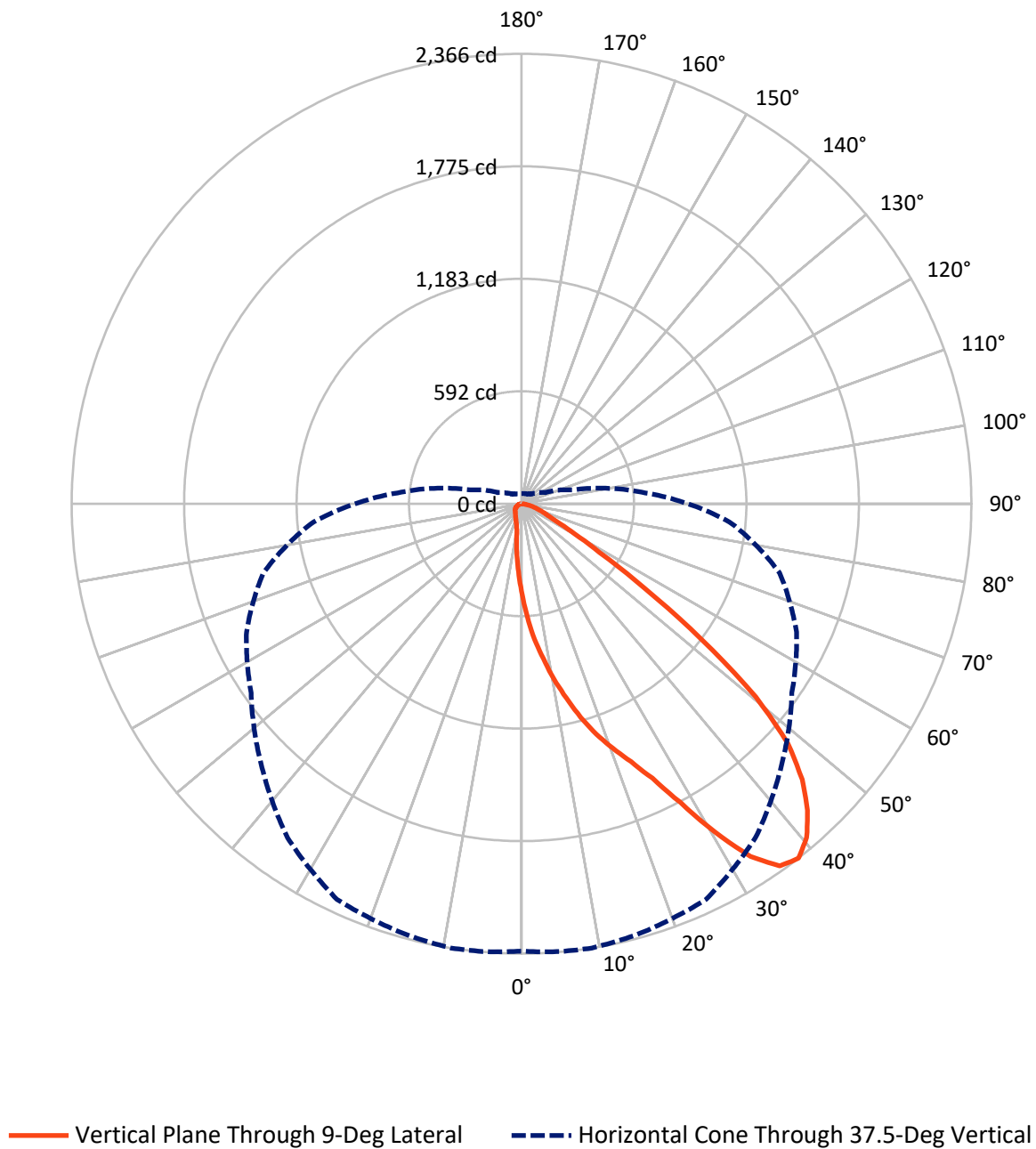


Based on 25 foot mounting height. Maximum calculated value = 2.1 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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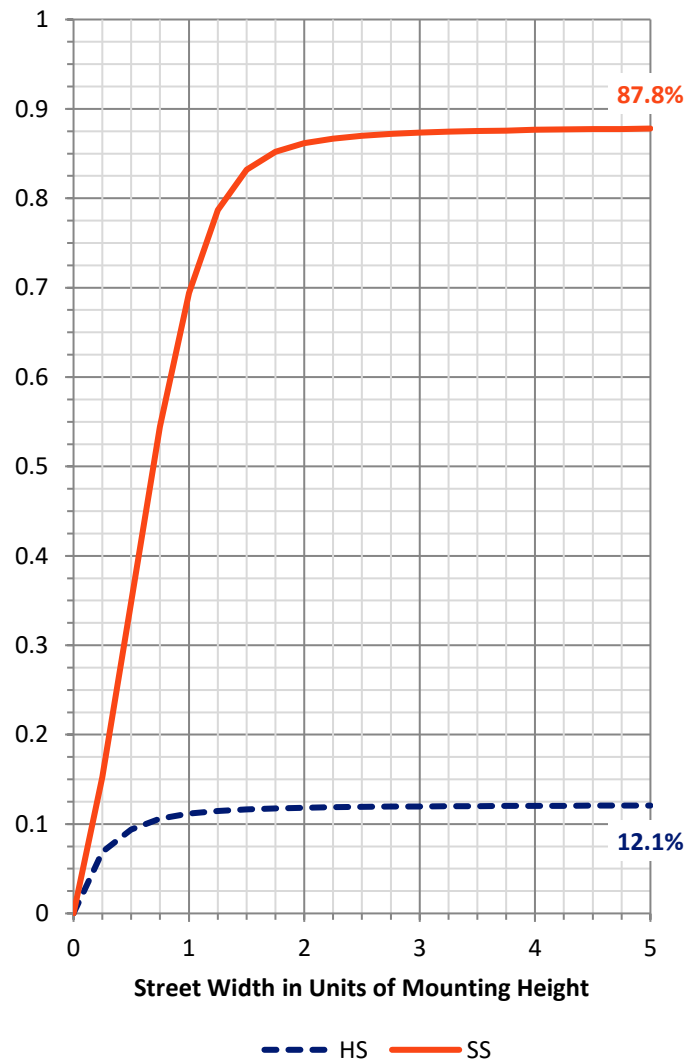
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	441.5	0.0	441.5
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	3188.5	0.0	3188.5
	% Fixture	87.8	0.0	87.8
Total	Lumens	3630.0	0.0	3630.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.2	1.3
10°-20°	167.6	4.6
20°-30°	344.5	9.5
30°-40°	608.8	16.8
40°-50°	808.8	22.3
50°-60°	767.1	21.1
60°-70°	585.2	16.1
70°-80°	283.7	7.8
80°-90°	16.0	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°	3630.0	100.0
0°-180°	3630.0	100.0

Coefficient of Utilization



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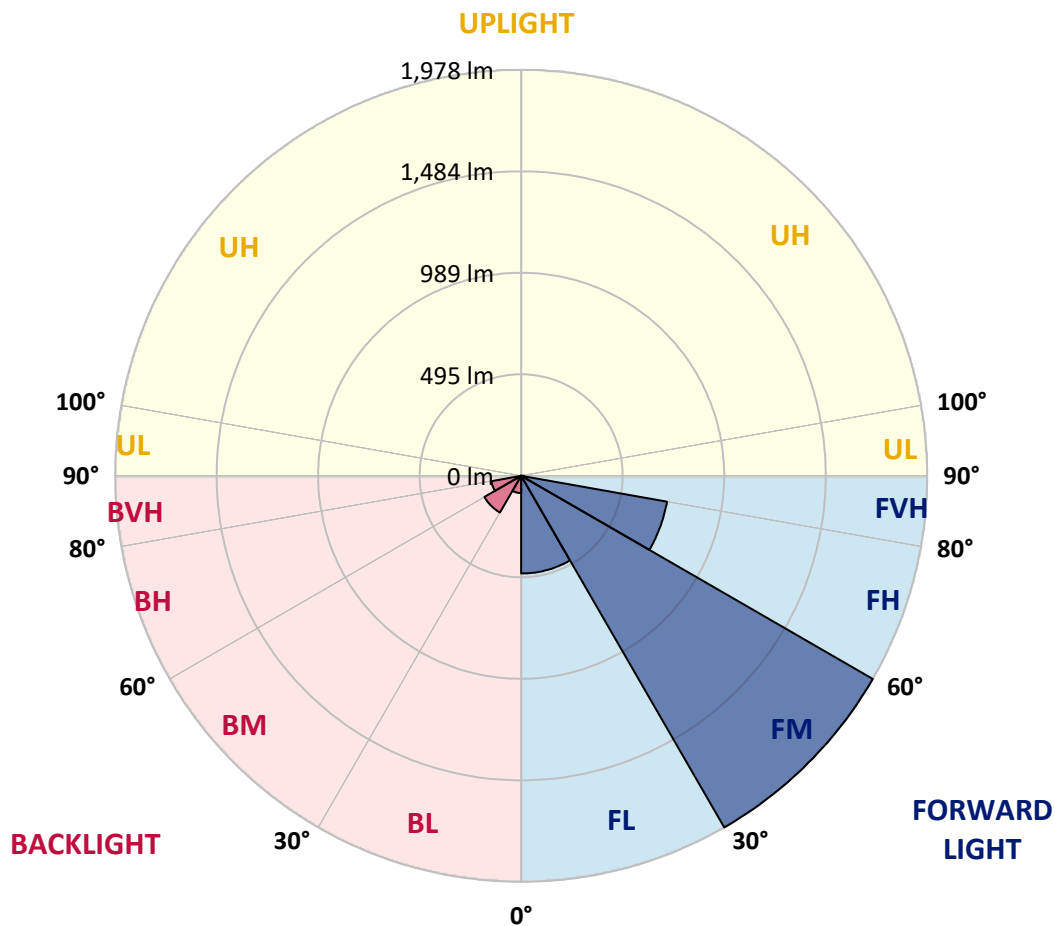
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	476.1	13.1			
FM	(30°-60°)	1978.2	54.5			
FH	(60°-80°)	721.6	19.9			G1/1800
FVH	(80°-90°)	12.6	0.3			G1/100
BL	(0°-30°)	84.3	2.3	B0/110		
BM	(30°-60°)	206.6	5.7	B0/220		
BH	(60°-80°)	147.3	4.1	B1/500		G1/500
BVH	(80°-90°)	3.3	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°	479.8	479.8	479.8	479.8	479.8	479.8	479.8	479.8	479.8	479.8	479.8
2.5°	594.6	584.2	596.1	594.6	584.2	577.4	556.6	549.9	525.3	507.4	491.8
5°	716.8	706.4	716.8	713.8	698.9	682.5	648.2	625.9	581.9	543.2	508.2
7.5°	818.1	818.1	822.6	823.3	805.4	780.1	737.6	704.1	642.3	582.7	526.8
10°	927.6	928.4	938.1	931.4	907.5	873.3	819.6	777.1	702.6	624.4	544.7
12.5°	1044.6	1045.4	1048.4	1045.4	1017.1	973.1	908.3	852.4	766.7	672.1	569.3
15°	1161.6	1162.4	1166.1	1160.9	1129.6	1078.2	1004.4	935.8	834.5	725.7	599.1
17.5°	1271.1	1272.6	1275.6	1268.9	1236.1	1175.0	1099.8	1017.1	906.8	783.1	632.6
20°	1369.5	1371.0	1373.2	1364.3	1331.5	1270.4	1189.2	1102.7	980.5	842.0	669.1
22.5°	1468.6	1470.1	1473.8	1461.9	1425.4	1355.3	1275.6	1186.2	1058.8	906.8	711.6
25°	1595.3	1596.7	1599.7	1582.6	1532.7	1450.7	1366.5	1274.9	1143.7	979.8	763.7
27.5°	1780.8	1779.3	1779.3	1748.0	1662.3	1555.8	1458.2	1365.0	1235.4	1058.0	821.1
30°	2010.3	2006.5	2004.3	1961.8	1839.6	1674.2	1552.0	1449.2	1323.3	1140.7	882.9
32.5°	2215.9	2215.9	2211.4	2166.7	2037.1	1833.7	1651.9	1531.2	1408.2	1224.2	947.0
35°	2337.4	2342.6	2340.3	2306.8	2212.2	2005.1	1786.7	1629.5	1497.6	1311.4	1023.8
37.5°	2353.8	2364.2	2366.4	2346.3	2296.4	2145.1	1936.5	1736.1	1596.0	1405.3	1098.3
40°	2287.4	2309.8	2309.8	2306.8	2288.9	2211.4	2062.4	1859.8	1697.3	1502.9	1173.5
42.5°	2185.4	2208.5	2205.5	2216.7	2212.2	2195.8	2133.2	1975.3	1798.7	1603.4	1242.1
45°	2052.0	2075.8	2069.9	2090.0	2098.9	2116.8	2125.8	2055.7	1898.5	1713.0	1318.8
47.5°	1838.2	1878.4	1887.3	1923.1	1960.3	2016.2	2058.7	2084.8	1991.6	1830.7	1402.3
50°	1522.2	1578.9	1596.7	1672.0	1774.1	1889.6	1958.1	2049.0	2057.2	1951.4	1492.4
52.5°	1090.1	1155.6	1183.2	1306.9	1517.0	1718.2	1841.9	1970.0	2082.5	2066.9	1590.0
55°	704.9	760.7	787.6	903.8	1183.2	1499.1	1704.8	1868.0	2068.4	2172.7	1701.8
57.5°	434.4	466.4	484.3	584.2	841.2	1218.2	1525.2	1774.1	2025.2	2264.3	1818.0
60°	292.8	311.5	320.4	367.3	571.5	910.5	1278.6	1675.7	1968.5	2326.2	1923.8
62.5°	194.5	200.4	209.4	238.4	377.0	639.3	982.0	1499.9	1926.1	2329.9	2002.1
65°	150.5	153.5	157.2	169.9	232.5	447.1	690.7	1215.3	1862.7	2250.9	2026.7
67.5°	118.5	121.5	125.9	132.6	168.4	303.3	470.2	890.4	1733.1	2127.3	1986.4
70°	93.1	95.4	98.4	104.3	131.1	219.8	310.7	591.6	1471.6	2009.5	1859.8
72.5°	73.8	76.0	79.0	84.9	106.5	160.9	213.1	368.8	1134.8	1865.7	1616.1
75°	58.1	59.6	61.8	67.8	85.7	125.2	144.5	220.5	771.2	1602.7	1259.2
77.5°	29.1	35.8	41.0	46.9	62.6	86.4	96.1	122.2	325.6	822.6	600.5
80°	17.1	20.9	22.4	26.1	41.0	52.2	52.2	49.2	102.8	315.9	245.1
82.5°	9.7	13.4	14.2	14.9	24.6	29.8	23.8	17.9	20.9	105.8	71.5
85°	3.0	4.5	5.2	6.0	8.2	8.9	8.2	7.5	6.0	10.4	6.7
87.5°	0.0	0.0	0.0	0.0	0.7	1.5	1.5	1.5	2.2	2.2	2.2
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°	479.8	479.8	479.8	479.8	479.8	479.8	479.8	479.8	479.8	479.8	479.8
2.5°	482.8	473.1	454.5	437.4	421.0	409.1	397.9	387.5	380.0	374.0	373.3
5°	489.5	470.2	434.4	400.9	370.3	345.0	323.4	306.2	293.6	284.6	283.9
7.5°	498.5	468.7	414.3	364.4	318.9	282.4	251.1	228.0	211.6	204.9	199.7
10°	505.9	467.2	394.2	327.8	268.2	222.0	184.8	161.7	149.8	145.3	143.1
12.5°	518.6	468.7	377.0	294.3	224.3	169.9	141.6	128.9	123.7	120.0	119.2
15°	537.2	475.4	360.6	261.5	179.6	137.1	120.7	112.5	107.3	106.5	105.8
17.5°	555.8	481.3	345.7	228.0	149.0	119.2	108.0	101.3	97.6	96.9	96.9
20°	577.4	488.8	329.3	196.0	127.4	107.3	98.4	93.1	88.7	87.9	87.9
22.5°	602.8	499.2	313.7	167.6	113.3	98.4	90.9	84.9	81.2	80.5	80.5
25°	637.1	514.9	301.0	146.8	103.6	90.9	84.2	79.0	76.0	74.5	74.5
27.5°	675.1	536.5	292.1	134.1	96.9	84.9	78.2	73.8	70.8	69.3	69.3
30°	717.5	560.3	286.1	128.9	93.1	79.7	73.8	69.3	65.6	64.8	64.8
32.5°	764.5	587.9	282.4	129.6	92.4	76.0	69.3	64.8	61.8	60.4	60.4
35°	816.6	618.4	280.2	134.1	93.9	73.0	65.6	61.1	58.1	56.6	56.6
37.5°	874.7	654.2	280.2	138.6	97.6	72.3	61.8	57.4	55.1	53.6	53.6
40°	929.1	692.2	283.1	143.8	101.3	72.3	58.9	55.1	52.2	50.7	50.7
42.5°	971.6	713.8	285.4	149.0	103.6	71.5	55.9	52.2	49.9	48.4	48.4
45°	1020.0	736.9	280.9	151.3	103.6	70.0	53.6	49.9	47.7	46.2	46.2
47.5°	1073.7	765.2	280.2	152.7	101.3	67.1	51.4	47.7	46.2	44.7	44.7
50°	1128.1	796.5	281.6	152.0	98.4	62.6	48.4	46.2	44.0	42.5	42.5
52.5°	1189.9	829.3	284.6	150.5	91.6	57.4	46.2	44.0	41.7	40.2	39.5
55°	1258.5	865.1	290.6	147.5	82.7	52.2	44.0	41.7	38.7	37.3	36.5
57.5°	1337.4	909.0	297.3	141.6	73.0	47.7	41.7	38.7	34.3	32.0	31.3
60°	1412.7	958.9	304.7	127.4	63.3	43.2	39.5	35.0	30.5	29.1	28.3
62.5°	1483.5	1008.1	308.5	102.1	53.6	39.5	37.3	32.0	27.6	26.1	25.3
65°	1528.9	1061.8	300.3	69.3	44.0	36.5	34.3	29.8	25.3	23.1	23.1
67.5°	1531.9	1087.1	272.0	45.5	35.8	32.8	31.3	26.8	22.4	20.9	20.1
70°	1456.7	1049.1	207.9	35.8	29.8	28.3	28.3	23.8	19.4	17.9	17.1
72.5°	1283.8	929.1	132.6	29.1	25.3	23.8	23.8	20.1	17.1	14.9	14.2
75°	1013.3	716.8	70.8	23.8	20.9	20.1	18.6	16.4	14.2	12.7	11.9
77.5°	465.7	315.9	32.8	17.1	15.6	15.6	14.2	11.9	11.2	9.7	9.7
80°	184.0	107.3	16.4	11.2	10.4	10.4	10.4	8.2	8.2	6.7	6.0
82.5°	50.7	22.4	8.2	6.7	6.7	6.7	6.0	5.2	5.2	4.5	4.5
85°	5.2	3.7	3.7	3.7	3.7	3.0	3.0	2.2	1.5	1.5	1.5
87.5°	2.2	2.2	2.2	2.2	2.2	1.5	0.7	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)