

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: P799766

Luminaire Tested: **ARCH2-50-730-U-T3-HSS**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P799766
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: ARCH2-50-730-U-T3-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 410mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5360 lumens
Efficiency: N/A
Efficacy: 99.3 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 54
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

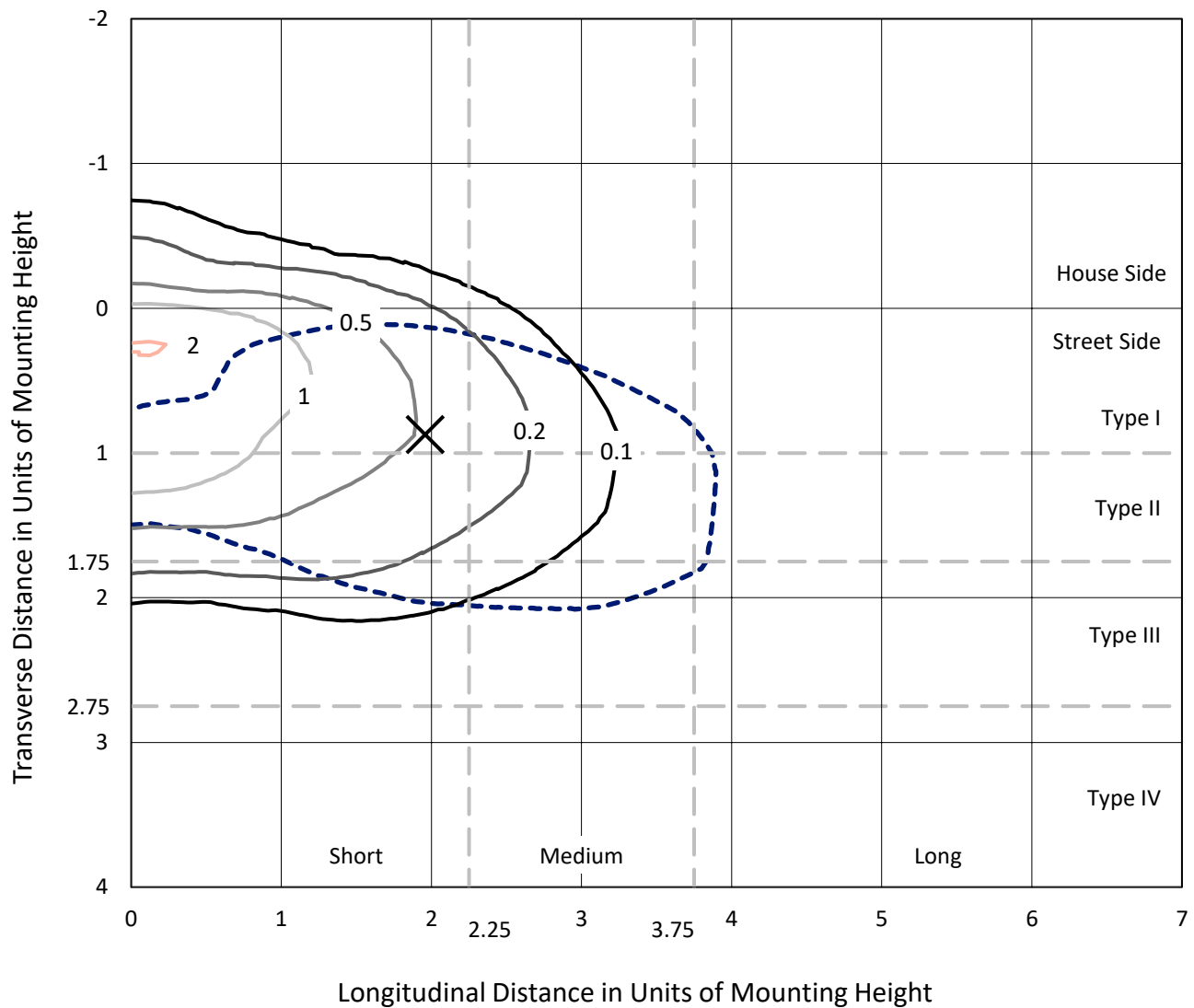


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

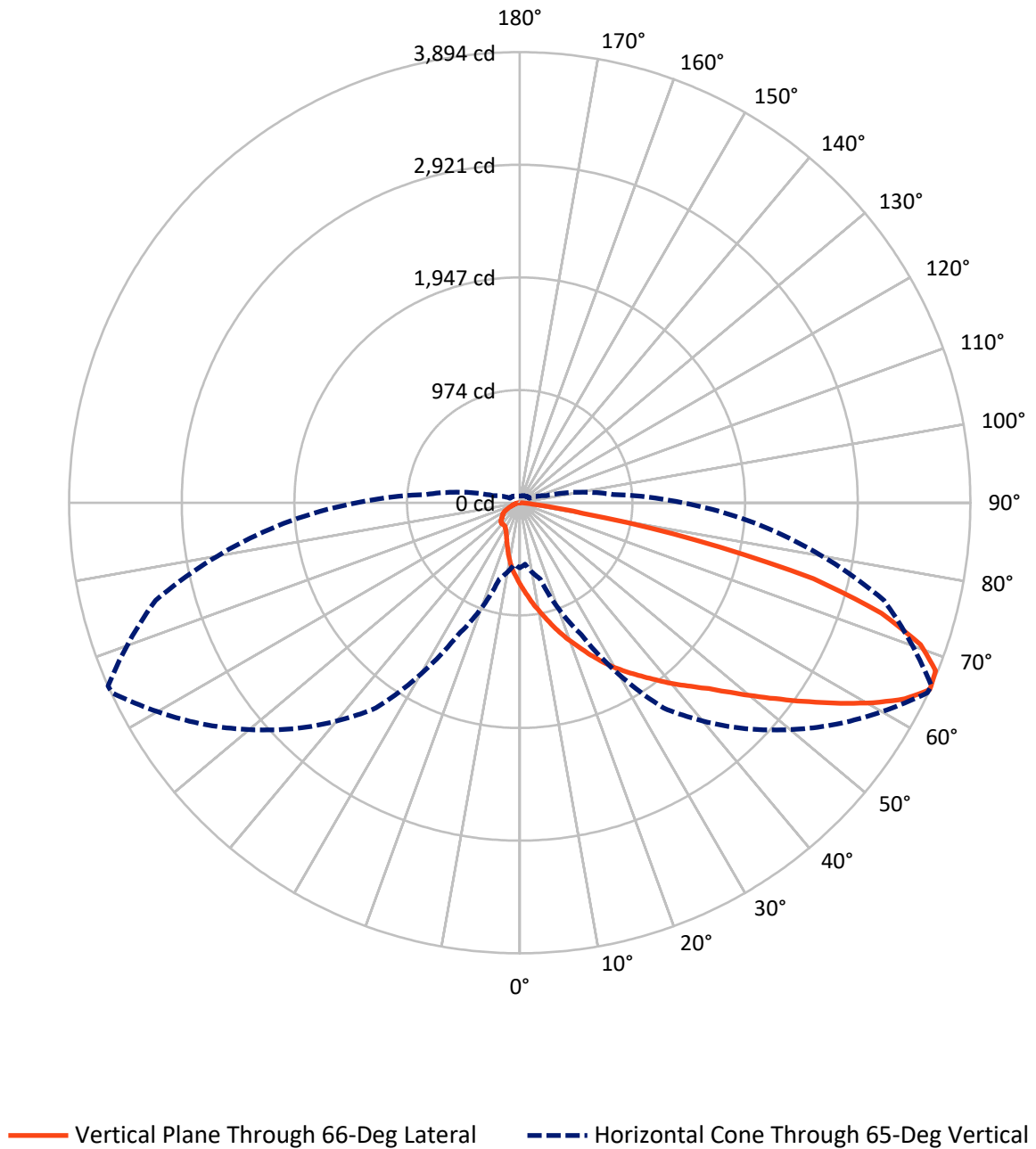


Based on 25 foot mounting height. Maximum calculated value = 2.1 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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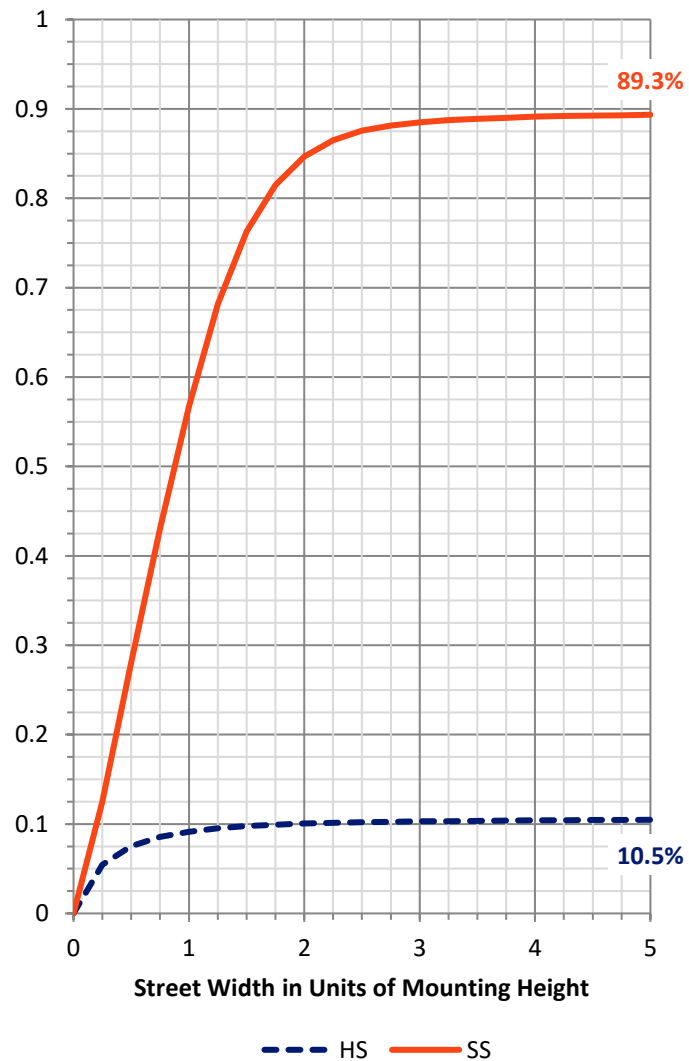
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	566.9	0.0	566.9
	% Fixture	10.6	0.0	10.6
Street Side	Lumens	4793.1	0.0	4793.1
	% Fixture	89.4	0.0	89.4
Total	Lumens	5360.0	0.0	5360.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.0	1.3
10°-20°	228.2	4.3
20°-30°	412.9	7.7
30°-40°	645.6	12.0
40°-50°	979.4	18.3
50°-60°	1244.4	23.2
60°-70°	1162.8	21.7
70°-80°	577.9	10.8
80°-90°	38.8	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°	5360.0	100.0
0°-180°	5360.0	100.0

Coefficient of Utilization



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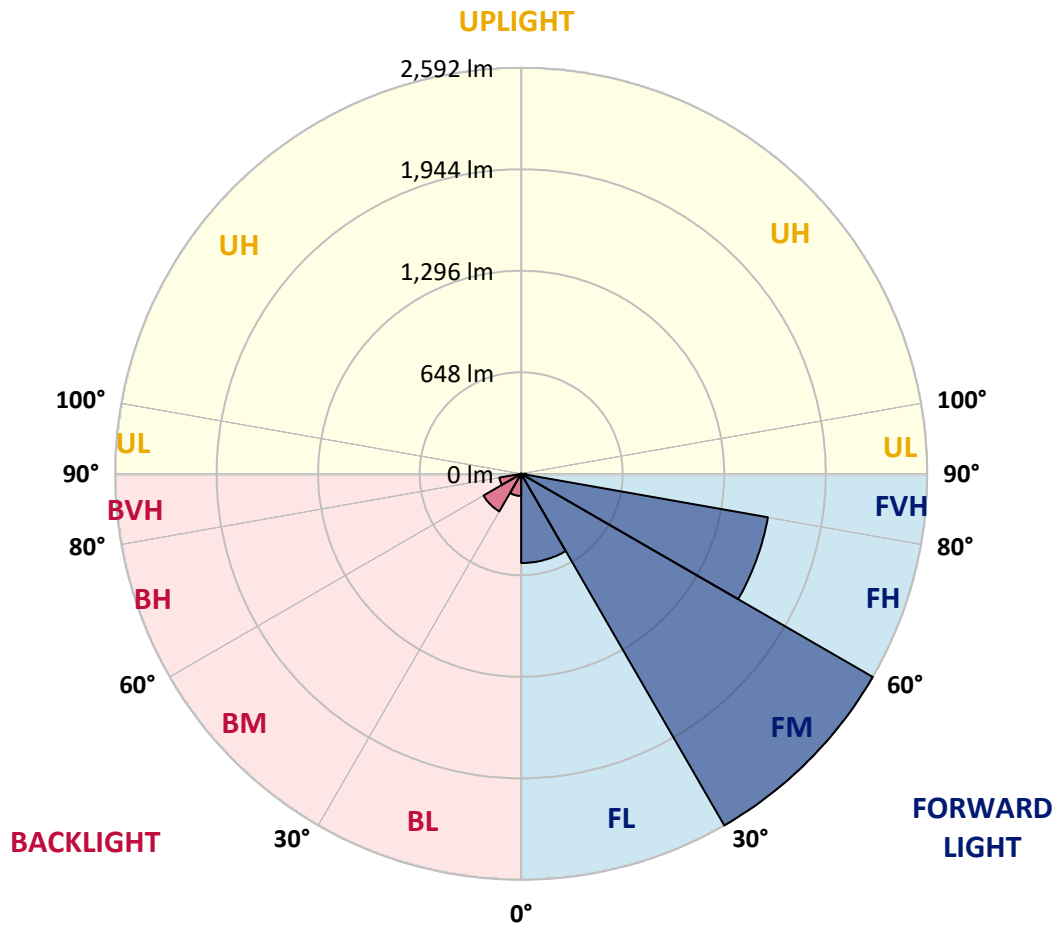
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	569.5	10.6			
FM	(30°-60°)	2592.2	48.4			
FH	(60°-80°)	1599.4	29.8			G1/1800
FVH	(80°-90°)	32.0	0.6			G1/100
BL	(0°-30°)	141.6	2.6	B1/500		
BM	(30°-60°)	277.3	5.2	B1/1000		
BH	(60°-80°)	141.2	2.6	B1/500		G1/500
BVH	(80°-90°)	6.9	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 III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	709.4	709.4	709.4	709.4	709.4	709.4	709.4	709.4	709.4	709.4	709.4
2.5°	828.5	835.3	838.6	839.8	813.9	802.7	791.4	765.6	760.0	745.3	726.2
5°	974.7	983.7	981.4	976.9	945.4	909.5	880.2	831.9	824.0	789.2	746.5
7.5°	1118.6	1126.4	1124.2	1107.3	1072.5	1021.9	973.6	902.7	891.5	835.3	766.7
10°	1238.9	1245.6	1244.5	1227.6	1186.0	1124.2	1065.7	971.3	957.8	878.0	783.6
12.5°	1337.8	1346.8	1345.7	1334.4	1297.3	1229.9	1163.5	1050.0	1033.1	929.7	807.2
15°	1415.4	1426.6	1426.6	1422.1	1396.2	1340.0	1264.7	1136.6	1116.3	989.3	836.4
17.5°	1462.6	1471.6	1479.4	1487.3	1469.3	1426.6	1358.0	1223.1	1201.8	1047.7	866.8
20°	1487.3	1496.3	1501.9	1518.8	1522.2	1500.8	1446.8	1308.6	1286.1	1114.1	901.6
22.5°	1527.8	1535.6	1536.8	1551.4	1558.1	1563.8	1530.0	1392.9	1374.9	1187.1	941.0
25°	1595.2	1604.2	1600.9	1607.6	1608.7	1615.5	1612.1	1489.6	1471.6	1270.3	988.2
27.5°	1681.8	1693.0	1690.8	1684.0	1673.9	1668.3	1682.9	1587.4	1570.5	1353.5	1036.5
30°	1775.1	1788.6	1785.2	1771.7	1744.7	1721.1	1741.4	1679.5	1663.8	1439.0	1090.5
32.5°	1869.5	1885.3	1884.1	1861.7	1815.6	1775.1	1805.5	1766.1	1754.9	1531.2	1148.9
35°	1931.4	1951.6	1949.4	1935.9	1876.3	1841.4	1878.5	1854.9	1847.1	1643.6	1233.2
37.5°	2031.4	2052.8	2033.7	1999.9	1931.4	1913.4	1958.3	1955.0	1949.4	1762.7	1322.1
40°	2274.2	2305.7	2255.1	2116.9	2004.4	1988.7	2052.8	2066.3	2060.6	1880.8	1401.9
42.5°	2528.3	2575.5	2496.8	2305.7	2137.1	2079.8	2156.2	2175.3	2168.6	1982.0	1473.8
45°	2682.3	2702.6	2623.9	2475.5	2372.0	2189.9	2266.4	2297.9	2292.2	2103.4	1566.0
47.5°	2808.2	2800.4	2710.4	2610.4	2629.5	2345.1	2391.2	2453.0	2448.5	2237.1	1667.2
50°	2835.2	2817.2	2781.3	2718.3	2768.9	2502.5	2522.7	2629.5	2625.0	2385.5	1769.5
52.5°	2645.2	2621.6	2719.4	2772.3	2755.4	2617.1	2667.7	2822.9	2820.6	2546.3	1867.3
55°	2170.8	2151.7	2414.8	2687.9	2740.8	2698.1	2828.5	3024.1	3036.4	2717.2	1956.1
57.5°	1707.7	1687.4	1946.0	2476.6	2686.8	2772.3	3016.2	3254.5	3270.3	2902.7	2040.4
60°	1361.4	1331.0	1528.9	2143.8	2585.6	2829.6	3197.2	3507.5	3509.7	3072.4	2092.1
62.5°	925.2	891.5	1110.7	1722.3	2415.9	2838.6	3336.6	3725.6	3734.6	3199.5	2101.1
65°	562.1	534.0	682.4	1258.0	2165.2	2762.1	3338.9	3886.3	3894.2	3257.9	2047.2
67.5°	326.0	314.8	390.1	783.6	1749.2	2556.4	3198.3	3861.6	3876.2	3233.2	1924.6
70°	190.0	188.9	217.0	387.8	1234.4	2148.3	2884.7	3653.6	3675.0	3103.9	1736.9
72.5°	139.4	141.6	152.9	208.0	715.0	1546.9	2442.9	3235.4	3268.0	2851.0	1469.3
75°	110.2	111.3	121.4	141.6	375.5	874.6	1830.2	2596.9	2622.7	2400.2	1147.8
77.5°	82.1	84.3	92.2	100.1	174.3	401.3	1029.8	1599.7	1557.0	1317.6	554.2
80°	59.6	65.2	68.6	71.9	92.2	155.1	309.2	557.6	553.1	575.6	261.9
82.5°	38.2	42.7	46.1	48.3	55.1	74.2	92.2	124.8	134.9	223.7	104.6
85°	16.9	19.1	21.4	25.9	23.6	25.9	38.2	24.7	21.4	33.7	19.1
87.5°	0.0	0.0	3.4	5.6	4.5	2.2	6.7	4.5	3.4	3.4	3.4
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°	709.4	709.4	709.4	709.4	709.4	709.4	709.4	709.4	709.4	709.4	709.4
2.5°	716.1	703.7	677.9	653.2	638.5	619.4	602.6	586.8	585.7	581.2	573.3
5°	725.1	701.5	653.2	607.1	572.2	535.1	503.6	478.9	469.9	463.2	454.2
7.5°	734.1	697.0	625.1	557.6	502.5	450.8	413.7	380.0	369.9	360.9	355.2
10°	737.5	689.1	592.5	502.5	430.6	375.5	336.1	311.4	302.4	297.9	294.5
12.5°	747.6	684.6	562.1	450.8	367.6	317.0	288.9	274.3	270.9	267.6	264.2
15°	761.1	684.6	531.7	400.2	318.1	277.7	260.8	250.7	248.4	247.3	245.1
17.5°	775.7	684.6	502.5	357.5	282.2	251.8	239.5	233.8	232.7	231.6	230.5
20°	795.9	685.8	471.0	320.4	256.3	232.7	222.6	215.8	214.7	213.6	213.6
22.5°	816.2	688.0	440.7	292.3	239.5	218.1	205.7	199.0	196.7	196.7	196.7
25°	842.0	694.8	412.6	268.7	224.8	204.6	188.9	183.2	182.1	182.1	181.0
27.5°	872.4	702.6	387.8	250.7	210.2	188.9	173.1	167.5	165.3	165.3	164.1
30°	905.0	710.5	367.6	237.2	195.6	173.1	158.5	151.8	149.5	150.6	149.5
32.5°	941.0	721.7	351.9	228.2	182.1	159.6	146.1	138.3	137.2	137.2	136.0
35°	1001.7	753.2	349.6	223.7	170.9	149.5	136.0	128.2	127.0	127.0	125.9
37.5°	1066.9	789.2	359.7	221.5	161.9	140.5	128.2	120.3	119.2	119.2	119.2
40°	1121.9	816.2	371.0	221.5	156.3	132.7	121.4	114.7	114.7	114.7	114.7
42.5°	1159.0	818.4	368.7	221.5	151.8	127.0	116.9	110.2	110.2	111.3	110.2
45°	1214.1	829.7	359.7	218.1	148.4	122.5	112.4	106.8	105.7	106.8	106.8
47.5°	1279.3	849.9	350.7	204.6	147.3	118.0	109.0	102.3	101.2	102.3	101.2
50°	1341.2	867.9	346.3	186.6	145.0	113.5	104.6	97.8	96.7	97.8	96.7
52.5°	1392.9	875.7	338.4	174.3	139.4	109.0	100.1	93.3	91.1	92.2	92.2
55°	1434.5	873.5	327.1	164.1	129.3	104.6	94.4	88.8	85.4	85.4	84.3
57.5°	1472.7	874.6	317.0	154.0	118.0	97.8	89.9	83.2	78.7	77.6	76.4
60°	1487.3	869.0	299.0	140.5	106.8	92.2	84.3	76.4	71.9	70.8	69.7
62.5°	1467.1	848.8	275.4	116.9	96.7	85.4	78.7	70.8	66.3	65.2	64.1
65°	1409.7	810.5	239.5	92.2	87.7	77.6	71.9	66.3	60.7	58.5	57.3
67.5°	1311.9	755.5	194.5	74.2	77.6	70.8	67.5	60.7	54.0	51.7	50.6
70°	1172.5	682.4	146.1	63.0	68.6	63.0	60.7	54.0	48.3	46.1	45.0
72.5°	976.9	564.3	102.3	54.0	59.6	55.1	52.8	48.3	42.7	39.3	39.3
75°	738.6	404.7	67.5	46.1	49.5	47.2	43.8	40.5	37.1	34.9	33.7
77.5°	318.1	157.4	41.6	34.9	40.5	39.3	34.9	32.6	31.5	29.2	29.2
80°	137.2	64.1	25.9	25.9	29.2	28.1	27.0	24.7	24.7	23.6	22.5
82.5°	50.6	25.9	15.7	19.1	21.4	19.1	19.1	19.1	19.1	18.0	18.0
85°	12.4	7.9	7.9	11.2	12.4	11.2	12.4	11.2	11.2	11.2	10.1
87.5°	3.4	3.4	4.5	4.5	4.5	4.5	4.5	3.4	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)