

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: P799158

Luminaire Tested: **ARCH1-60-740-U-T3-HSS**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P799158
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: ARCH1-60-740-U-T3-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 4000K, 1640mA LIGHTSQUARE WITH 10 LEDS AND TYPE III OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5168 lumens
Efficiency: N/A
Efficacy: 86.1 lumens/watt
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 60
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

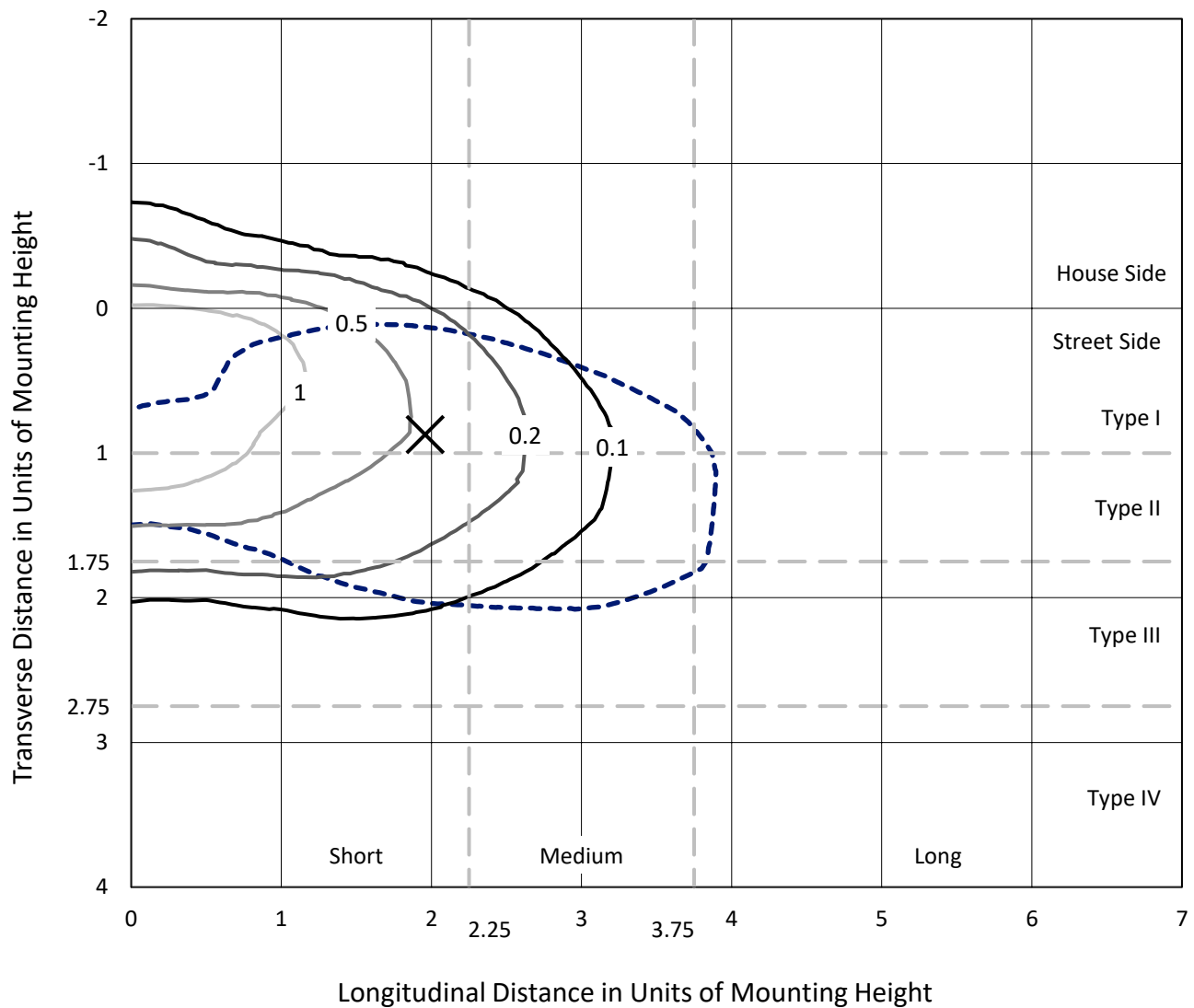


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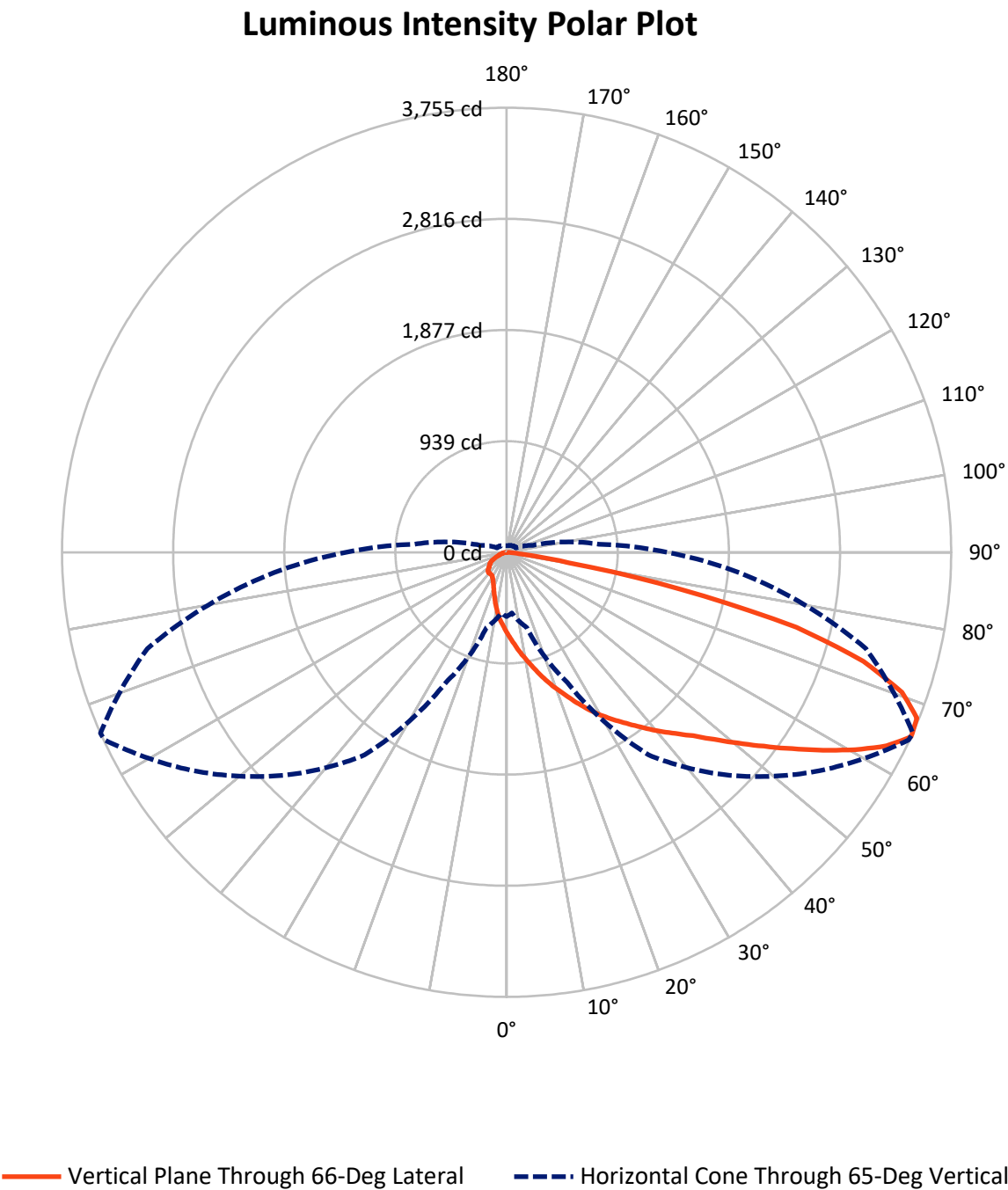
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 fc
Type III - Short - N/A

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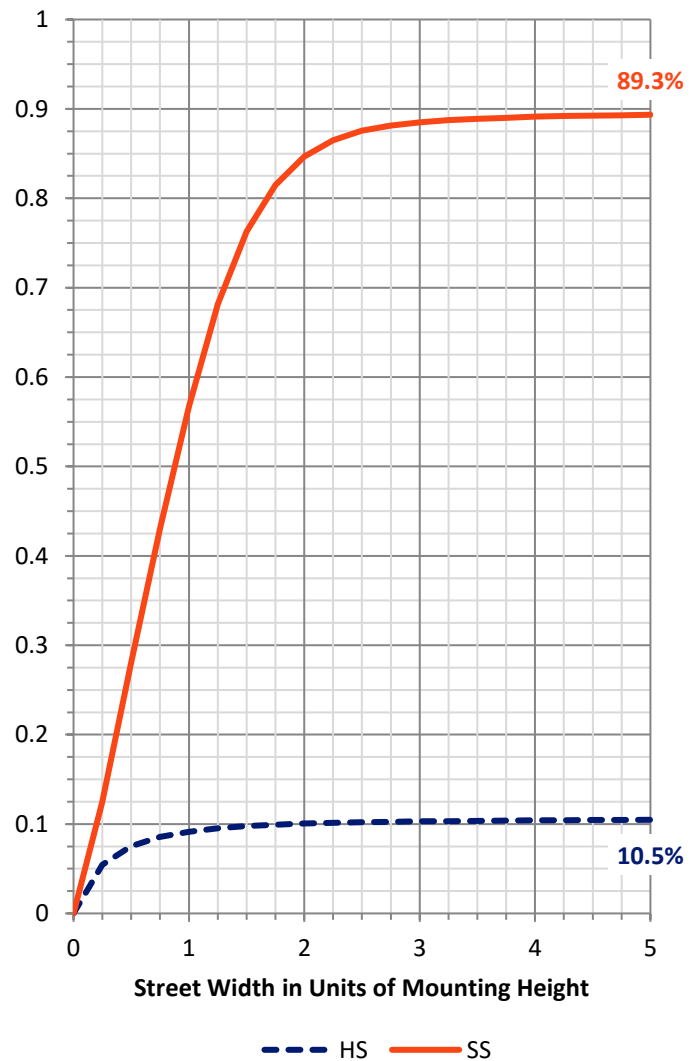
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	546.6	0.0	546.6
	% Fixture	10.6	0.0	10.6
Street Side	Lumens	4621.4	0.0	4621.4
	% Fixture	89.4	0.0	89.4
Total	Lumens	5168.0	0.0	5168.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.5	1.3
10°-20°	220.0	4.3
20°-30°	398.1	7.7
30°-40°	622.5	12.0
40°-50°	944.3	18.3
50°-60°	1199.8	23.2
60°-70°	1121.1	21.7
70°-80°	557.2	10.8
80°-90°	37.4	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°	5168.0	100.0
0°-180°	5168.0	100.0

Coefficient of Utilization



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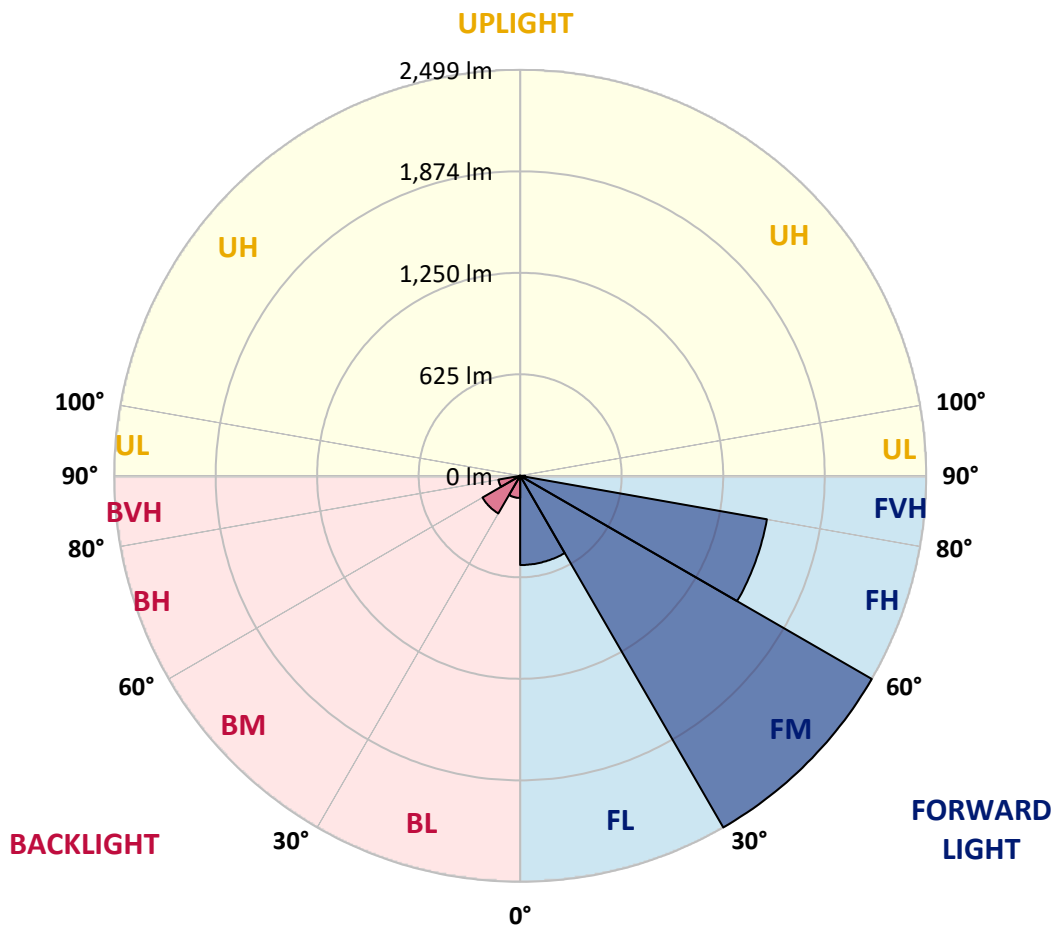
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	549.1	10.6			
FM	(30°-60°)	2499.3	48.4			
FH	(60°-80°)	1542.2	29.8			G1/1800
FVH	(80°-90°)	30.8	0.6			G1/100
BL	(0°-30°)	136.5	2.6	B1/500		
BM	(30°-60°)	267.4	5.2	B1/1000		
BH	(60°-80°)	136.1	2.6	B1/500		G1/500
BVH	(80°-90°)	6.6	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°	684.0	684.0	684.0	684.0	684.0	684.0	684.0	684.0	684.0	684.0	684.0
2.5°	798.9	805.4	808.6	809.7	784.8	773.9	763.1	738.2	732.7	718.6	700.2
5°	939.8	948.4	946.3	941.9	911.6	876.9	848.7	802.1	794.5	760.9	719.7
7.5°	1078.5	1086.1	1083.9	1067.7	1034.1	985.3	938.7	870.4	859.6	805.4	739.2
10°	1194.5	1201.0	1199.9	1183.6	1143.5	1083.9	1027.6	936.5	923.5	846.5	755.5
12.5°	1289.9	1298.5	1297.5	1286.6	1250.8	1185.8	1121.9	1012.4	996.1	896.4	778.3
15°	1364.7	1375.5	1375.5	1371.2	1346.2	1292.0	1219.4	1095.8	1076.3	953.9	806.4
17.5°	1410.2	1418.9	1426.4	1434.0	1416.7	1375.5	1309.4	1179.3	1158.7	1010.2	835.7
20°	1434.0	1442.7	1448.1	1464.4	1467.6	1447.0	1395.0	1261.7	1240.0	1074.2	869.3
22.5°	1473.1	1480.6	1481.7	1495.8	1502.3	1507.7	1475.2	1343.0	1325.6	1144.6	907.2
25°	1538.1	1546.8	1543.5	1550.0	1551.1	1557.6	1554.3	1436.2	1418.9	1224.8	952.8
27.5°	1621.6	1632.4	1630.2	1623.7	1614.0	1608.5	1622.6	1530.5	1514.2	1305.0	999.4
30°	1711.5	1724.5	1721.3	1708.3	1682.3	1659.5	1679.0	1619.4	1604.2	1387.4	1051.4
32.5°	1802.6	1817.7	1816.7	1795.0	1750.5	1711.5	1740.8	1702.8	1692.0	1476.3	1107.8
35°	1862.2	1881.7	1879.5	1866.5	1809.1	1775.5	1811.2	1788.5	1780.9	1584.7	1189.1
37.5°	1958.7	1979.2	1960.8	1928.3	1862.2	1844.8	1888.2	1884.9	1879.5	1699.6	1274.7
40°	2192.8	2223.1	2174.4	2041.0	1932.6	1917.5	1979.2	1992.3	1986.8	1813.4	1351.7
42.5°	2437.7	2483.3	2407.4	2223.1	2060.5	2005.3	2079.0	2097.4	2090.9	1911.0	1421.0
45°	2586.2	2605.8	2529.9	2386.8	2287.1	2111.5	2185.2	2215.5	2210.1	2028.0	1509.9
47.5°	2707.6	2700.1	2613.3	2516.9	2535.3	2261.1	2305.5	2365.1	2360.8	2157.0	1607.5
50°	2733.7	2716.3	2681.6	2620.9	2669.7	2412.8	2432.3	2535.3	2531.0	2300.1	1706.1
52.5°	2550.5	2527.7	2622.0	2673.0	2656.7	2523.4	2572.2	2721.7	2719.6	2455.1	1800.4
55°	2093.1	2074.6	2328.3	2591.7	2642.6	2601.4	2727.2	2915.8	2927.7	2619.8	1886.0
57.5°	1646.5	1627.0	1876.3	2387.9	2590.6	2673.0	2908.2	3138.0	3153.1	2798.7	1967.3
60°	1312.6	1283.4	1474.1	2067.0	2493.0	2728.2	3082.7	3381.8	3384.0	2962.4	2017.2
62.5°	892.1	859.6	1070.9	1660.6	2329.4	2736.9	3217.1	3592.1	3600.8	3084.8	2025.9
65°	542.0	514.9	657.9	1212.9	2087.6	2663.2	3219.3	3747.1	3754.7	3141.2	1973.8
67.5°	314.3	303.5	376.1	755.5	1686.6	2464.8	3083.8	3723.3	3737.4	3117.4	1855.7
70°	183.2	182.1	209.2	374.0	1190.1	2071.4	2781.4	3522.8	3543.3	2992.7	1674.7
72.5°	134.4	136.6	147.4	200.5	689.4	1491.5	2355.4	3119.5	3151.0	2748.8	1416.7
75°	106.2	107.3	117.1	136.6	362.0	843.3	1764.6	2503.9	2528.8	2314.2	1106.7
77.5°	79.1	81.3	88.9	96.5	168.0	387.0	992.9	1542.4	1501.2	1270.4	534.4
80°	57.4	62.9	66.1	69.4	88.9	149.6	298.1	537.6	533.3	555.0	252.6
82.5°	36.9	41.2	44.4	46.6	53.1	71.5	88.9	120.3	130.1	215.7	100.8
85°	16.3	18.4	20.6	24.9	22.8	24.9	36.9	23.8	20.6	32.5	18.4
87.5°	0.0	0.0	3.3	5.4	4.3	2.2	6.5	4.3	3.3	3.3	3.3
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°	684.0	684.0	684.0	684.0	684.0	684.0	684.0	684.0	684.0	684.0	684.0
2.5°	690.5	678.5	653.6	629.8	615.7	597.2	581.0	565.8	564.7	560.4	552.8
5°	699.1	676.4	629.8	585.3	551.7	515.9	485.6	461.8	453.1	446.6	437.9
7.5°	707.8	672.0	602.7	537.6	484.5	434.7	398.9	366.4	356.6	347.9	342.5
10°	711.1	664.4	571.2	484.5	415.1	362.0	324.1	300.2	291.6	287.2	284.0
12.5°	720.8	660.1	542.0	434.7	354.4	305.7	278.6	264.5	261.2	258.0	254.7
15°	733.8	660.1	512.7	385.9	306.8	267.7	251.5	241.7	239.5	238.5	236.3
17.5°	747.9	660.1	484.5	344.7	272.1	242.8	230.9	225.5	224.4	223.3	222.2
20°	767.4	661.2	454.2	308.9	247.1	224.4	214.6	208.1	207.0	205.9	205.9
22.5°	786.9	663.4	424.9	281.8	230.9	210.3	198.4	191.9	189.7	189.7	189.7
25°	811.9	669.9	397.8	259.1	216.8	197.3	182.1	176.7	175.6	175.6	174.5
27.5°	841.1	677.5	374.0	241.7	202.7	182.1	166.9	161.5	159.3	159.3	158.3
30°	872.6	685.0	354.4	228.7	188.6	166.9	152.8	146.3	144.2	145.2	144.2
32.5°	907.2	695.9	339.3	220.0	175.6	153.9	140.9	133.3	132.2	132.2	131.2
35°	965.8	726.2	337.1	215.7	164.8	144.2	131.2	123.6	122.5	122.5	121.4
37.5°	1028.6	760.9	346.9	213.5	156.1	135.5	123.6	116.0	114.9	114.9	114.9
40°	1081.8	786.9	357.7	213.5	150.7	127.9	117.1	110.6	110.6	110.6	110.6
42.5°	1117.5	789.1	355.5	213.5	146.3	122.5	112.7	106.2	106.2	107.3	106.2
45°	1170.6	799.9	346.9	210.3	143.1	118.1	108.4	103.0	101.9	103.0	103.0
47.5°	1233.5	819.4	338.2	197.3	142.0	113.8	105.1	98.6	97.6	98.6	97.6
50°	1293.1	836.8	333.8	179.9	139.8	109.5	100.8	94.3	93.2	94.3	93.2
52.5°	1343.0	844.4	326.3	168.0	134.4	105.1	96.5	90.0	87.8	88.9	88.9
55°	1383.1	842.2	315.4	158.3	124.7	100.8	91.0	85.6	82.4	82.4	81.3
57.5°	1419.9	843.3	305.7	148.5	113.8	94.3	86.7	80.2	75.9	74.8	73.7
60°	1434.0	837.9	288.3	135.5	103.0	88.9	81.3	73.7	69.4	68.3	67.2
62.5°	1414.5	818.4	265.6	112.7	93.2	82.4	75.9	68.3	64.0	62.9	61.8
65°	1359.2	781.5	230.9	88.9	84.5	74.8	69.4	64.0	58.5	56.4	55.3
67.5°	1264.9	728.4	187.5	71.5	74.8	68.3	65.0	58.5	52.0	49.9	48.8
70°	1130.5	657.9	140.9	60.7	66.1	60.7	58.5	52.0	46.6	44.4	43.4
72.5°	941.9	544.1	98.6	52.0	57.4	53.1	50.9	46.6	41.2	37.9	37.9
75°	712.1	390.2	65.0	44.4	47.7	45.5	42.3	39.0	35.8	33.6	32.5
77.5°	306.8	151.7	40.1	33.6	39.0	37.9	33.6	31.4	30.3	28.2	28.2
80°	132.2	61.8	24.9	24.9	28.2	27.1	26.0	23.8	23.8	22.8	21.7
82.5°	48.8	24.9	15.2	18.4	20.6	18.4	18.4	18.4	18.4	17.3	17.3
85°	11.9	7.6	7.6	10.8	11.9	10.8	11.9	10.8	10.8	10.8	9.8
87.5°	3.3	3.3	4.3	4.3	4.3	4.3	4.3	3.3	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)