

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: P836882

Luminaire Tested: **ARCH3-90-722-U-T2R-HSS**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836882
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-329-2)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-90-722-U-T2R-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2200K, 735mA LIGHTSQUARE WITH 40 LEDS AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8992 lumens
Efficiency: N/A
Efficacy: 96.6 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 93.1
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

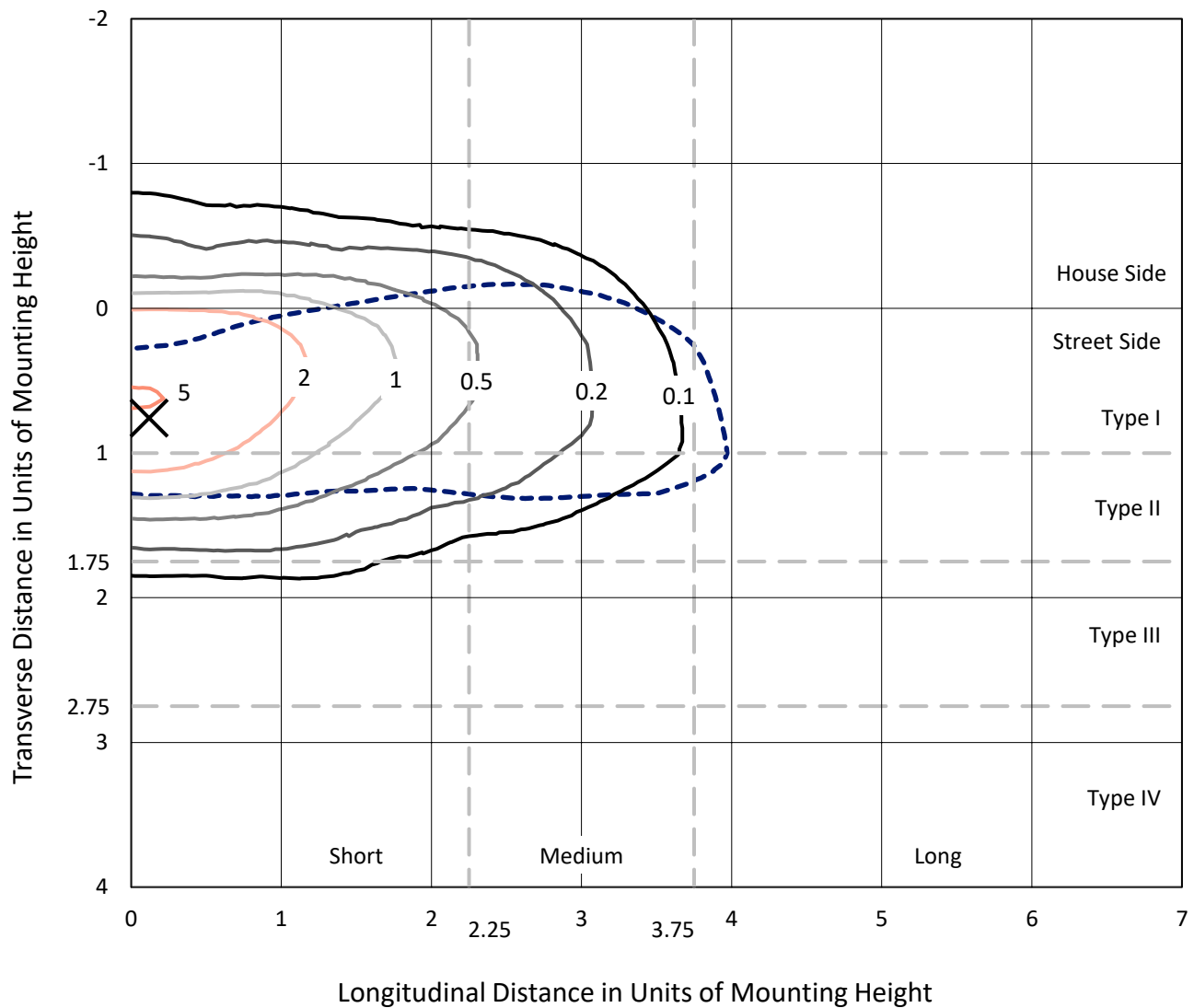


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

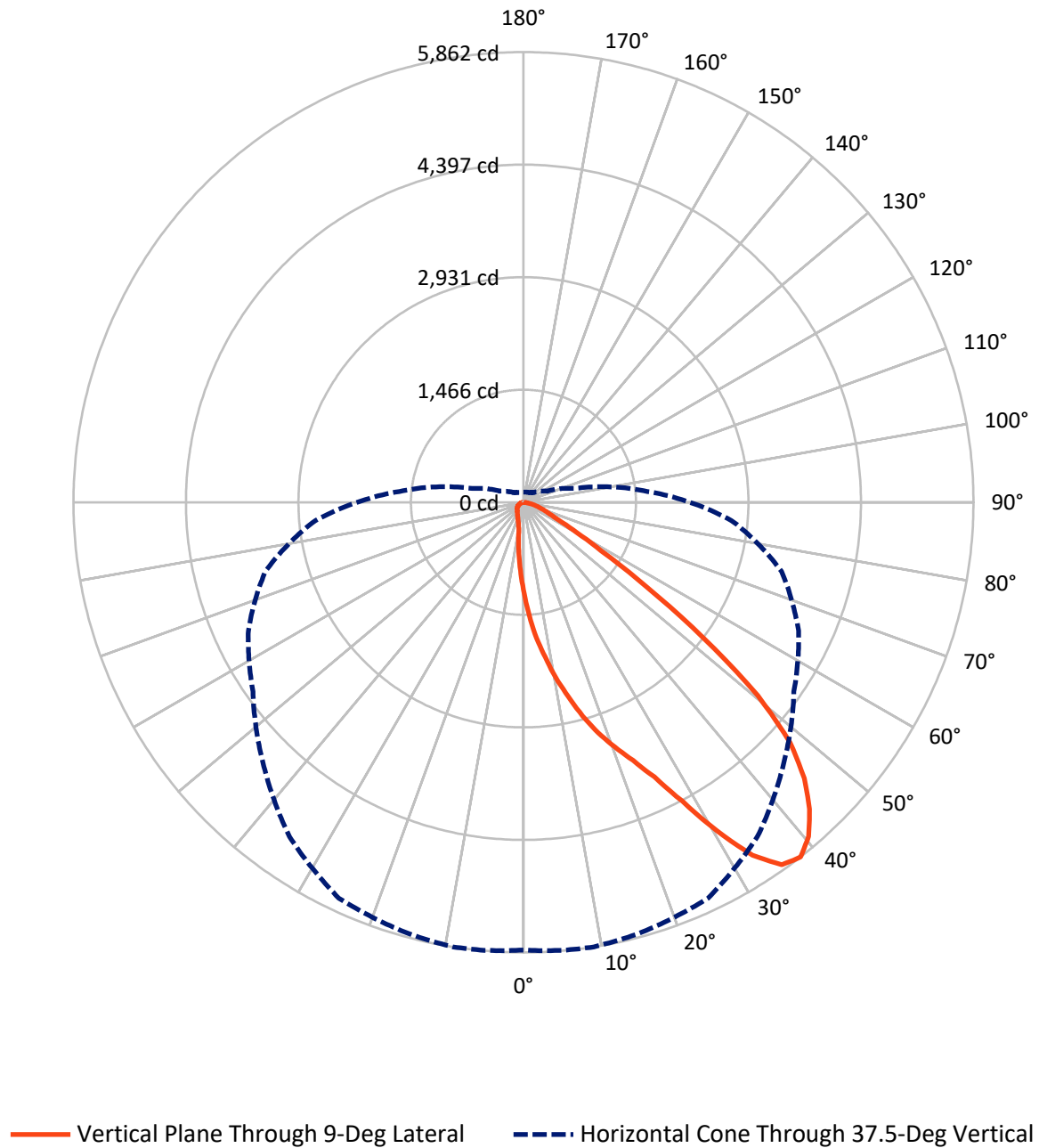


Based on 25 foot mounting height. Maximum calculated value = 5.3 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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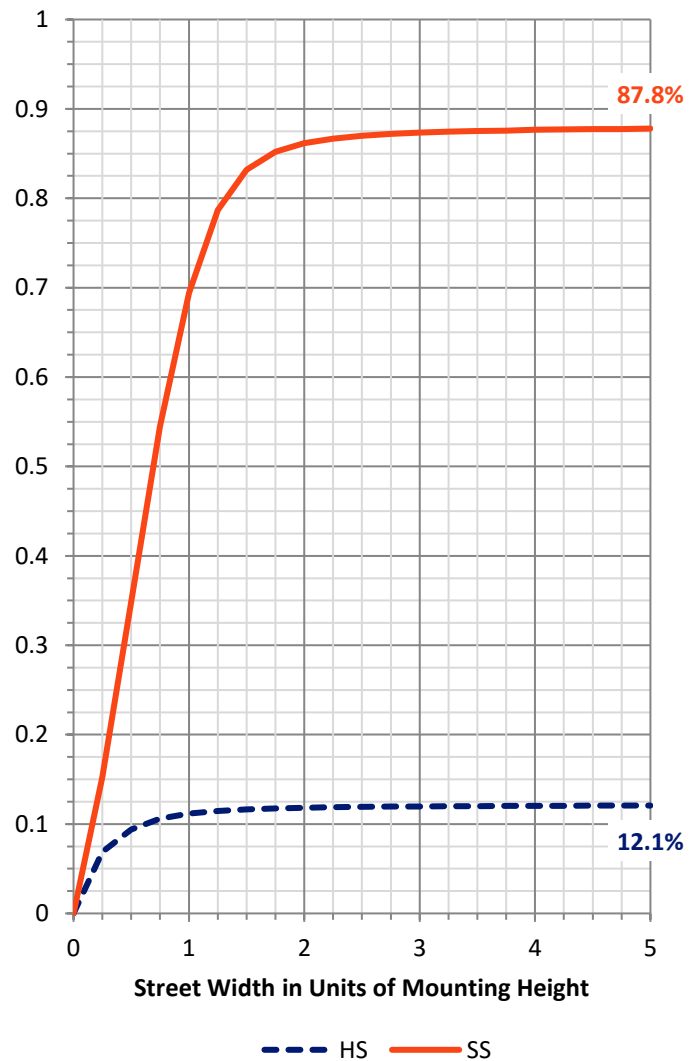
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1093.6	0.0	1093.6
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	7898.4	0.0	7898.4
	% Fixture	87.8	0.0	87.8
Total	Lumens	8992.0	0.0	8992.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.5	1.3
10°-20°	415.3	4.6
20°-30°	853.3	9.5
30°-40°	1508.2	16.8
40°-50°	2003.5	22.3
50°-60°	1900.2	21.1
60°-70°	1449.7	16.1
70°-80°	702.8	7.8
80°-90°	39.6	0.4
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°	8992.0	100.0
0°-180°	8992.0	100.0

Coefficient of Utilization



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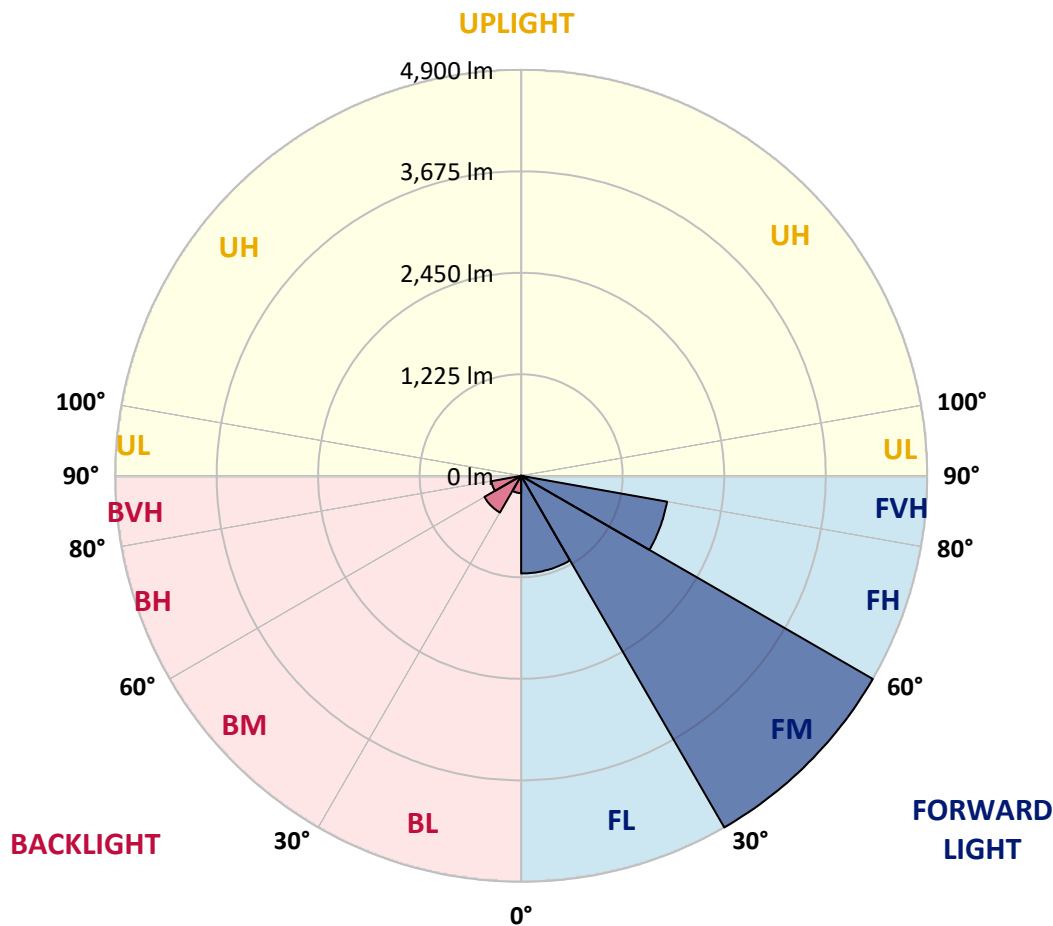
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1179.3	13.1			
FM	(30°-60°)	4900.2	54.5			
FH	(60°-80°)	1787.6	19.9			G1/1800
FVH	(80°-90°)	31.3	0.3			G1/100
BL	(0°-30°)	208.7	2.3	B1/500		
BM	(30°-60°)	511.7	5.7	B1/1000		
BH	(60°-80°)	364.9	4.1	B1/500		G1/500
BVH	(80°-90°)	8.2	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 II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	9°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1188.6	1188.6	1188.6	1188.6	1188.6	1188.6	1188.6	1188.6	1188.6	1188.6	1188.6
2.5°	1472.9	1447.0	1476.6	1472.9	1447.0	1430.4	1378.7	1362.1	1301.2	1256.9	1218.2
5°	1775.6	1749.7	1775.6	1768.2	1731.3	1690.7	1605.8	1550.4	1441.5	1345.5	1258.8
7.5°	2026.6	2026.6	2037.7	2039.5	1995.2	1932.5	1827.2	1744.2	1591.0	1443.3	1304.9
10°	2297.9	2299.7	2323.7	2307.1	2248.1	2163.2	2030.3	1925.1	1740.5	1546.7	1349.2
12.5°	2587.7	2589.5	2596.9	2589.5	2519.4	2410.5	2249.9	2111.5	1899.2	1664.8	1410.1
15°	2877.5	2879.3	2888.5	2875.6	2798.1	2670.7	2488.0	2318.2	2067.2	1797.7	1483.9
17.5°	3148.8	3152.5	3159.8	3143.2	3062.0	2910.7	2724.3	2519.4	2246.2	1939.8	1567.0
20°	3392.4	3396.1	3401.6	3379.5	3298.3	3146.9	2945.7	2731.6	2428.9	2085.6	1657.4
22.5°	3637.9	3641.6	3650.8	3621.3	3530.8	3357.3	3159.8	2938.4	2622.7	2246.2	1762.6
25°	3951.7	3955.3	3962.7	3920.3	3796.6	3593.6	3385.0	3158.0	2833.2	2427.1	1891.8
27.5°	4411.2	4407.5	4407.5	4330.0	4117.8	3853.8	3612.0	3381.3	3060.2	2620.9	2034.0
30°	4979.7	4970.5	4964.9	4859.7	4557.0	4147.3	3844.6	3589.9	3278.0	2825.8	2187.2
32.5°	5489.1	5489.1	5478.1	5367.3	5046.2	4542.3	4091.9	3792.9	3488.4	3032.5	2345.9
35°	5790.0	5802.9	5797.4	5714.3	5479.9	4966.8	4426.0	4036.6	3709.9	3248.4	2536.0
37.5°	5830.6	5856.4	5862.0	5812.1	5688.5	5313.8	4797.0	4300.5	3953.5	3481.0	2720.6
40°	5666.3	5721.7	5721.7	5714.3	5670.0	5478.1	5108.9	4606.9	4204.5	3722.8	2907.0
42.5°	5413.5	5470.7	5463.3	5491.0	5479.9	5439.3	5284.3	4893.0	4455.5	3972.0	3076.8
45°	5083.1	5142.1	5127.4	5177.2	5199.3	5243.6	5265.8	5092.3	4702.9	4243.3	3266.9
47.5°	4553.4	4653.0	4675.2	4763.8	4856.0	4994.5	5099.7	5164.3	4933.6	4534.9	3473.6
50°	3770.8	3911.0	3955.3	4141.8	4394.6	4680.7	4850.5	5075.7	5096.0	4833.9	3696.9
52.5°	2700.3	2862.7	2931.0	3237.4	3757.9	4256.2	4562.6	4880.0	5158.7	5120.0	3938.7
55°	1746.0	1884.5	1950.9	2238.8	2931.0	3713.6	4223.0	4627.2	5123.7	5382.1	4215.6
57.5°	1076.0	1155.4	1199.7	1447.0	2083.8	3017.7	3778.2	4394.6	5016.6	5609.1	4503.5
60°	725.4	771.5	793.7	909.9	1415.7	2255.5	3167.2	4151.0	4876.4	5762.3	4765.6
62.5°	481.7	496.5	518.6	590.6	933.9	1583.6	2432.6	3715.4	4771.1	5771.5	4959.4
65°	372.8	380.2	389.4	420.8	575.9	1107.4	1711.0	3010.3	4614.3	5575.9	5020.3
67.5°	293.5	300.8	311.9	328.5	417.1	751.2	1164.6	2205.6	4293.1	5269.5	4920.6
70°	230.7	236.3	243.6	258.4	324.8	544.5	769.7	1465.5	3645.3	4977.9	4606.9
72.5°	182.7	188.3	195.6	210.4	263.9	398.7	527.9	913.6	2811.0	4621.6	4003.3
75°	144.0	147.7	153.2	168.0	212.3	310.1	358.1	546.3	1910.3	3970.1	3119.2
77.5°	72.0	88.6	101.5	116.3	155.0	214.1	238.1	302.7	806.6	2037.7	1487.6
80°	42.5	51.7	55.4	64.6	101.5	129.2	129.2	121.8	254.7	782.6	607.2
82.5°	24.0	33.2	35.1	36.9	60.9	73.8	59.1	44.3	51.7	262.1	177.2
85°	7.4	11.1	12.9	14.8	20.3	22.1	20.3	18.5	14.8	25.8	16.6
87.5°	0.0	0.0	0.0	0.0	1.8	3.7	3.7	3.7	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°	1188.6	1188.6	1188.6	1188.6	1188.6	1188.6	1188.6	1188.6	1188.6	1188.6	1188.6
2.5°	1196.0	1172.0	1125.9	1083.4	1042.8	1013.3	985.6	959.8	941.3	926.5	924.7
5°	1212.6	1164.6	1076.0	993.0	917.3	854.6	801.0	758.6	727.2	705.1	703.2
7.5°	1234.8	1160.9	1026.2	902.5	790.0	699.5	622.0	564.8	524.2	507.6	494.6
10°	1253.2	1157.3	976.4	812.1	664.5	550.0	457.7	400.5	371.0	359.9	354.4
12.5°	1284.6	1160.9	933.9	729.1	555.6	420.8	350.7	319.3	306.4	297.2	295.3
15°	1330.8	1177.6	893.3	647.8	444.8	339.6	299.0	278.7	265.8	263.9	262.1
17.5°	1376.9	1192.3	856.4	564.8	369.1	295.3	267.6	251.0	241.8	239.9	239.9
20°	1430.4	1210.8	815.8	485.4	315.6	265.8	243.6	230.7	219.6	217.8	217.8
22.5°	1493.2	1236.6	777.0	415.3	280.5	243.6	225.2	210.4	201.2	199.3	199.3
25°	1578.1	1275.4	745.7	363.6	256.6	225.2	208.6	195.6	188.3	184.6	184.6
27.5°	1672.2	1328.9	723.5	332.2	239.9	210.4	193.8	182.7	175.3	171.7	171.7
30°	1777.4	1388.0	708.8	319.3	230.7	197.5	182.7	171.7	162.4	160.6	160.6
32.5°	1893.7	1456.3	699.5	321.2	228.9	188.3	171.7	160.6	153.2	149.5	149.5
35°	2022.9	1531.9	694.0	332.2	232.6	180.9	162.4	151.3	144.0	140.3	140.3
37.5°	2166.9	1620.5	694.0	343.3	241.8	179.0	153.2	142.1	136.6	132.9	132.9
40°	2301.6	1714.7	701.4	356.2	251.0	179.0	145.8	136.6	129.2	125.5	125.5
42.5°	2406.8	1768.2	706.9	369.1	256.6	177.2	138.4	129.2	123.7	120.0	120.0
45°	2526.8	1825.4	695.8	374.7	256.6	173.5	132.9	123.7	118.1	114.4	114.4
47.5°	2659.7	1895.5	694.0	378.4	251.0	166.1	127.4	118.1	114.4	110.7	110.7
50°	2794.4	1973.1	697.7	376.5	243.6	155.0	120.0	114.4	108.9	105.2	105.2
52.5°	2947.6	2054.3	705.1	372.8	227.0	142.1	114.4	108.9	103.4	99.7	97.8
55°	3117.4	2142.9	719.8	365.4	204.9	129.2	108.9	103.4	96.0	92.3	90.4
57.5°	3313.0	2251.8	736.4	350.7	180.9	118.1	103.4	96.0	84.9	79.4	77.5
60°	3499.5	2375.4	754.9	315.6	156.9	107.1	97.8	86.7	75.7	72.0	70.1
62.5°	3674.8	2497.2	764.1	252.9	132.9	97.8	92.3	79.4	68.3	64.6	62.8
65°	3787.4	2630.1	743.8	171.7	108.9	90.4	84.9	73.8	62.8	57.2	57.2
67.5°	3794.8	2692.9	673.7	112.6	88.6	81.2	77.5	66.4	55.4	51.7	49.8
70°	3608.4	2598.8	515.0	88.6	73.8	70.1	70.1	59.1	48.0	44.3	42.5
72.5°	3180.1	2301.6	328.5	72.0	62.8	59.1	59.1	49.8	42.5	36.9	35.1
75°	2510.2	1775.6	175.3	59.1	51.7	49.8	46.1	40.6	35.1	31.4	29.5
77.5°	1153.6	782.6	81.2	42.5	38.8	38.8	35.1	29.5	27.7	24.0	24.0
80°	455.9	265.8	40.6	27.7	25.8	25.8	25.8	20.3	20.3	16.6	14.8
82.5°	125.5	55.4	20.3	16.6	16.6	16.6	14.8	12.9	12.9	11.1	11.1
85°	12.9	9.2	9.2	9.2	9.2	7.4	7.4	5.5	3.7	3.7	3.7
87.5°	5.5	5.5	5.5	5.5	5.5	3.7	1.8	0.0	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)