

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: P1211414

Luminaire Tested: **ARCH4-270-722-U-T3RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211414
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-4)
Test Lab: INNOVATION CENTER
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-270-722-U-T3RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 1045mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III
ROADWAY ILLUMINANCE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23117 lumens
Efficiency: N/A
Efficacy: 85.9 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 269
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



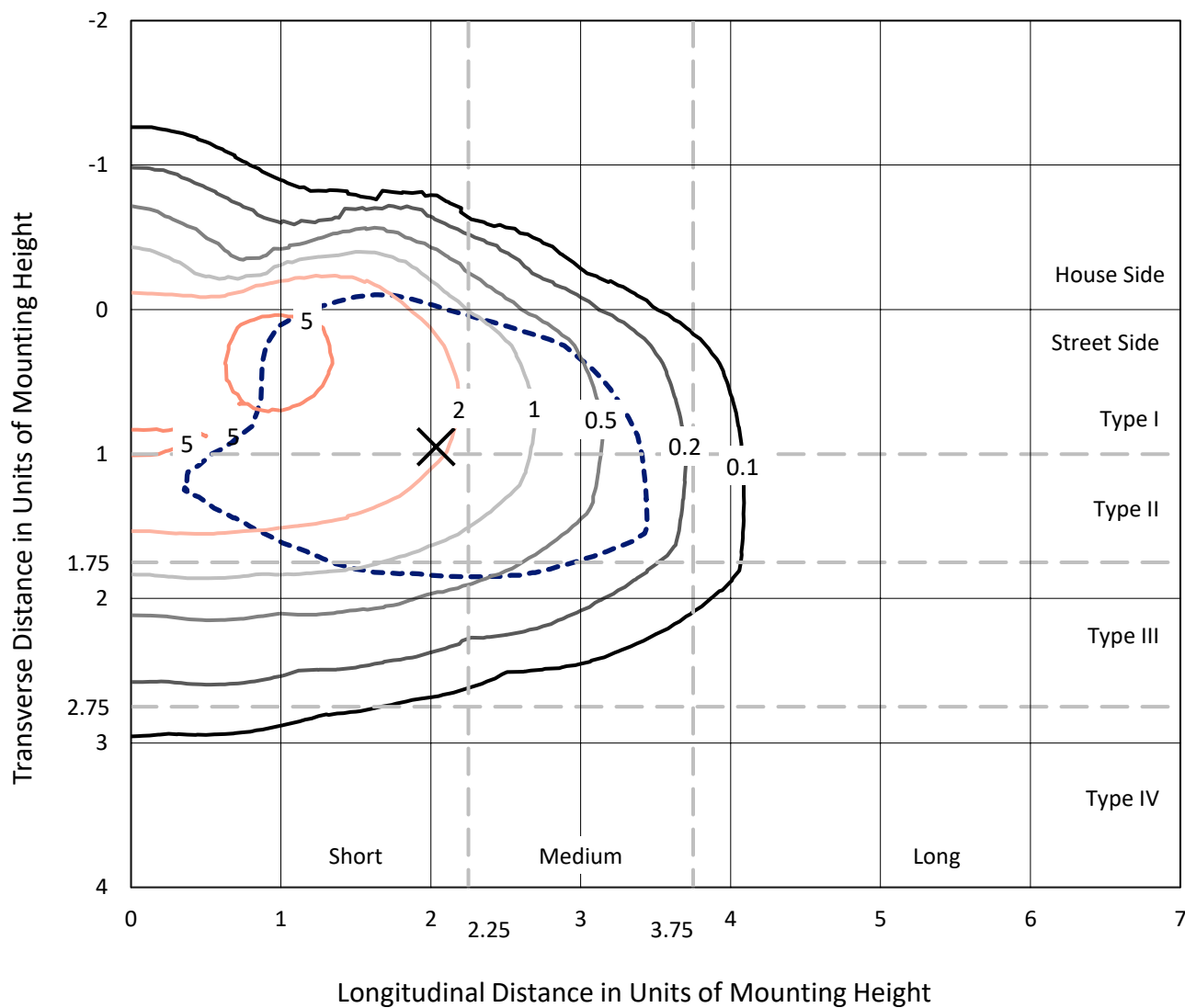
REPORT NUMBER: P1211414

CATALOG NUMBER: ARCH4-270-722-U-T3RE-HSS

Iso-Footcandle Lines of Horizontal Illumination

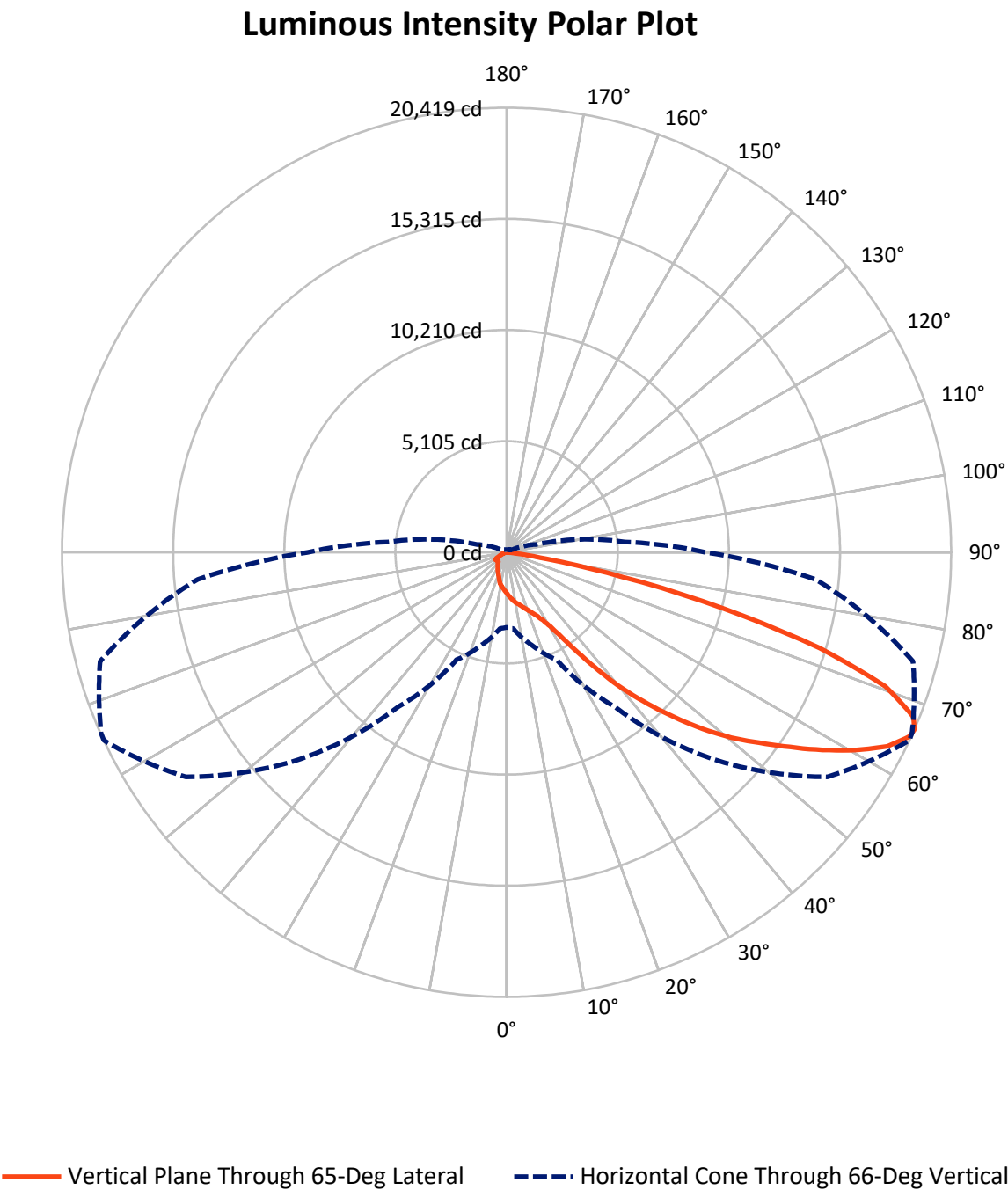
✕ Max cd

--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 fc
 Type III - Short - N/A

REPORT NUMBER: P1211414
CATALOG NUMBER: ARCH4-270-722-U-T3RE-HSS



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CATALOG NUMBER: ARCH4-270-722-U-T3RE-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2728.3	0.0	2728.3
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	20388.7	0.0	20388.7
	% Fixture	88.2	0.0	88.2
Total	Lumens	23117.0	0.0	23117.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	178.6	0.8
10°-20°	528.6	2.3
20°-30°	967.4	4.2
30°-40°	1965.8	8.5
40°-50°	4151.2	18.0
50°-60°	6381.7	27.6
60°-70°	6423.7	27.8
70°-80°	2400.2	10.4
80°-90°	119.9	0.5
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°	23117.0	100.0
0°-180°	23117.0	100.0

Coefficient of Utilization



REPORT NUMBER: P1211414

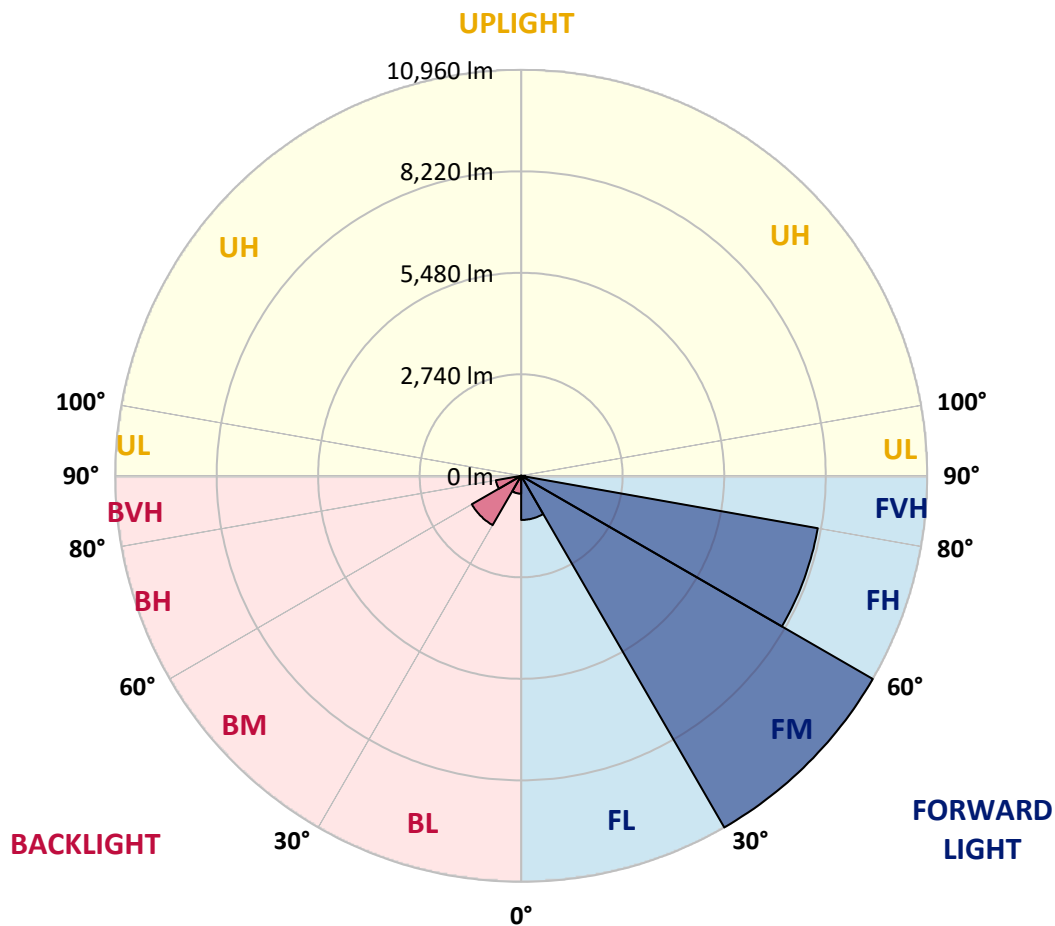
CATALOG NUMBER: ARCH4-270-722-U-T3RE-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1191.6	5.2			
FM	(30°-60°)	10960.5	47.4			
FH	(60°-80°)	8130.8	35.2			G4/12000
FVH	(80°-90°)	105.8	0.5			G2/225
BL	(0°-30°)	482.9	2.1	B1/500		
BM	(30°-60°)	1538.2	6.7	B2/2500		
BH	(60°-80°)	693.1	3.0	B2/1000		G2/1000
BVH	(80°-90°)	14.1	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type III Short



REPORT NUMBER: P1211414

CATALOG NUMBER: ARCH4-270-722-U-T3RE-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1883.4	1883.4	1883.4	1883.4	1883.4	1883.4	1883.4	1883.4	1883.4	1883.4	1883.4
2.5°	2147.6	2151.8	2143.5	2126.7	2109.9	2088.9	2055.4	2000.8	1992.4	1954.7	1912.7
5°	2294.5	2302.8	2290.3	2286.1	2277.7	2248.3	2202.2	2122.5	2114.1	2038.6	1942.1
7.5°	2344.8	2357.4	2349.0	2349.0	2349.0	2336.4	2315.4	2244.1	2231.5	2135.1	1988.3
10°	2382.5	2390.9	2386.7	2403.5	2416.1	2407.7	2395.1	2353.2	2340.6	2244.1	2051.2
12.5°	2441.3	2445.5	2449.7	2458.0	2479.0	2487.4	2483.2	2445.5	2437.1	2370.0	2130.9
15°	2495.8	2495.8	2500.0	2537.7	2567.1	2583.9	2588.1	2558.7	2550.3	2495.8	2231.5
17.5°	2546.1	2550.3	2562.9	2604.9	2655.2	2688.8	2709.7	2697.1	2684.6	2642.6	2349.0
20°	2621.6	2630.0	2642.6	2701.3	2751.7	2806.2	2848.1	2844.0	2839.8	2810.4	2487.4
22.5°	2751.7	2760.1	2781.0	2835.6	2885.9	2953.0	3024.3	3020.1	3007.5	2986.6	2651.0
25°	2948.8	2948.8	2961.4	3007.5	3070.5	3150.2	3217.3	3229.9	3217.3	3204.7	2856.5
27.5°	3196.3	3200.5	3200.5	3250.8	3309.6	3410.2	3494.1	3506.7	3506.7	3494.1	3133.4
30°	3540.3	3527.7	3519.3	3561.2	3624.2	3771.0	3917.8	3942.9	3930.4	3951.3	3523.5
32.5°	4131.7	4110.7	4039.4	4047.8	4085.6	4286.9	4534.4	4622.5	4618.3	4656.0	4152.7
35°	4949.7	4907.7	4802.8	4714.8	4710.6	4928.7	5306.2	5637.6	5633.4	5763.4	5109.0
37.5°	5872.5	5927.0	5729.9	5578.8	5532.7	5704.7	6191.3	6908.5	6946.3	7172.8	6363.2
40°	7105.7	7139.2	6887.6	6673.6	6455.5	6518.4	7160.2	8276.0	8343.1	8594.8	7617.4
42.5°	8179.5	8213.1	8066.3	7806.2	7529.3	7411.9	8137.6	9517.6	9572.1	9920.3	8909.4
45°	8909.4	8934.5	8984.9	9010.0	8695.5	8452.2	9333.0	10792.8	10859.9	11262.6	10172.0
47.5°	9479.8	9500.8	9601.5	9853.2	9790.2	9597.3	10549.5	12118.3	12135.0	12583.9	11401.0
50°	9744.1	9794.4	10041.9	10427.8	10704.7	10759.2	11870.8	13372.5	13418.6	13846.4	12562.9
52.5°	9450.5	9467.3	10092.3	10817.9	11375.8	11929.5	13196.3	14534.4	14668.6	14987.4	13607.4
55°	8460.6	8582.2	9530.2	10805.3	11904.3	13041.1	14614.1	15788.6	15910.2	16111.5	14526.0
57.5°	7311.2	7445.5	8599.0	10264.2	12130.8	14068.8	15927.0	17122.4	17206.3	17260.9	15369.1
60°	6317.1	6442.9	7630.0	9228.2	11904.3	14794.4	17147.6	18447.9	18519.3	18372.4	15792.8
62.5°	5096.5	5222.3	6417.8	7856.5	11015.1	14941.2	18053.7	19626.6	19656.0	19257.5	15532.7
65°	3842.3	3926.2	4924.5	6157.7	9458.9	14161.0	18259.2	20360.7	20331.3	19513.4	14752.5
66°	3443.8	3515.1	4396.0	5444.6	8649.3	13448.0	17982.3	20419.4	20390.1	19324.6	14240.7
67.5°	2969.8	2990.8	3716.4	4454.7	7235.7	11933.7	17139.2	20151.0	20176.1	18804.5	13305.3
70°	2319.6	2315.4	2734.9	3099.8	4941.3	8489.9	14295.3	18460.5	18582.2	16841.4	11346.5
72.5°	1484.9	1434.6	1677.8	1896.0	2877.5	4928.7	10423.6	15046.1	15251.6	13229.8	8452.2
75°	885.1	834.7	893.5	948.0	1380.0	2370.0	6128.3	10239.1	10436.2	8481.5	5029.4
77.5°	662.8	641.8	646.0	599.8	612.4	889.3	2797.8	5411.1	5553.7	3473.1	1908.6
80°	507.5	453.0	423.7	444.6	402.7	352.3	1040.3	1862.4	1950.5	822.1	398.5
82.5°	339.8	293.6	272.7	297.8	255.9	197.1	251.7	360.7	352.3	222.3	155.2
85°	176.2	151.0	151.0	151.0	130.0	96.5	109.1	146.8	146.8	117.4	92.3
87.5°	50.3	46.1	54.5	50.3	37.8	37.8	41.9	50.3	50.3	46.1	41.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P1211414

CATALOG NUMBER: ARCH4-270-722-U-T3RE-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1883.4	1883.4	1883.4	1883.4	1883.4	1883.4	1883.4	1883.4	1883.4	1883.4	1883.4
2.5°	1879.2	1862.4	1816.3	1782.7	1749.2	1719.8	1686.2	1677.8	1661.1	1665.3	1656.9
5°	1891.8	1845.6	1765.9	1690.4	1631.7	1581.4	1518.5	1493.3	1459.7	1447.1	1438.8
7.5°	1908.6	1841.4	1724.0	1619.1	1518.5	1417.8	1317.1	1258.4	1220.6	1203.9	1191.3
10°	1946.3	1858.2	1703.0	1539.4	1367.4	1224.8	1124.2	1082.2	1057.0	1052.9	1048.7
12.5°	1996.6	1883.4	1682.0	1438.8	1212.2	1078.0	1015.1	1002.5	998.3	998.3	994.1
15°	2072.1	1925.3	1648.5	1321.3	1090.6	998.3	969.0	948.0	939.6	939.6	939.6
17.5°	2147.6	1975.7	1598.2	1199.7	1006.7	948.0	918.6	906.0	897.6	901.8	897.6
20°	2244.1	2034.4	1531.0	1094.8	952.2	906.0	876.7	864.1	859.9	859.9	859.9
22.5°	2353.2	2101.5	1447.1	1015.1	906.0	864.1	834.7	822.1	813.8	818.0	818.0
25°	2500.0	2185.4	1359.1	935.4	859.9	822.1	788.6	771.8	771.8	776.0	780.2
27.5°	2688.8	2286.1	1271.0	885.1	818.0	780.2	742.4	725.7	729.9	738.3	738.3
30°	2965.6	2424.5	1182.9	830.5	771.8	729.9	696.3	679.5	687.9	704.7	704.7
32.5°	3359.9	2651.0	1107.4	767.6	704.7	658.6	625.0	612.4	633.4	666.9	666.9
35°	4064.6	3066.3	1061.2	704.7	633.4	578.9	536.9	524.3	553.7	595.6	595.6
37.5°	5008.4	3733.2	1078.0	650.2	574.7	511.7	465.6	448.8	469.8	507.5	520.1
40°	6061.2	4538.6	1224.8	604.0	520.1	457.2	411.1	394.3	406.9	423.7	427.9
42.5°	7114.1	5394.3	1501.7	570.5	478.2	411.1	369.1	356.5	364.9	369.1	373.3
45°	8162.7	6241.6	1849.8	549.5	440.4	373.3	331.4	331.4	335.6	335.6	335.6
47.5°	9156.9	7067.9	2214.8	545.3	406.9	335.6	302.0	306.2	306.2	310.4	310.4
50°	10096.5	7806.2	2583.9	557.9	377.5	302.0	276.8	276.8	276.8	281.0	276.8
52.5°	10880.8	8452.2	2969.8	578.9	348.2	276.8	251.7	251.7	251.7	255.9	251.7
55°	11623.3	9039.4	3364.1	608.2	323.0	255.9	230.7	222.3	222.3	226.5	222.3
57.5°	12227.3	9429.5	3737.4	612.4	302.0	234.9	213.9	201.3	201.3	201.3	201.3
60°	12252.5	9203.0	3846.5	536.9	276.8	213.9	193.0	176.2	180.4	180.4	180.4
62.5°	11451.3	8011.7	3091.4	402.7	247.5	193.0	176.2	159.4	159.4	159.4	159.4
65°	9878.3	6233.2	1812.1	318.8	213.9	172.0	155.2	142.6	142.6	142.6	138.4
66°	9140.1	5465.6	1388.4	289.4	201.3	167.8	151.0	138.4	134.2	130.0	130.0
67.5°	7936.2	4320.5	868.3	255.9	184.6	155.2	138.4	125.8	121.6	117.4	117.4
70°	5977.3	2743.3	423.7	197.1	159.4	134.2	121.6	109.1	104.9	100.7	96.5
72.5°	4194.6	1606.5	222.3	151.0	130.0	117.4	104.9	92.3	88.1	83.9	83.9
75°	2370.0	776.0	146.8	109.1	104.9	96.5	88.1	75.5	71.3	71.3	71.3
77.5°	897.6	268.5	100.7	79.7	83.9	75.5	62.9	62.9	58.7	62.9	58.7
80°	234.9	117.4	62.9	58.7	62.9	54.5	46.1	50.3	50.3	50.3	50.3
82.5°	125.8	67.1	37.8	41.9	37.8	37.8	29.4	33.6	37.8	33.6	37.8
85°	88.1	33.6	21.0	21.0	16.8	16.8	12.6	16.8	21.0	16.8	16.8
87.5°	46.1	12.6	12.6	12.6	12.6	8.4	4.2	0.0	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

(END OF REPORT)