

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: P799366

Luminaire Tested: **ARCH2-110-727-U-T3-HSS**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P799366
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: ARCH2-110-727-U-T3-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 800mA 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: 8795 lumens
Efficiency: N/A
Efficacy: 80.3 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): 109.5
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

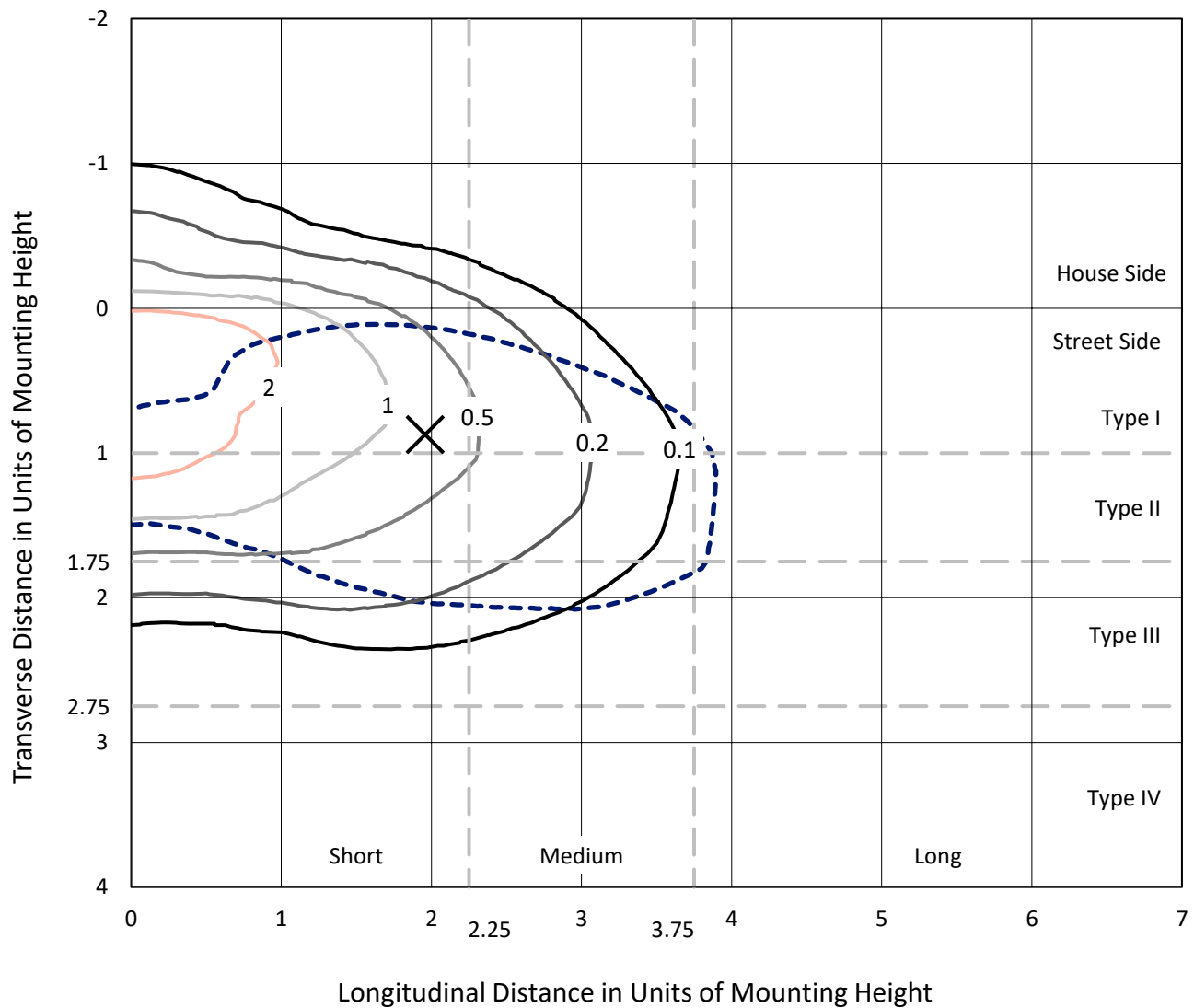


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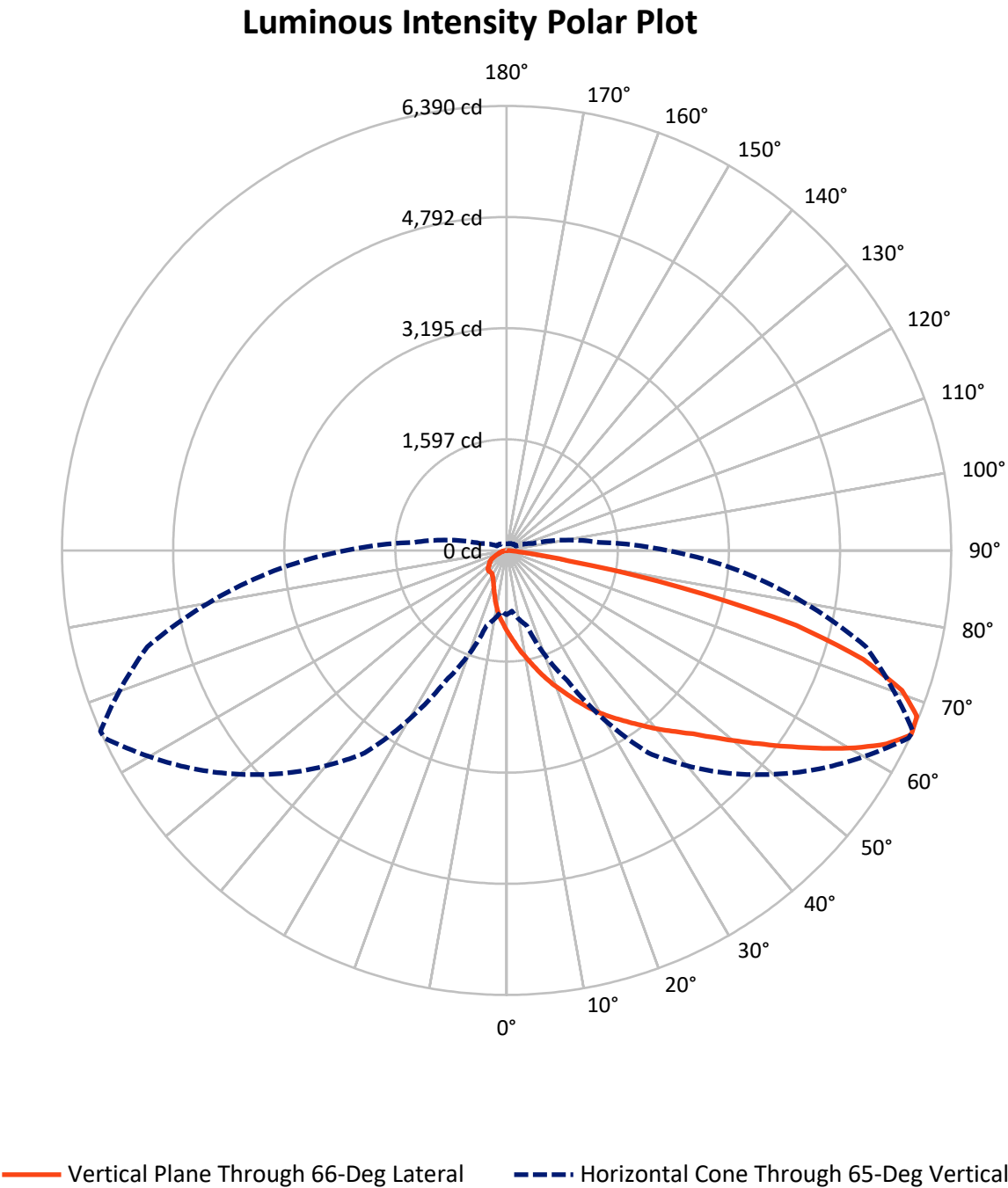
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 fc
Type III - Short - N/A

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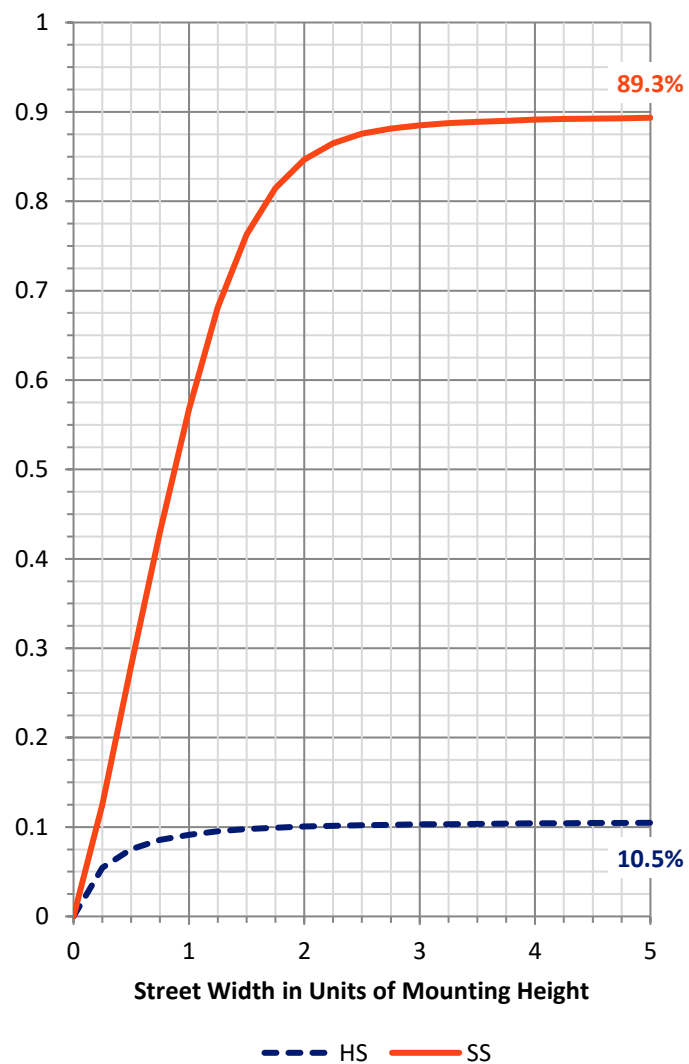
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	930.3	0.0	930.3
	% Fixture	10.6	0.0	10.6
Street Side	Lumens	7864.7	0.0	7864.7
	% Fixture	89.4	0.0	89.4
Total	Lumens	8795.0	0.0	8795.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.9	1.3
10°-20°	374.4	4.3
20°-30°	677.5	7.7
30°-40°	1059.4	12.0
40°-50°	1607.1	18.3
50°-60°	2041.9	23.2
60°-70°	1907.9	21.7
70°-80°	948.2	10.8
80°-90°	63.7	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°	8795.0	100.0
0°-180°	8795.0	100.0

Coefficient of Utilization



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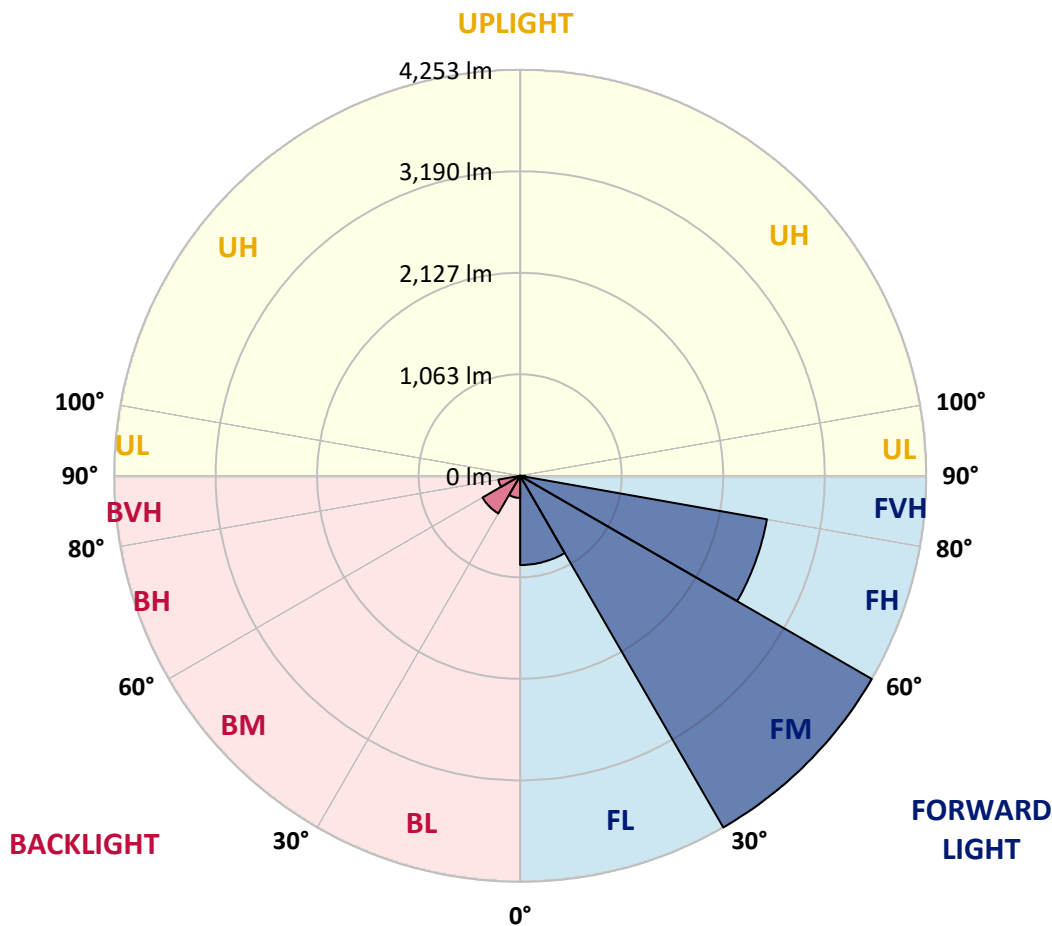
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	934.5	10.6			
FM	(30°-60°)	4253.4	48.4			
FH	(60°-80°)	2624.5	29.8			G2/5000
FVH	(80°-90°)	52.4	0.6			G1/100
BL	(0°-30°)	232.3	2.6	B1/500		
BM	(30°-60°)	455.0	5.2	B1/1000		
BH	(60°-80°)	231.7	2.6	B1/500		G1/500
BVH	(80°-90°)	11.3	0.1			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°	45°	55°	65°	66°	75°	85°
0°	1164.0	1164.0	1164.0	1164.0	1164.0	1164.0	1164.0	1164.0	1164.0	1164.0	1164.0
2.5°	1359.5	1370.6	1376.1	1377.9	1335.5	1317.1	1298.6	1256.2	1247.0	1223.0	1191.6
5°	1599.3	1614.1	1610.4	1603.0	1551.3	1492.3	1444.4	1365.0	1352.1	1294.9	1224.8
7.5°	1835.4	1848.3	1844.6	1817.0	1759.8	1676.8	1597.5	1481.2	1462.8	1370.6	1258.0
10°	2032.8	2043.9	2042.0	2014.4	1946.1	1844.6	1748.7	1593.8	1571.6	1440.7	1285.7
12.5°	2195.1	2209.9	2208.0	2189.6	2128.7	2018.0	1909.2	1722.9	1695.2	1525.5	1324.5
15°	2322.4	2340.9	2340.9	2333.5	2291.0	2198.8	2075.2	1864.9	1831.7	1623.3	1372.4
17.5°	2399.9	2414.6	2427.6	2440.5	2410.9	2340.9	2228.3	2007.0	1971.9	1719.2	1422.2
20°	2440.5	2455.2	2464.4	2492.1	2497.6	2462.6	2374.1	2147.2	2110.3	1828.0	1479.4
22.5°	2506.9	2519.8	2521.6	2545.6	2556.7	2565.9	2510.6	2285.5	2256.0	1947.9	1544.0
25°	2617.5	2632.3	2626.8	2637.8	2639.7	2650.8	2645.2	2444.2	2414.6	2084.4	1621.4
27.5°	2759.6	2778.0	2774.3	2763.3	2746.7	2737.5	2761.4	2604.6	2577.0	2221.0	1700.8
30°	2912.7	2934.8	2929.3	2907.2	2862.9	2824.1	2857.4	2755.9	2730.1	2361.1	1789.3
32.5°	3067.6	3093.5	3091.6	3054.7	2979.1	2912.7	2962.5	2897.9	2879.5	2512.4	1885.2
35°	3169.1	3202.3	3198.6	3176.5	3078.7	3021.5	3082.4	3043.7	3030.7	2696.9	2023.6
37.5°	3333.3	3368.3	3337.0	3281.6	3169.1	3139.6	3213.4	3207.8	3198.6	2892.4	2169.3
40°	3731.7	3783.4	3700.4	3473.5	3289.0	3263.2	3368.3	3390.5	3381.2	3086.1	2300.3
42.5°	4148.6	4226.1	4097.0	3783.4	3506.7	3412.6	3538.0	3569.4	3558.3	3252.1	2418.3
45°	4401.3	4434.5	4305.4	4061.9	3892.2	3593.4	3718.8	3770.5	3761.2	3451.3	2569.6
47.5°	4607.9	4595.0	4447.4	4283.3	4314.6	3847.9	3923.6	4025.0	4017.6	3670.8	2735.6
50°	4652.2	4622.7	4563.6	4460.3	4543.4	4106.2	4139.4	4314.6	4307.2	3914.3	2903.5
52.5°	4340.4	4301.7	4462.2	4548.9	4521.2	4294.3	4377.3	4631.9	4628.2	4178.1	3064.0
55°	3562.0	3530.6	3962.3	4410.5	4497.2	4427.1	4641.1	4962.1	4982.4	4458.5	3209.7
57.5°	2802.0	2768.8	3193.1	4063.7	4408.7	4548.9	4949.2	5340.2	5366.1	4762.9	3348.0
60°	2233.9	2184.1	2508.7	3517.7	4242.7	4643.0	5246.2	5755.3	5759.0	5041.4	3432.9
62.5°	1518.1	1462.8	1822.5	2826.0	3964.1	4657.7	5474.9	6113.1	6127.9	5249.9	3447.6
65°	922.3	876.2	1119.7	2064.2	3552.8	4532.3	5478.6	6376.9	6389.8	5345.8	3359.1
67.5°	534.9	516.5	640.1	1285.7	2870.3	4194.7	5248.0	6336.4	6360.3	5305.2	3158.0
70°	311.7	309.9	356.0	636.4	2025.4	3525.1	4733.4	5995.1	6030.1	5093.1	2850.0
72.5°	228.7	232.4	250.9	341.3	1173.2	2538.2	4008.4	5308.9	5362.4	4678.0	2410.9
75°	180.8	182.6	199.2	232.4	616.1	1435.1	3003.1	4261.1	4303.6	3938.3	1883.4
77.5°	134.7	138.3	151.3	164.2	285.9	658.5	1689.7	2624.9	2554.8	2161.9	909.4
80°	97.8	107.0	112.5	118.1	151.3	254.6	507.3	914.9	907.6	944.5	429.8
82.5°	62.7	70.1	75.6	79.3	90.4	121.7	151.3	204.8	221.4	367.1	171.6
85°	27.7	31.4	35.0	42.4	38.7	42.4	62.7	40.6	35.0	55.3	31.4
87.5°	0.0	0.0	5.5	9.2	7.4	3.7	11.1	7.4	5.5	5.5	5.5
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°	1164.0	1164.0	1164.0	1164.0	1164.0	1164.0	1164.0	1164.0	1164.0	1164.0	1164.0
2.5°	1175.0	1154.7	1112.3	1071.7	1047.8	1016.4	988.7	962.9	961.1	953.7	940.8
5°	1189.8	1151.1	1071.7	996.1	938.9	878.1	826.4	785.8	771.1	760.0	745.2
7.5°	1204.6	1143.7	1025.6	914.9	824.6	739.7	678.8	623.5	606.9	592.1	582.9
10°	1210.1	1130.8	972.1	824.6	706.5	616.1	551.5	511.0	496.2	488.8	483.3
12.5°	1226.7	1123.4	922.3	739.7	603.2	520.2	474.1	450.1	444.6	439.0	433.5
15°	1248.8	1123.4	872.5	656.7	522.0	455.6	428.0	411.4	407.7	405.8	402.1
17.5°	1272.8	1123.4	824.6	586.6	463.0	413.2	392.9	383.7	381.8	380.0	378.2
20°	1306.0	1125.2	772.9	525.7	420.6	381.8	365.2	354.2	352.3	350.5	350.5
22.5°	1339.2	1128.9	723.1	479.6	392.9	357.9	337.6	326.5	322.8	322.8	322.8
25°	1381.6	1140.0	677.0	440.9	368.9	335.7	309.9	300.7	298.8	298.8	297.0
27.5°	1431.4	1152.9	636.4	411.4	344.9	309.9	284.1	274.9	271.2	271.2	269.3
30°	1484.9	1165.8	603.2	389.2	321.0	284.1	260.1	249.0	245.3	247.2	245.3
32.5°	1544.0	1184.3	577.4	374.5	298.8	261.9	239.8	226.9	225.0	225.0	223.2
35°	1643.6	1235.9	573.7	367.1	280.4	245.3	223.2	210.3	208.4	208.4	206.6
37.5°	1750.6	1294.9	590.3	363.4	265.6	230.6	210.3	197.4	195.5	195.5	195.5
40°	1841.0	1339.2	608.7	363.4	256.4	217.7	199.2	188.2	188.2	188.2	188.2
42.5°	1901.8	1342.9	605.0	363.4	249.0	208.4	191.8	180.8	180.8	182.6	180.8
45°	1992.2	1361.3	590.3	357.9	243.5	201.1	184.5	175.2	173.4	175.2	175.2
47.5°	2099.2	1394.6	575.5	335.7	241.6	193.7	178.9	167.9	166.0	167.9	166.0
50°	2200.7	1424.1	568.2	306.2	238.0	186.3	171.6	160.5	158.6	160.5	158.6
52.5°	2285.5	1437.0	555.2	285.9	228.7	178.9	164.2	153.1	149.4	151.3	151.3
55°	2353.8	1433.3	536.8	269.3	212.1	171.6	155.0	145.7	140.2	140.2	138.3
57.5°	2416.5	1435.1	520.2	252.7	193.7	160.5	147.6	136.5	129.1	127.3	125.4
60°	2440.5	1425.9	490.7	230.6	175.2	151.3	138.3	125.4	118.1	116.2	114.4
62.5°	2407.3	1392.7	451.9	191.8	158.6	140.2	129.1	116.2	108.8	107.0	105.1
65°	2313.2	1330.0	392.9	151.3	143.9	127.3	118.1	108.8	99.6	95.9	94.1
67.5°	2152.7	1239.6	319.1	121.7	127.3	116.2	110.7	99.6	88.5	84.9	83.0
70°	1924.0	1119.7	239.8	103.3	112.5	103.3	99.6	88.5	79.3	75.6	73.8
72.5°	1603.0	926.0	167.9	88.5	97.8	90.4	86.7	79.3	70.1	64.6	64.6
75°	1211.9	664.1	110.7	75.6	81.2	77.5	71.9	66.4	60.9	57.2	55.3
77.5°	522.0	258.3	68.3	57.2	66.4	64.6	57.2	53.5	51.7	48.0	48.0
80°	225.0	105.1	42.4	42.4	48.0	46.1	44.3	40.6	40.6	38.7	36.9
82.5°	83.0	42.4	25.8	31.4	35.0	31.4	31.4	31.4	31.4	29.5	29.5
85°	20.3	12.9	12.9	18.4	20.3	18.4	20.3	18.4	18.4	18.4	16.6
87.5°	5.5	5.5	7.4	7.4	7.4	7.4	7.4	5.5	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)