

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: P800120

Luminaire Tested: **ARCH2-80-722-U-T4W-HSS**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P800120
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-27)
Test Lab: INNOVATION CENTER
Issue Date: 4/4/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH2-80-722-U-T4W-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 630mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6660 lumens
Efficiency: N/A
Efficacy: 79.0 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

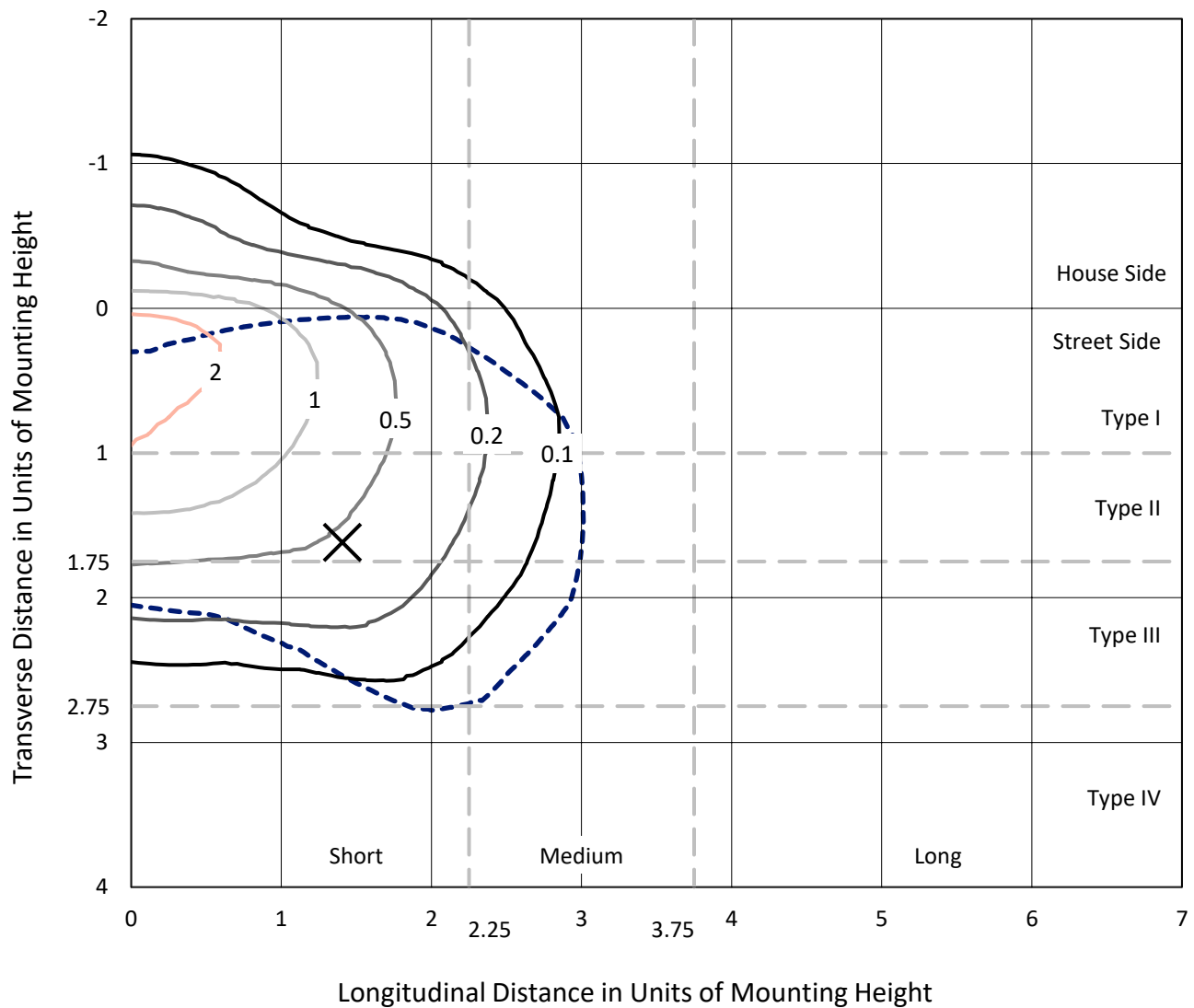
Input Watts (W): 84.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

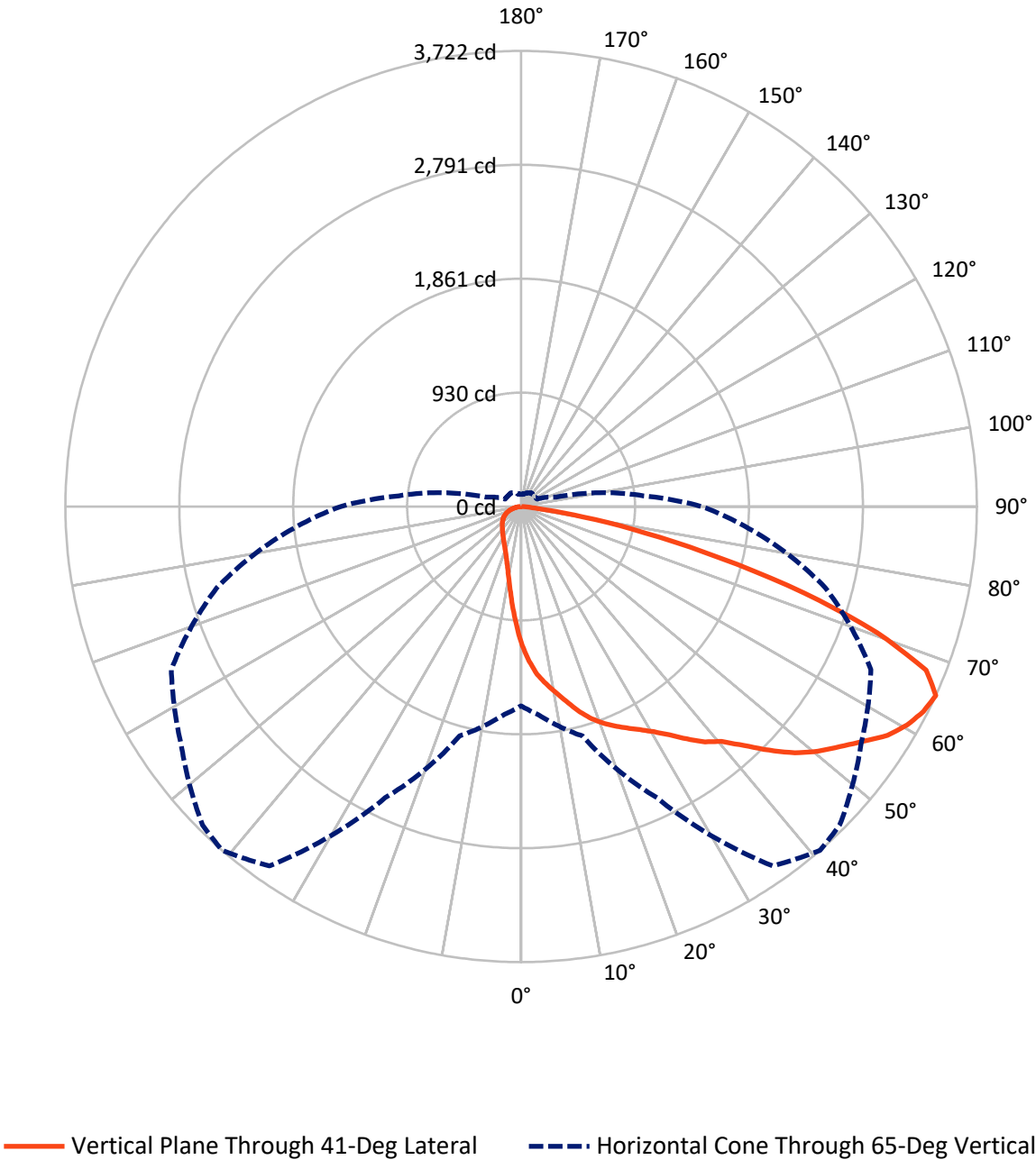
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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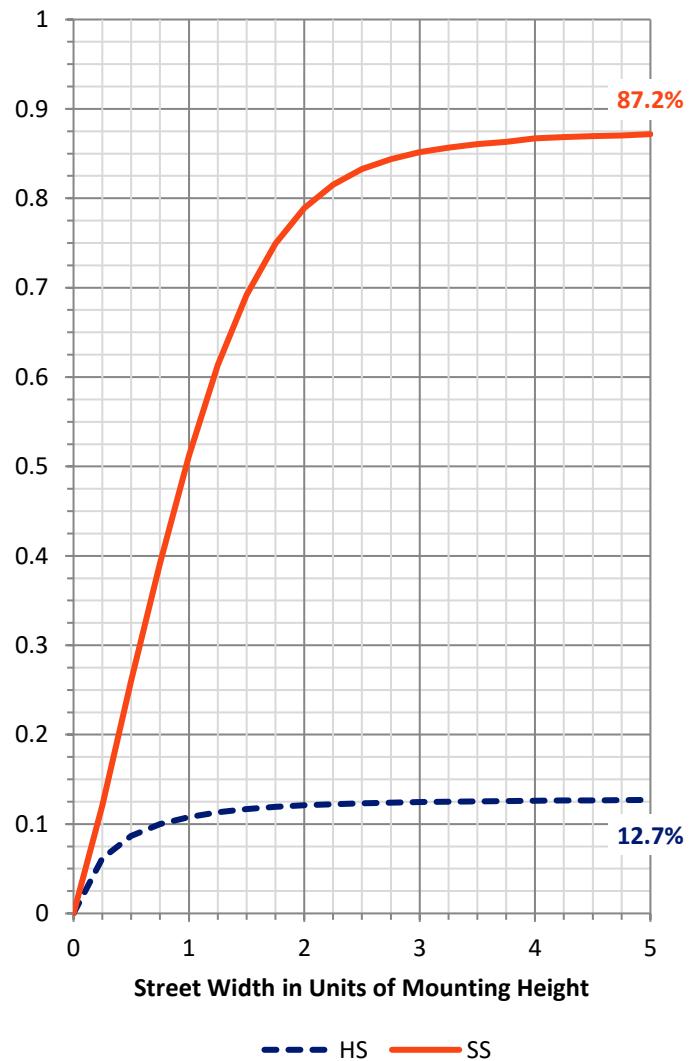
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	855.0	0.0	855.0
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	5805.0	0.0	5805.0
	% Fixture	87.2	0.0	87.2
Total	Lumens	6660.0	0.0	6660.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.7	1.6
10°-20°	317.1	4.8
20°-30°	545.5	8.2
30°-40°	827.3	12.4
40°-50°	1212.0	18.2
50°-60°	1530.5	23.0
60°-70°	1435.1	21.5
70°-80°	639.6	9.6
80°-90°	47.4	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°	6660.0	100.0
0°-180°	6660.0	100.0

Coefficient of Utilization



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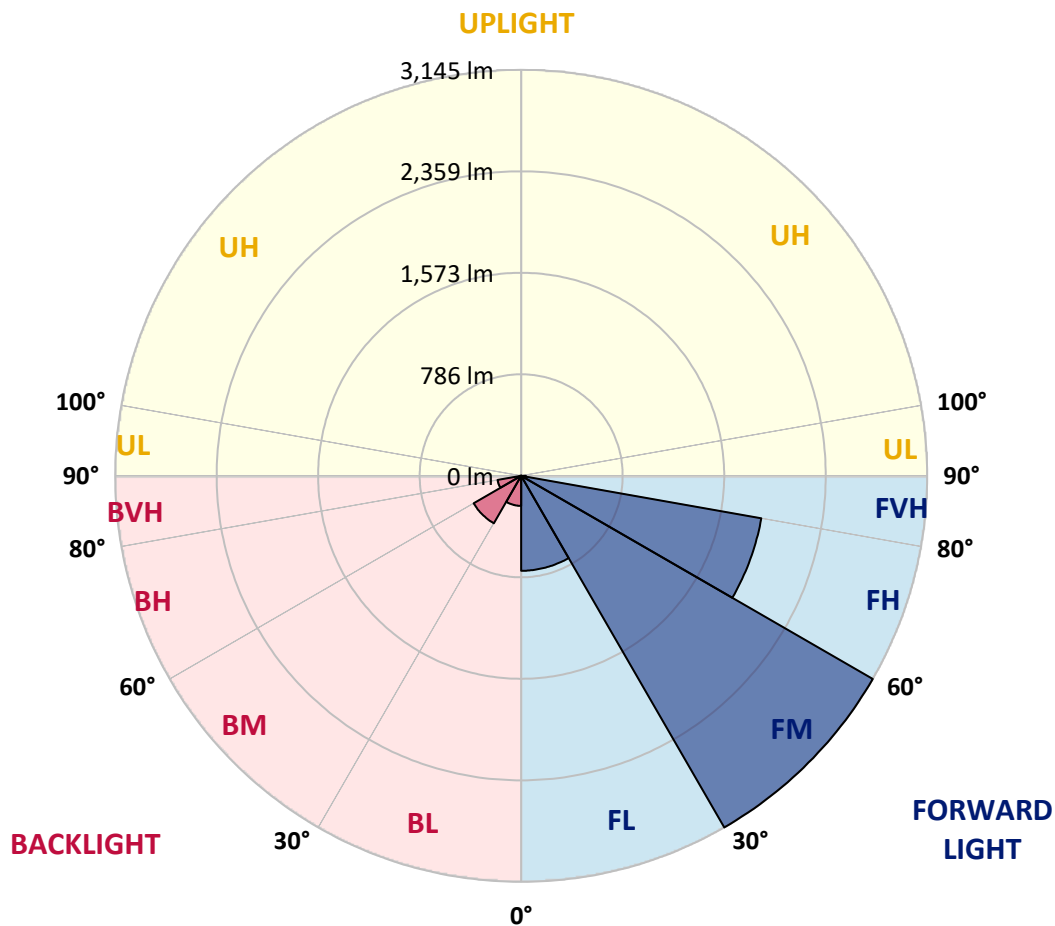
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	735.5	11.0			
FM	(30°-60°)	3145.1	47.2			
FH	(60°-80°)	1888.9	28.4			G2/5000
FVH	(80°-90°)	35.4	0.5			G1/100
BL	(0°-30°)	232.7	3.5	B1/500		
BM	(30°-60°)	424.6	6.4	B1/1000		
BH	(60°-80°)	185.7	2.8	B1/500		G1/500
BVH	(80°-90°)	12.0	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	41°	45°	55°	65°	75°	85°
0°	1134.8	1134.8	1134.8	1134.8	1134.8	1134.8	1134.8	1134.8	1134.8	1134.8	1134.8
2.5°	1309.0	1304.8	1302.0	1286.5	1286.5	1265.4	1266.9	1247.2	1223.3	1185.4	1144.7
5°	1432.6	1427.0	1419.9	1404.5	1398.9	1377.8	1375.0	1346.9	1306.2	1240.2	1167.1
7.5°	1540.7	1535.1	1525.3	1502.8	1487.4	1462.1	1455.1	1418.5	1373.6	1292.1	1189.6
10°	1639.0	1634.8	1622.2	1594.1	1573.0	1542.1	1529.5	1480.3	1424.2	1334.3	1207.9
12.5°	1738.8	1733.1	1716.3	1692.4	1667.1	1630.6	1615.2	1552.0	1480.3	1380.6	1234.5
15°	1831.5	1823.0	1810.4	1785.1	1762.6	1727.5	1710.7	1636.2	1549.2	1432.6	1269.7
17.5°	1891.9	1884.8	1873.6	1859.5	1841.3	1814.6	1797.7	1724.7	1618.0	1483.1	1306.2
20°	1928.4	1925.6	1921.3	1912.9	1904.5	1886.2	1873.6	1804.8	1692.4	1532.3	1341.3
22.5°	1956.5	1953.6	1952.2	1952.2	1953.6	1946.6	1938.2	1879.2	1764.0	1584.3	1373.6
25°	2000.0	1998.6	1995.8	1993.0	2002.8	2004.2	2001.4	1960.7	1853.9	1653.1	1414.3
27.5°	2060.4	2056.2	2050.6	2047.7	2057.6	2064.6	2070.2	2042.1	1949.4	1723.3	1460.7
30°	2153.1	2140.4	2126.4	2116.6	2123.6	2134.8	2147.5	2130.6	2047.7	1810.4	1508.4
32.5°	2262.6	2247.2	2214.9	2196.6	2214.9	2223.3	2233.1	2224.7	2150.3	1904.5	1556.2
35°	2396.1	2377.8	2344.1	2317.4	2349.7	2331.5	2327.2	2318.8	2247.2	1997.2	1609.5
37.5°	2618.0	2591.3	2537.9	2478.9	2478.9	2439.6	2424.2	2398.9	2334.3	2080.1	1661.5
40°	2875.0	2839.9	2771.1	2684.0	2603.9	2522.5	2512.6	2494.4	2436.8	2175.6	1720.5
42.5°	3157.3	3089.9	2994.4	2889.0	2759.8	2667.1	2644.7	2592.7	2536.5	2272.5	1779.5
45°	3470.5	3330.0	3191.0	3137.6	2924.2	2839.9	2797.7	2703.6	2640.4	2373.6	1841.3
47.5°	3521.1	3411.5	3318.8	3310.4	3077.2	3007.0	2959.3	2824.4	2752.8	2481.7	1905.9
50°	3493.0	3427.0	3436.8	3403.1	3189.6	3143.3	3106.7	2953.6	2863.8	2585.7	1964.9
52.5°	3375.0	3411.5	3467.7	3405.9	3296.3	3258.4	3240.2	3092.7	2967.7	2681.2	2018.3
55°	3234.5	3259.8	3380.6	3456.5	3419.9	3386.2	3369.4	3254.2	3070.2	2761.2	2067.4
57.5°	3029.5	3018.3	3151.7	3448.0	3549.2	3529.5	3511.2	3412.9	3165.7	2818.8	2098.3
60°	2721.9	2698.0	2866.6	3279.5	3591.3	3622.2	3613.8	3518.3	3238.8	2817.4	2085.7
62.5°	2189.6	2248.6	2481.7	3004.2	3609.5	3688.2	3672.7	3526.7	3262.6	2735.9	2005.6
65°	1627.8	1712.1	1941.0	2625.0	3584.3	3721.9	3679.8	3389.0	3151.7	2574.4	1830.1
67.5°	1172.8	1247.2	1414.3	2160.1	3341.3	3567.4	3518.3	3164.3	2896.1	2345.5	1587.1
70°	802.0	855.3	969.1	1573.0	2852.5	3084.3	3053.4	2828.6	2493.0	2073.0	1289.3
72.5°	566.0	588.5	661.5	1037.9	2167.1	2419.9	2383.4	2327.2	2002.8	1723.3	1002.8
75°	424.2	438.2	477.5	671.3	1462.1	1677.0	1643.3	1675.6	1495.8	1304.8	730.3
77.5°	160.1	174.2	271.1	428.4	865.2	1029.5	995.8	1015.4	831.5	658.7	363.8
80°	43.5	46.3	89.9	203.7	393.3	512.6	466.3	400.3	309.0	303.4	192.4
82.5°	18.3	21.1	40.7	109.6	140.4	140.4	118.0	146.1	118.0	141.9	92.7
85°	7.0	8.4	9.8	28.1	18.3	19.7	21.1	28.1	23.9	29.5	21.1
87.5°	0.0	0.0	0.0	1.4	1.4	2.8	1.4	2.8	4.2	4.2	4.2
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°	1134.8	1134.8	1134.8	1134.8	1134.8	1134.8	1134.8	1134.8	1134.8	1134.8	1134.8
2.5°	1127.8	1112.4	1089.9	1053.4	1015.4	994.4	967.7	963.5	935.4	932.6	921.3
5°	1134.8	1102.5	1044.9	974.7	905.9	852.5	813.2	792.1	751.4	751.4	740.2
7.5°	1140.4	1089.9	997.2	893.3	799.2	727.5	674.2	651.7	615.2	612.4	603.9
10°	1141.9	1074.4	945.2	810.4	695.2	622.2	570.2	544.9	512.6	509.8	504.2
12.5°	1153.1	1066.0	898.9	738.8	620.8	542.1	491.6	470.5	445.2	442.4	436.8
15°	1171.3	1066.0	859.5	678.4	554.8	481.7	438.2	418.5	400.3	397.5	394.7
17.5°	1189.6	1063.2	820.2	622.2	500.0	434.0	396.1	380.6	366.6	365.2	362.4
20°	1206.5	1061.8	780.9	574.4	457.9	394.7	365.2	351.1	339.9	339.9	338.5
22.5°	1223.3	1059.0	743.0	529.5	421.3	365.2	339.9	324.4	316.0	316.0	314.6
25°	1248.6	1059.0	707.9	491.6	391.9	342.7	317.4	306.2	299.2	297.8	297.8
27.5°	1278.1	1067.4	677.0	457.9	366.6	320.2	300.6	289.3	280.9	278.1	279.5
30°	1310.4	1074.4	648.9	428.4	342.7	303.4	282.3	271.1	262.6	259.8	261.2
32.5°	1342.7	1082.9	623.6	401.7	318.8	287.9	266.9	254.2	245.8	244.4	244.4
35°	1377.8	1091.3	598.3	379.2	299.2	272.5	252.8	238.8	233.1	230.3	231.7
37.5°	1412.9	1105.3	574.4	358.1	285.1	258.4	240.2	226.1	221.9	220.5	220.5
40°	1455.1	1126.4	564.6	344.1	272.5	245.8	230.3	216.3	212.1	212.1	212.1
42.5°	1490.2	1143.3	556.2	328.7	262.6	234.6	220.5	209.3	206.5	205.1	206.5
45°	1525.3	1158.7	544.9	314.6	250.0	223.3	212.1	200.8	198.0	198.0	198.0
47.5°	1560.4	1167.1	529.5	300.6	238.8	213.5	203.7	193.8	191.0	191.0	191.0
50°	1588.5	1174.2	507.0	285.1	226.1	205.1	195.2	185.4	182.6	182.6	182.6
52.5°	1616.6	1175.6	483.1	266.9	213.5	195.2	186.8	177.0	174.2	172.8	172.8
55°	1641.9	1174.2	455.1	245.8	199.4	184.0	177.0	168.5	162.9	157.3	160.1
57.5°	1660.1	1172.8	422.8	224.7	185.4	172.8	169.9	158.7	147.5	133.4	136.2
60°	1653.1	1157.3	387.6	198.0	169.9	161.5	161.5	146.1	126.4	119.4	120.8
62.5°	1608.1	1113.8	351.1	169.9	154.5	150.3	148.9	132.0	116.6	109.6	111.0
65°	1473.3	1004.2	297.8	144.7	139.0	137.6	137.6	122.2	108.1	99.7	101.1
67.5°	1268.3	842.7	243.0	122.2	123.6	126.4	126.4	112.4	98.3	89.9	91.3
70°	1016.9	658.7	193.8	105.3	106.7	111.0	113.8	101.1	88.5	80.1	80.1
72.5°	765.4	500.0	155.9	88.5	95.5	95.5	99.7	89.9	77.2	68.8	70.2
75°	554.8	358.1	123.6	74.4	82.9	81.5	81.5	75.8	66.0	60.4	60.4
77.5°	262.6	188.2	98.3	53.4	64.6	63.2	64.6	60.4	56.2	50.6	52.0
80°	129.2	92.7	63.2	37.9	44.9	46.3	50.6	47.8	46.3	42.1	42.1
82.5°	61.8	36.5	29.5	26.7	30.9	32.3	35.1	35.1	36.5	33.7	33.7
85°	16.9	9.8	12.6	16.9	19.7	21.1	23.9	25.3	25.3	23.9	25.3
87.5°	4.2	4.2	5.6	8.4	9.8	11.2	12.6	12.6	5.6	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)