

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: P799734

Luminaire Tested: **ARCH2-50-722-U-T3-HSS**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P799734
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: ARCH2-50-722-U-T3-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 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: 4690 lumens
Efficiency: N/A
Efficacy: 86.9 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



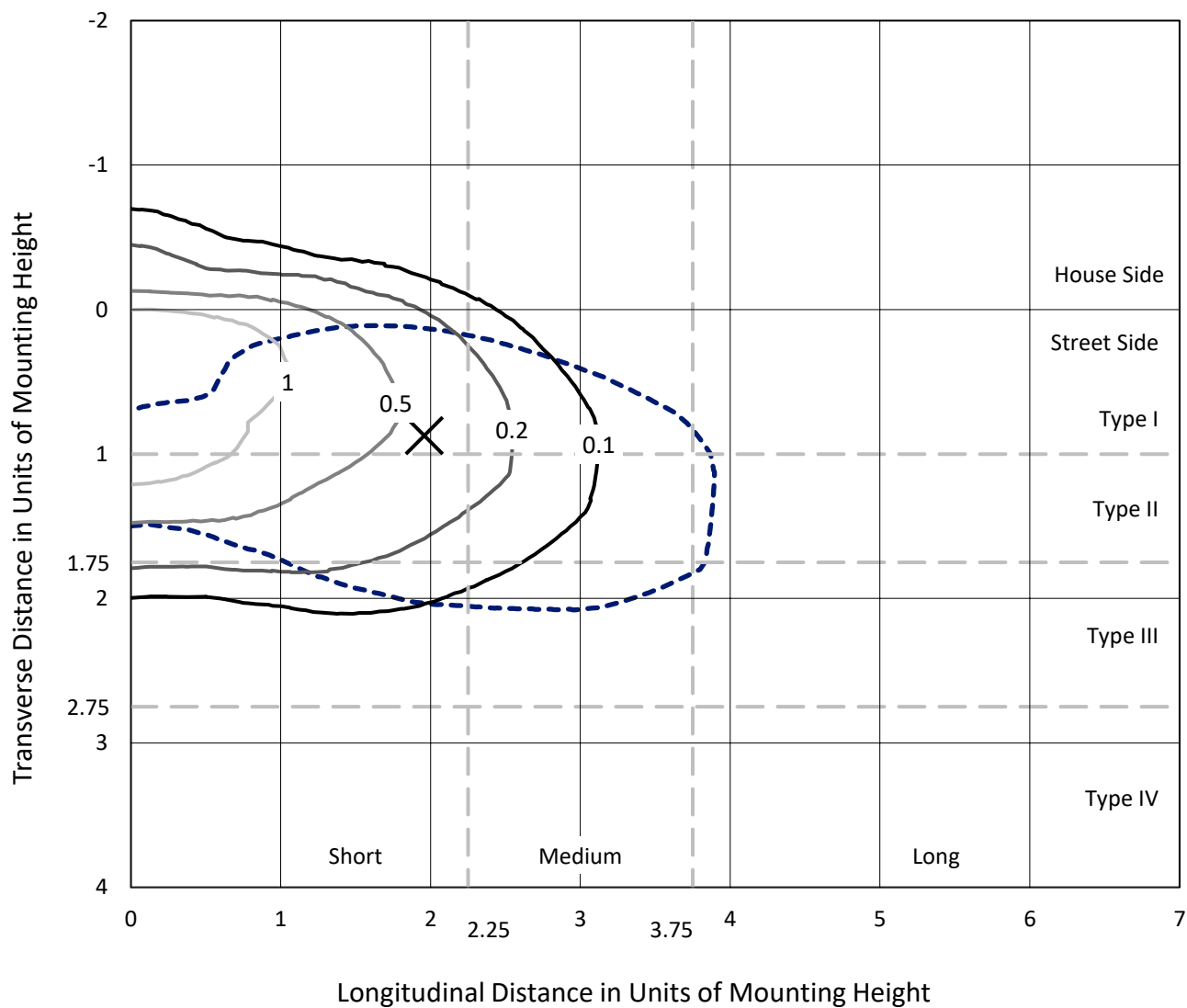
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd



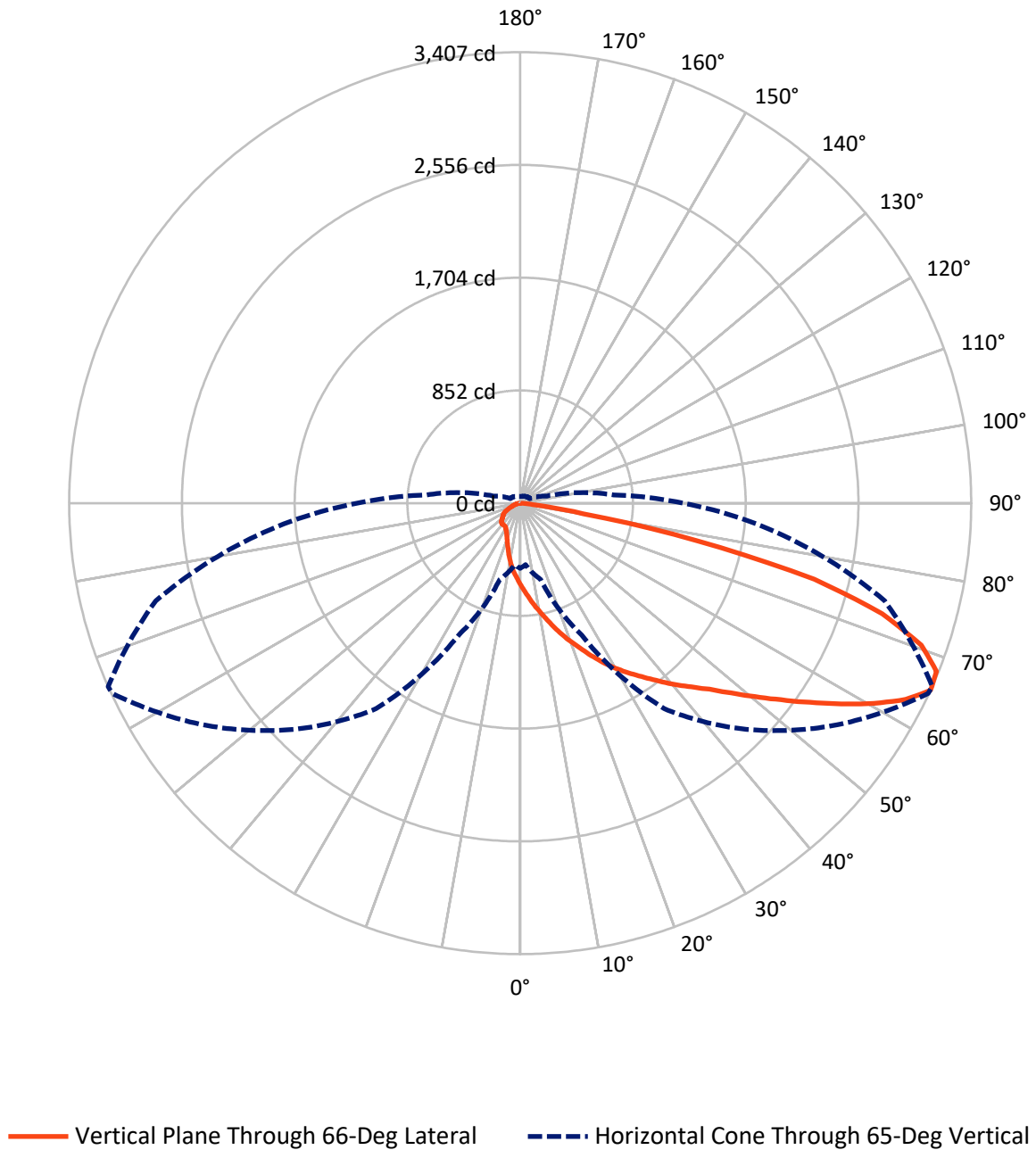
Based on 25 foot mounting height. Maximum calculated value = 1.8 fc

Type III - Short - N/A

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Luminous Intensity Polar Plot



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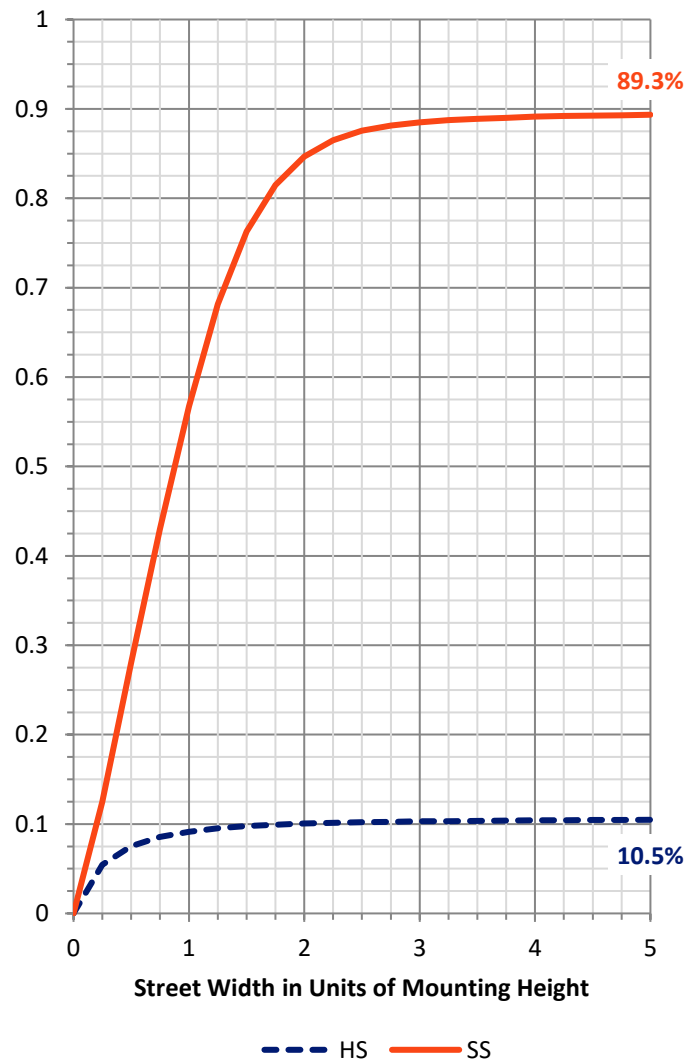
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	496.1	0.0	496.1
	% Fixture	10.6	0.0	10.6
Street Side	Lumens	4193.9	0.0	4193.9
	% Fixture	89.4	0.0	89.4
Total	Lumens	4690.0	0.0	4690.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.3	1.3
10°-20°	199.7	4.3
20°-30°	361.3	7.7
30°-40°	564.9	12.0
40°-50°	857.0	18.3
50°-60°	1088.8	23.2
60°-70°	1017.4	21.7
70°-80°	505.6	10.8
80°-90°	34.0	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°	4690.0	100.0
0°-180°	4690.0	100.0

Coefficient of Utilization



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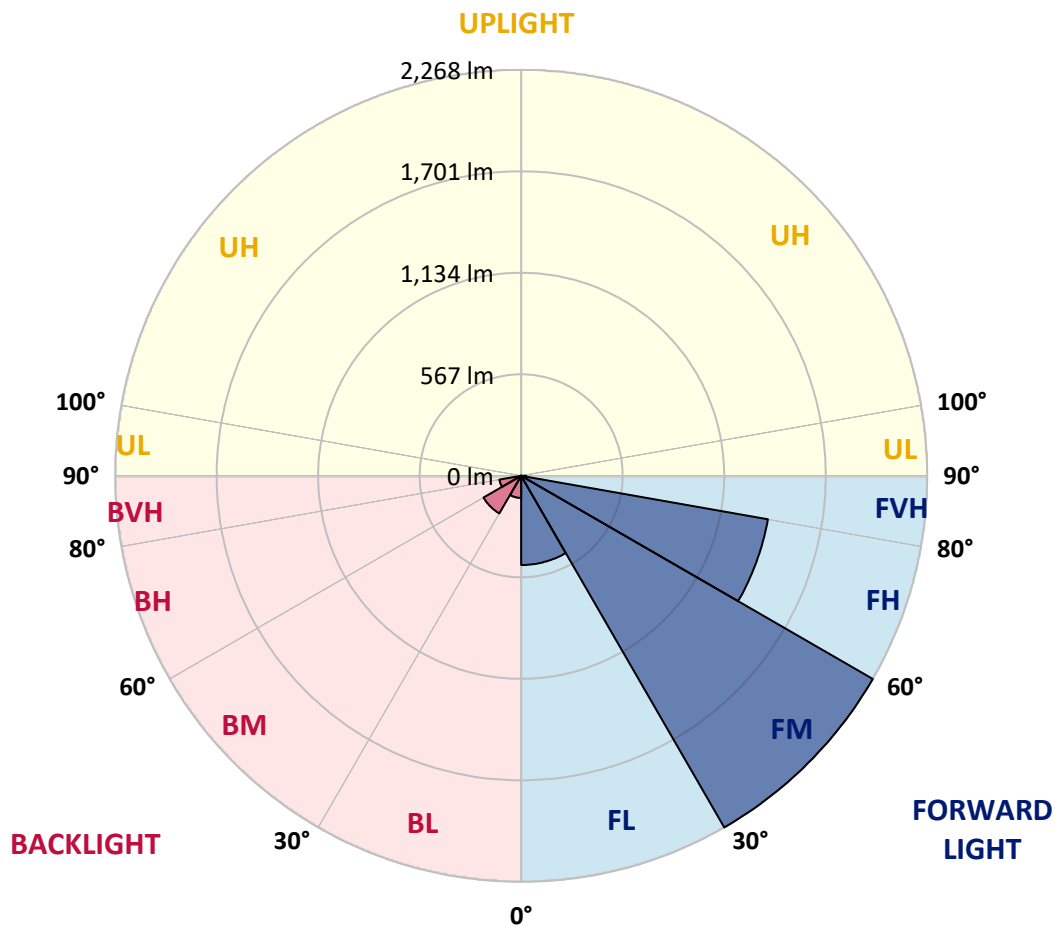
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	498.3	10.6			
FM	(30°-60°)	2268.1	48.4			
FH	(60°-80°)	1399.5	29.8			G1/1800
FVH	(80°-90°)	28.0	0.6			G1/100
BL	(0°-30°)	123.9	2.6	B1/500		
BM	(30°-60°)	242.6	5.2	B1/1000		
BH	(60°-80°)	123.5	2.6	B1/500		G1/500
BVH	(80°-90°)	6.0	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°	620.7	620.7	620.7	620.7	620.7	620.7	620.7	620.7	620.7	620.7	620.7
2.5°	725.0	730.9	733.8	734.8	712.2	702.3	692.5	669.9	665.0	652.2	635.5
5°	852.8	860.7	858.7	854.8	827.3	795.8	770.2	727.9	721.0	690.5	653.2
7.5°	978.8	985.6	983.7	968.9	938.4	894.2	851.9	789.9	780.1	730.9	670.9
10°	1084.0	1089.9	1088.9	1074.2	1037.8	983.7	932.5	849.9	838.1	768.2	685.6
12.5°	1170.6	1178.4	1177.5	1167.6	1135.2	1076.1	1018.1	918.7	904.0	813.5	706.3
15°	1238.4	1248.3	1248.3	1244.3	1221.7	1172.5	1106.6	994.5	976.8	865.6	731.9
17.5°	1279.8	1287.6	1294.5	1301.4	1285.7	1248.3	1188.3	1070.2	1051.5	916.8	758.4
20°	1301.4	1309.3	1314.2	1328.9	1331.9	1313.2	1266.0	1145.0	1125.3	974.8	788.9
22.5°	1336.8	1343.7	1344.7	1357.5	1363.4	1368.3	1338.8	1218.8	1203.0	1038.8	823.3
25°	1395.8	1403.7	1400.7	1406.6	1407.6	1413.5	1410.6	1303.4	1287.6	1111.5	864.6
27.5°	1471.6	1481.4	1479.4	1473.5	1464.7	1459.8	1472.6	1388.9	1374.2	1184.3	906.9
30°	1553.2	1565.0	1562.1	1550.3	1526.7	1506.0	1523.7	1469.6	1455.8	1259.1	954.2
32.5°	1635.8	1649.6	1648.6	1629.0	1588.6	1553.2	1579.8	1545.3	1535.5	1339.8	1005.3
35°	1689.9	1707.7	1705.7	1693.9	1641.7	1611.3	1643.7	1623.1	1616.2	1438.1	1079.1
37.5°	1777.5	1796.2	1779.5	1749.9	1689.9	1674.2	1713.6	1710.6	1705.7	1542.4	1156.8
40°	1990.0	2017.5	1973.2	1852.3	1753.9	1740.1	1796.2	1808.0	1803.1	1645.7	1226.6
42.5°	2212.3	2253.6	2184.7	2017.5	1870.0	1819.8	1886.7	1903.4	1897.5	1734.2	1289.6
45°	2347.0	2364.7	2295.9	2166.0	2075.5	1916.2	1983.1	2010.6	2005.7	1840.4	1370.3
47.5°	2457.2	2450.3	2371.6	2284.1	2300.8	2051.9	2092.3	2146.4	2142.4	1957.5	1458.8
50°	2480.8	2465.1	2433.6	2378.5	2422.8	2189.6	2207.4	2300.8	2296.9	2087.3	1548.3
52.5°	2314.6	2293.9	2379.5	2425.7	2411.0	2290.0	2334.2	2470.0	2468.0	2228.0	1633.9
55°	1899.5	1882.7	2112.9	2352.0	2398.2	2360.8	2474.9	2646.1	2656.9	2377.5	1711.6
57.5°	1494.2	1476.5	1702.7	2167.0	2351.0	2425.7	2639.2	2847.7	2861.5	2539.8	1785.4
60°	1191.2	1164.7	1337.8	1875.9	2262.4	2475.9	2797.6	3069.1	3071.0	2688.4	1830.6
62.5°	809.6	780.1	971.9	1507.0	2113.9	2483.8	2919.5	3259.9	3267.8	2799.5	1838.5
65°	491.8	467.2	597.1	1100.7	1894.5	2416.9	2921.5	3400.5	3407.4	2850.7	1791.3
67.5°	285.3	275.4	341.3	685.6	1530.6	2236.9	2798.5	3378.9	3391.7	2829.0	1684.0
70°	166.2	165.3	189.8	339.4	1080.1	1879.8	2524.1	3196.9	3215.6	2715.9	1519.8
72.5°	122.0	123.9	133.8	182.0	625.6	1353.5	2137.5	2831.0	2859.5	2494.6	1285.7
75°	96.4	97.4	106.2	123.9	328.5	765.3	1601.4	2272.3	2294.9	2100.1	1004.3
77.5°	71.8	73.8	80.7	87.5	152.5	351.2	901.0	1399.8	1362.4	1152.9	484.9
80°	52.1	57.1	60.0	63.0	80.7	135.7	270.5	487.9	484.0	503.6	229.2
82.5°	33.4	37.4	40.3	42.3	48.2	64.9	80.7	109.2	118.0	195.8	91.5
85°	14.8	16.7	18.7	22.6	20.7	22.6	33.4	21.6	18.7	29.5	16.7
87.5°	0.0	0.0	3.0	4.9	3.9	2.0	5.9	3.9	3.0	3.0	3.0
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°	620.7	620.7	620.7	620.7	620.7	620.7	620.7	620.7	620.7	620.7	620.7
2.5°	626.6	615.8	593.2	571.5	558.7	542.0	527.2	513.5	512.5	508.6	501.7
5°	634.5	613.8	571.5	531.2	500.7	468.2	440.7	419.0	411.2	405.3	397.4
7.5°	642.3	609.9	546.9	487.9	439.7	394.5	362.0	332.5	323.6	315.8	310.8
10°	645.3	603.0	518.4	439.7	376.7	328.5	294.1	272.5	264.6	260.7	257.7
12.5°	654.1	599.1	491.8	394.5	321.7	277.4	252.8	240.0	237.1	234.1	231.2
15°	665.9	599.1	465.3	350.2	278.4	243.0	228.2	219.4	217.4	216.4	214.4
17.5°	678.7	599.1	439.7	312.8	246.9	220.3	209.5	204.6	203.6	202.6	201.7
20°	696.4	600.0	412.2	280.3	224.3	203.6	194.8	188.9	187.9	186.9	186.9
22.5°	714.1	602.0	385.6	255.8	209.5	190.8	180.0	174.1	172.1	172.1	172.1
25°	736.8	607.9	361.0	235.1	196.7	179.0	165.3	160.3	159.4	159.4	158.4
27.5°	763.3	614.8	339.4	219.4	183.9	165.3	151.5	146.6	144.6	144.6	143.6
30°	791.9	621.7	321.7	207.6	171.2	151.5	138.7	132.8	130.8	131.8	130.8
32.5°	823.3	631.5	307.9	199.7	159.4	139.7	127.9	121.0	120.0	120.0	119.0
35°	876.4	659.1	305.9	195.8	149.5	130.8	119.0	112.1	111.2	111.2	110.2
37.5°	933.5	690.5	314.8	193.8	141.6	123.0	112.1	105.3	104.3	104.3	104.3
40°	981.7	714.1	324.6	193.8	136.7	116.1	106.2	100.3	100.3	100.3	100.3
42.5°	1014.2	716.1	322.6	193.8	132.8	111.2	102.3	96.4	96.4	97.4	96.4
45°	1062.4	725.9	314.8	190.8	129.8	107.2	98.4	93.4	92.5	93.4	93.4
47.5°	1119.4	743.7	306.9	179.0	128.9	103.3	95.4	89.5	88.5	89.5	88.5
50°	1173.5	759.4	303.0	163.3	126.9	99.4	91.5	85.6	84.6	85.6	84.6
52.5°	1218.8	766.3	296.1	152.5	122.0	95.4	87.5	81.6	79.7	80.7	80.7
55°	1255.2	764.3	286.2	143.6	113.1	91.5	82.6	77.7	74.8	74.8	73.8
57.5°	1288.6	765.3	277.4	134.8	103.3	85.6	78.7	72.8	68.9	67.9	66.9
60°	1301.4	760.4	261.7	123.0	93.4	80.7	73.8	66.9	63.0	62.0	61.0
62.5°	1283.7	742.7	241.0	102.3	84.6	74.8	68.9	62.0	58.0	57.1	56.1
65°	1233.5	709.2	209.5	80.7	76.7	67.9	63.0	58.0	53.1	51.2	50.2
67.5°	1147.9	661.0	170.2	64.9	67.9	62.0	59.0	53.1	47.2	45.2	44.3
70°	1026.0	597.1	127.9	55.1	60.0	55.1	53.1	47.2	42.3	40.3	39.3
72.5°	854.8	493.8	89.5	47.2	52.1	48.2	46.2	42.3	37.4	34.4	34.4
75°	646.3	354.1	59.0	40.3	43.3	41.3	38.4	35.4	32.5	30.5	29.5
77.5°	278.4	137.7	36.4	30.5	35.4	34.4	30.5	28.5	27.5	25.6	25.6
80°	120.0	56.1	22.6	22.6	25.6	24.6	23.6	21.6	21.6	20.7	19.7
82.5°	44.3	22.6	13.8	16.7	18.7	16.7	16.7	16.7	16.7	15.7	15.7
85°	10.8	6.9	6.9	9.8	10.8	9.8	10.8	9.8	9.8	9.8	8.9
87.5°	3.0	3.0	3.9	3.9	3.9	3.9	3.9	3.0	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)