

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: P800152

Luminaire Tested: **ARCH2-80-730-U-T4W-HSS**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P800152
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: ARCH2-80-730-U-T4W-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 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: 7611 lumens
Efficiency: N/A
Efficacy: 90.3 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - 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

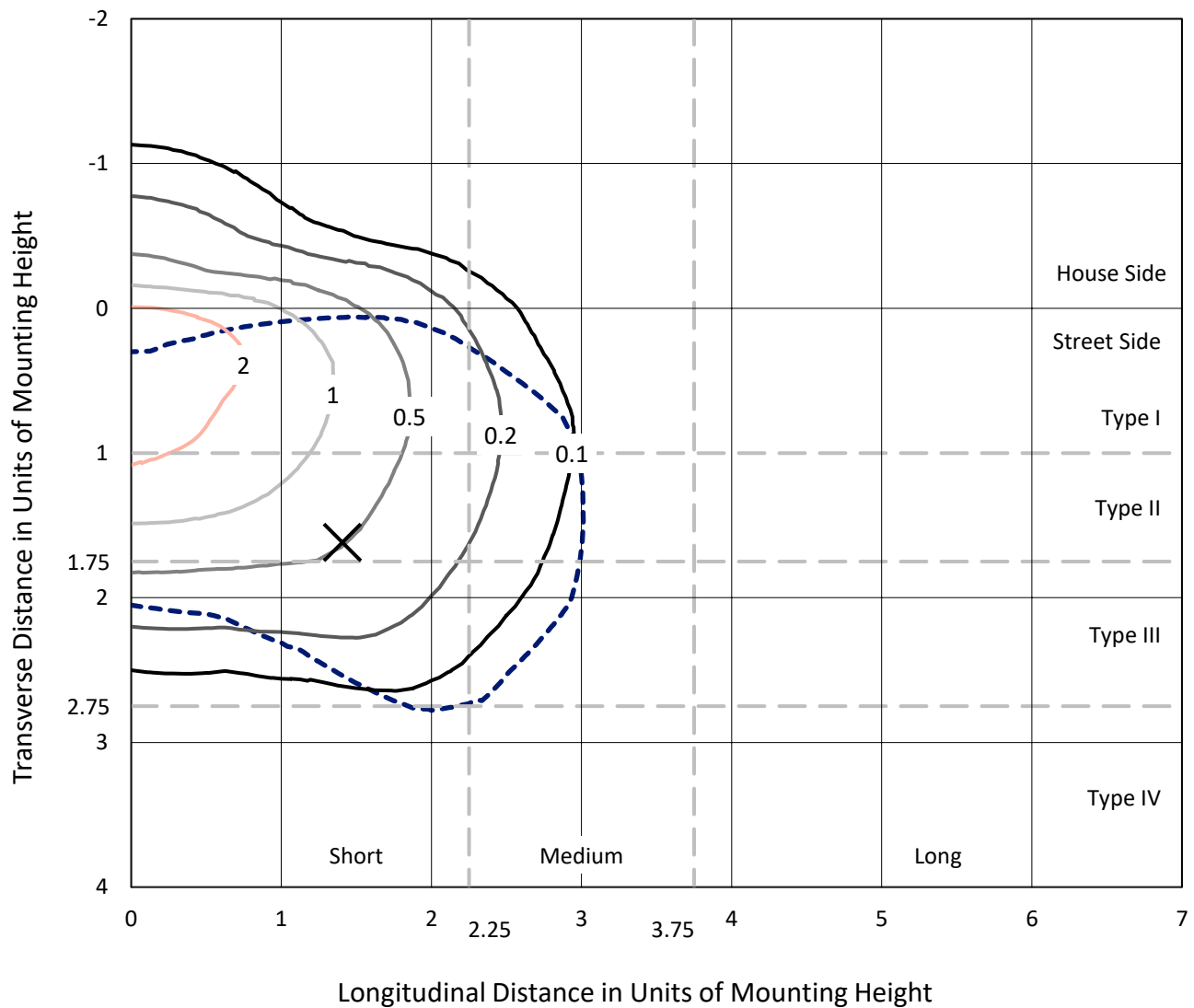


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Iso-Footcandle Lines of Horizontal Illumination

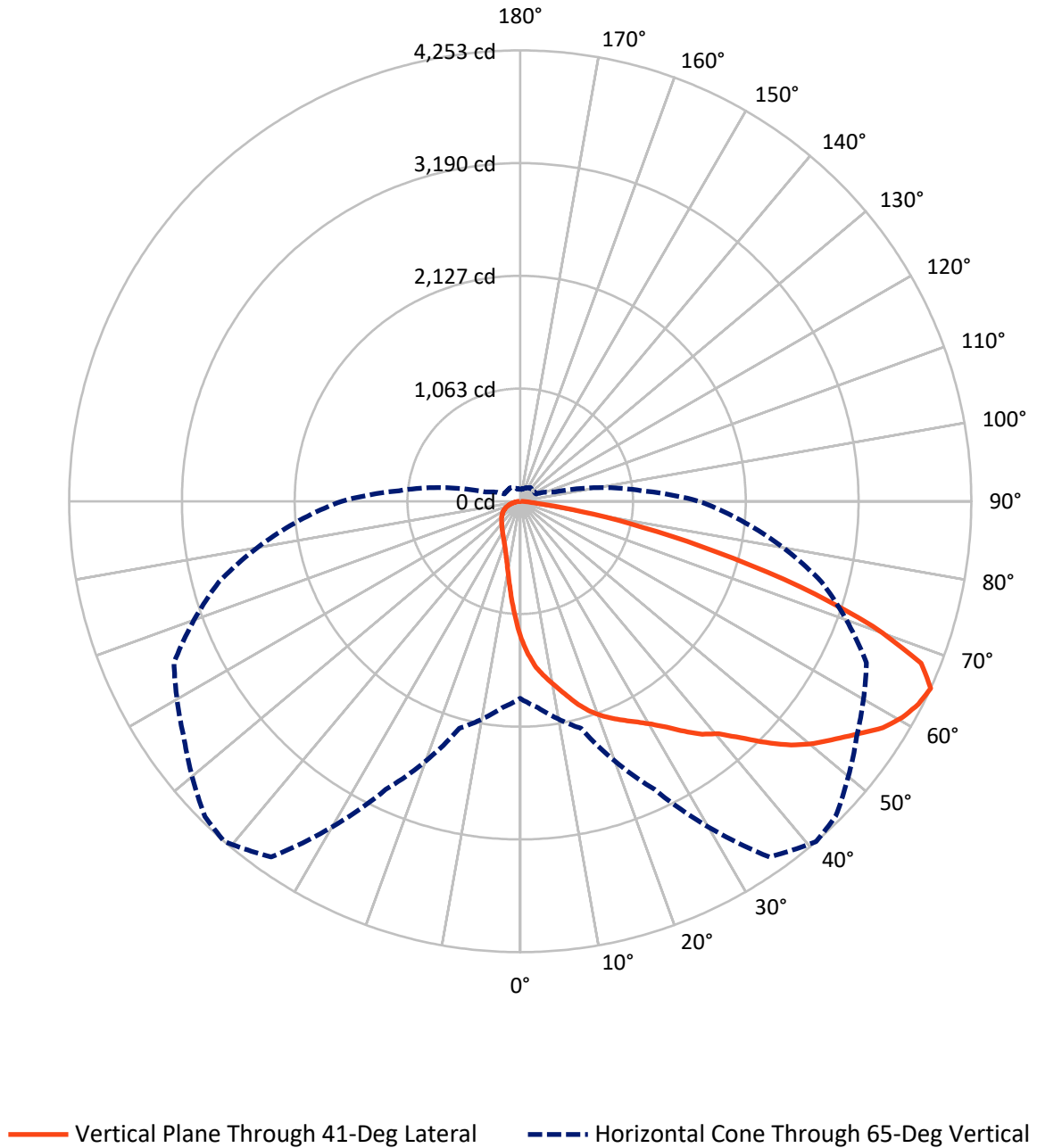
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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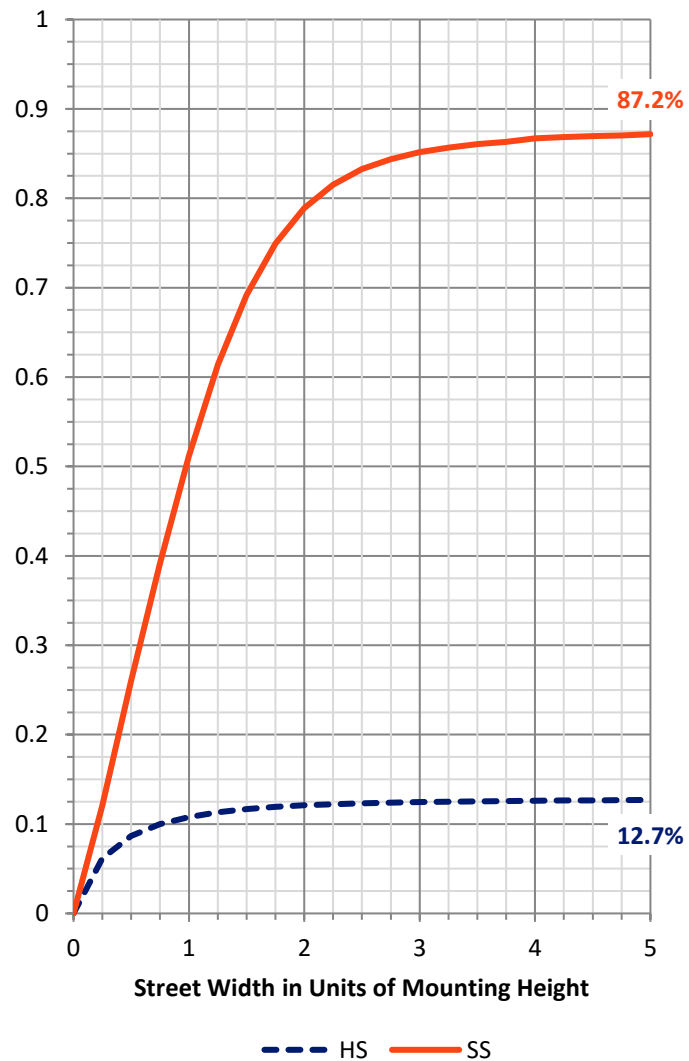
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	977.1	0.0	977.1
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	6633.9	0.0	6633.9
	% Fixture	87.2	0.0	87.2
Total	Lumens	7611.0	0.0	7611.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.8	1.6
10°-20°	362.3	4.8
20°-30°	623.3	8.2
30°-40°	945.4	12.4
40°-50°	1385.0	18.2
50°-60°	1749.0	23.0
60°-70°	1640.0	21.5
70°-80°	730.9	9.6
80°-90°	54.1	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°	7611.0	100.0
0°-180°	7611.0	100.0

Coefficient of Utilization



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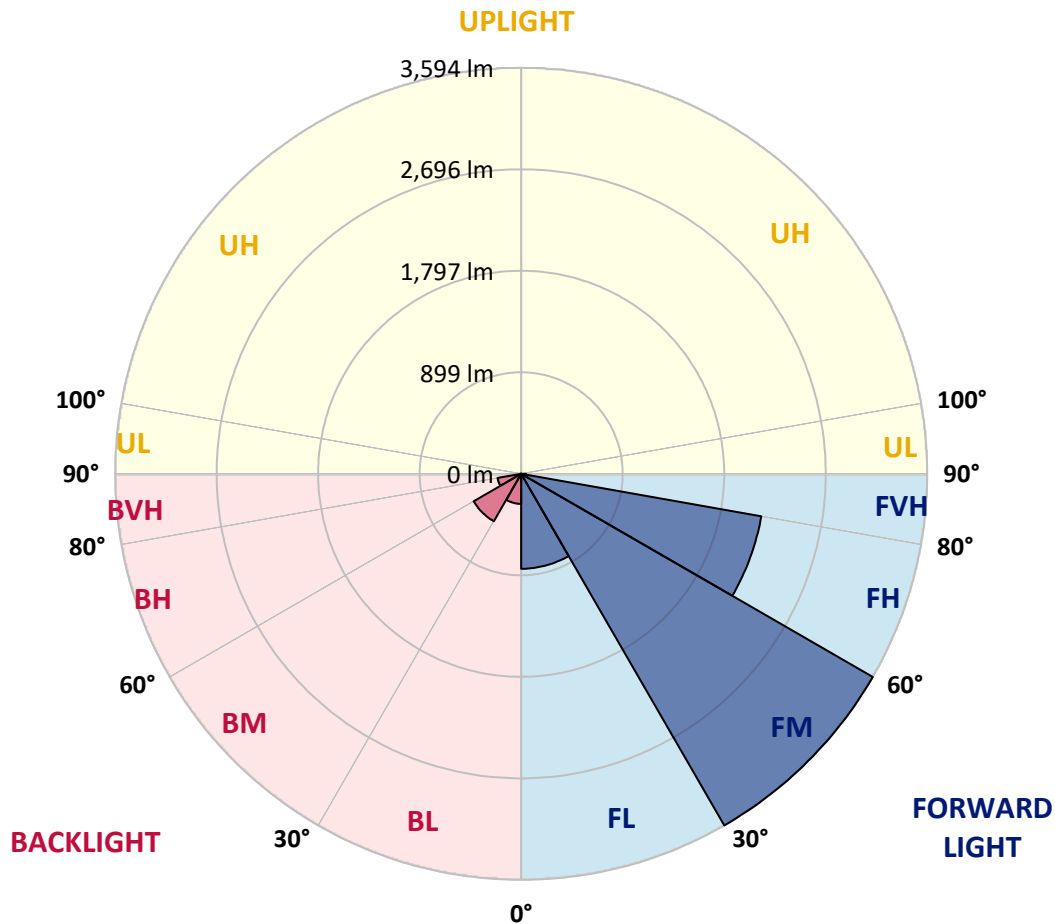
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	840.5	11.0			
FM	(30°-60°)	3594.2	47.2			
FH	(60°-80°)	2158.7	28.4			G2/5000
FVH	(80°-90°)	40.4	0.5			G1/100
BL	(0°-30°)	266.0	3.5	B1/500		
BM	(30°-60°)	485.2	6.4	B1/1000		
BH	(60°-80°)	212.3	2.8	B1/500		G1/500
BVH	(80°-90°)	13.7	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°	1296.9	1296.9	1296.9	1296.9	1296.9	1296.9	1296.9	1296.9	1296.9	1296.9	1296.9
2.5°	1495.9	1491.1	1487.9	1470.2	1470.2	1446.1	1447.7	1425.3	1398.0	1354.7	1308.1
5°	1637.1	1630.7	1622.7	1605.0	1598.6	1574.5	1571.3	1539.2	1492.7	1417.3	1333.8
7.5°	1760.7	1754.3	1743.1	1717.4	1699.7	1670.8	1662.8	1621.1	1569.7	1476.6	1359.5
10°	1873.1	1868.3	1853.8	1821.7	1797.6	1762.3	1747.9	1691.7	1627.5	1524.8	1380.3
12.5°	1987.0	1980.6	1961.4	1934.1	1905.2	1863.5	1845.8	1773.6	1691.7	1577.8	1410.8
15°	2093.0	2083.3	2068.9	2040.0	2014.3	1974.2	1954.9	1869.9	1770.4	1637.1	1451.0
17.5°	2162.0	2154.0	2141.1	2125.1	2104.2	2073.7	2054.5	1971.0	1849.0	1694.9	1492.7
20°	2203.7	2200.5	2195.7	2186.1	2176.4	2155.6	2141.1	2062.5	1934.1	1751.1	1532.8
22.5°	2235.8	2232.6	2231.0	2231.0	2232.6	2224.6	2215.0	2147.5	2015.9	1810.5	1569.7
25°	2285.6	2284.0	2280.8	2277.6	2288.8	2290.4	2287.2	2240.6	2118.7	1889.1	1616.3
27.5°	2354.6	2349.8	2343.4	2340.2	2351.4	2359.4	2365.8	2333.7	2227.8	1969.4	1669.2
30°	2460.5	2446.1	2430.0	2418.8	2426.8	2439.7	2454.1	2434.8	2340.2	2068.9	1723.8
32.5°	2585.7	2568.1	2531.2	2510.3	2531.2	2540.8	2552.0	2542.4	2457.3	2176.4	1778.4
35°	2738.2	2717.3	2678.8	2648.3	2685.2	2664.4	2659.6	2649.9	2568.1	2282.4	1839.4
37.5°	2991.8	2961.3	2900.3	2832.9	2832.9	2788.0	2770.3	2741.4	2667.6	2377.1	1898.8
40°	3285.5	3245.4	3166.7	3067.2	2975.7	2882.7	2871.4	2850.6	2784.7	2486.2	1966.2
42.5°	3608.1	3531.1	3422.0	3301.6	3153.9	3048.0	3022.3	2962.9	2898.7	2597.0	2033.6
45°	3966.1	3805.6	3646.7	3585.7	3341.7	3245.4	3197.2	3089.7	3017.5	2712.5	2104.2
47.5°	4023.8	3898.6	3792.7	3783.1	3516.6	3436.4	3381.8	3227.7	3145.9	2836.1	2178.0
50°	3991.7	3916.3	3927.5	3889.0	3645.1	3592.1	3550.4	3375.4	3272.7	2954.9	2245.5
52.5°	3856.9	3898.6	3962.9	3892.2	3767.0	3723.7	3702.8	3534.3	3391.5	3064.0	2306.4
55°	3696.4	3725.3	3863.3	3950.0	3908.3	3869.8	3850.5	3718.9	3508.6	3155.5	2362.6
57.5°	3462.1	3449.2	3601.7	3940.4	4055.9	4033.5	4012.6	3900.3	3617.8	3221.3	2397.9
60°	3110.6	3083.3	3275.9	3747.8	4104.1	4139.4	4129.8	4020.6	3701.2	3219.7	2383.5
62.5°	2502.3	2569.7	2836.1	3433.2	4125.0	4214.8	4197.2	4030.3	3728.5	3126.6	2292.0
65°	1860.2	1956.5	2218.2	2999.8	4096.1	4253.4	4205.2	3873.0	3601.7	2942.0	2091.4
67.5°	1340.2	1425.3	1616.3	2468.6	3818.4	4076.8	4020.6	3616.2	3309.6	2680.4	1813.7
70°	916.5	977.5	1107.5	1797.6	3259.8	3524.7	3489.4	3232.6	2849.0	2369.0	1473.4
72.5°	646.8	672.5	756.0	1186.1	2476.6	2765.5	2723.8	2659.6	2288.8	1969.4	1146.0
75°	484.7	500.8	545.7	767.2	1670.8	1916.4	1877.9	1914.8	1709.4	1491.1	834.6
77.5°	183.0	199.0	309.8	489.5	988.7	1176.5	1138.0	1160.4	950.2	752.8	415.7
80°	49.8	53.0	102.7	232.7	449.4	585.8	532.9	457.4	353.1	346.7	219.9
82.5°	20.9	24.1	46.5	125.2	160.5	160.5	134.8	166.9	134.8	162.1	105.9
85°	8.0	9.6	11.2	32.1	20.9	22.5	24.1	32.1	27.3	33.7	24.1
87.5°	0.0	0.0	0.0	1.6	1.6	3.2	1.6	3.2	4.8	4.8	4.8
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°	1296.9	1296.9	1296.9	1296.9	1296.9	1296.9	1296.9	1296.9	1296.9	1296.9	1296.9
2.5°	1288.8	1271.2	1245.5	1203.8	1160.4	1136.4	1105.9	1101.1	1069.0	1065.7	1052.9
5°	1296.9	1260.0	1194.2	1113.9	1035.3	974.3	929.3	905.2	858.7	858.7	845.9
7.5°	1303.3	1245.5	1139.6	1020.8	913.3	831.4	770.4	744.7	703.0	699.8	690.2
10°	1304.9	1227.9	1080.2	926.1	794.5	711.0	651.6	622.8	585.8	582.6	576.2
12.5°	1317.7	1218.2	1027.2	844.3	709.4	619.5	561.8	537.7	508.8	505.6	499.2
15°	1338.6	1218.2	982.3	775.2	634.0	550.5	500.8	478.3	457.4	454.2	451.0
17.5°	1359.5	1215.0	937.3	711.0	571.4	496.0	452.6	435.0	418.9	417.3	414.1
20°	1378.7	1213.4	892.4	656.5	523.2	451.0	417.3	401.3	388.4	388.4	386.8
22.5°	1398.0	1210.2	849.1	605.1	481.5	417.3	388.4	370.8	361.1	361.1	359.5
25°	1426.9	1210.2	808.9	561.8	447.8	391.6	362.7	349.9	341.9	340.3	340.3
27.5°	1460.6	1219.8	773.6	523.2	418.9	365.9	343.5	330.6	321.0	317.8	319.4
30°	1497.5	1227.9	741.5	489.5	391.6	346.7	322.6	309.8	300.1	296.9	298.5
32.5°	1534.4	1237.5	712.6	459.0	364.3	329.0	305.0	290.5	280.9	279.3	279.3
35°	1574.5	1247.1	683.7	433.4	341.9	311.4	288.9	272.9	266.4	263.2	264.8
37.5°	1614.7	1263.2	656.5	409.3	325.8	295.3	274.5	258.4	253.6	252.0	252.0
40°	1662.8	1287.2	645.2	393.2	311.4	280.9	263.2	247.2	242.4	242.4	242.4
42.5°	1703.0	1306.5	635.6	375.6	300.1	268.0	252.0	239.2	235.9	234.3	235.9
45°	1743.1	1324.2	622.8	359.5	285.7	255.2	242.4	229.5	226.3	226.3	226.3
47.5°	1783.2	1333.8	605.1	343.5	272.9	244.0	232.7	221.5	218.3	218.3	218.3
50°	1815.3	1341.8	579.4	325.8	258.4	234.3	223.1	211.9	208.7	208.7	208.7
52.5°	1847.4	1343.4	552.1	305.0	244.0	223.1	213.5	202.2	199.0	197.4	197.4
55°	1876.3	1341.8	520.0	280.9	227.9	210.3	202.2	192.6	186.2	179.8	183.0
57.5°	1897.2	1340.2	483.1	256.8	211.9	197.4	194.2	181.4	168.5	152.5	155.7
60°	1889.1	1322.6	443.0	226.3	194.2	184.6	184.6	166.9	144.5	136.4	138.0
62.5°	1837.8	1272.8	401.3	194.2	176.6	171.7	170.1	150.9	133.2	125.2	126.8
65°	1683.7	1147.6	340.3	165.3	158.9	157.3	157.3	139.6	123.6	114.0	115.6
67.5°	1449.4	963.0	277.7	139.6	141.2	144.5	144.5	128.4	112.4	102.7	104.3
70°	1162.1	752.8	221.5	120.4	122.0	126.8	130.0	115.6	101.1	91.5	91.5
72.5°	874.7	571.4	178.2	101.1	109.1	109.1	114.0	102.7	88.3	78.6	80.3
75°	634.0	409.3	141.2	85.1	94.7	93.1	93.1	86.7	75.4	69.0	69.0
77.5°	300.1	215.1	112.4	61.0	73.8	72.2	73.8	69.0	64.2	57.8	59.4
80°	147.7	105.9	72.2	43.3	51.4	53.0	57.8	54.6	53.0	48.2	48.2
82.5°	70.6	41.7	33.7	30.5	35.3	36.9	40.1	40.1	41.7	38.5	38.5
85°	19.3	11.2	14.4	19.3	22.5	24.1	27.3	28.9	28.9	27.3	28.9
87.5°	4.8	4.8	6.4	9.6	11.2	12.8	14.4	14.4	6.4	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)