

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: P841651

Luminaire Tested: **ARCH4-210-722-U-T2U-HSS**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841651
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-25)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-210-722-U-T2U-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 835mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II U
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19826 lumens
Efficiency: N/A
Efficacy: 93.0 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 213.1
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



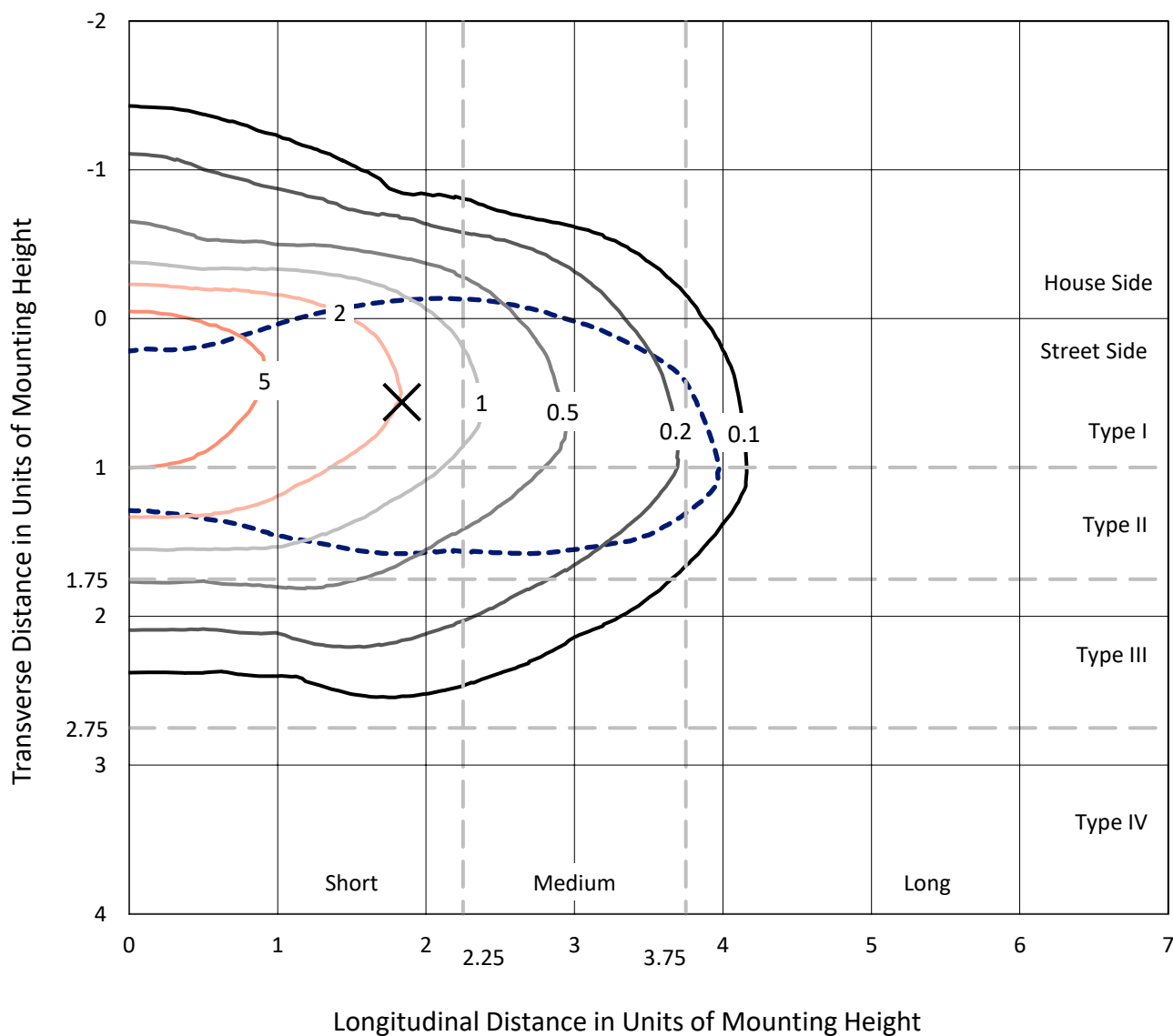
REPORT NUMBER: P841651

CATALOG NUMBER: ARCH4-210-722-U-T2U-HSS

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

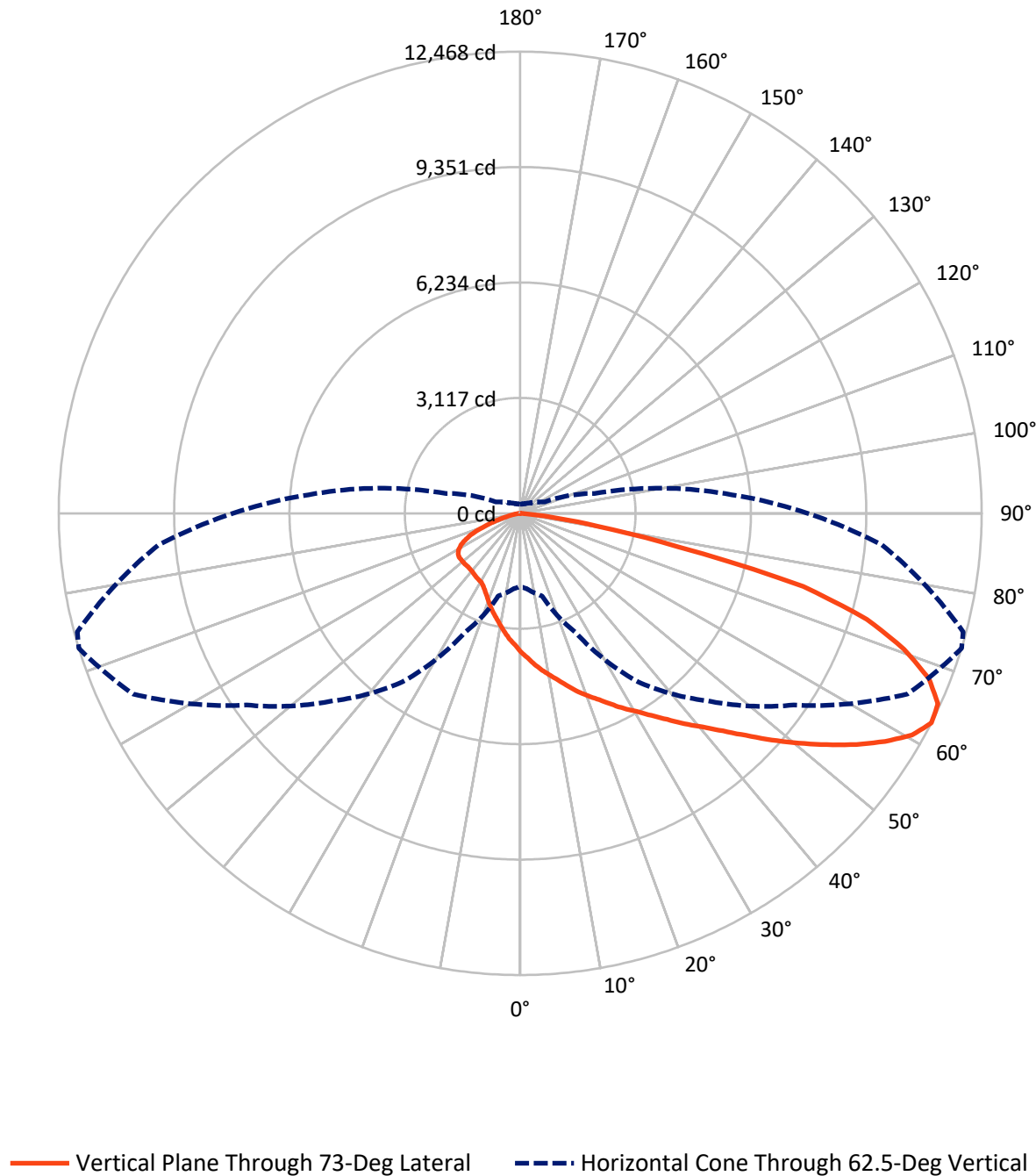


Based on 25 foot mounting height. Maximum calculated value = 9.4 fc

Type II - Short - N/A

REPORT NUMBER: P841651
CATALOG NUMBER: ARCH4-210-722-U-T2U-HSS

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3073.3	0.0	3073.3
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	16752.7	0.0	16752.7
	% Fixture	84.5	0.0	84.5
Total	Lumens	19826.0	0.0	19826.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	362.7	1.8
10°-20°	1094.4	5.5
20°-30°	1821.6	9.2
30°-40°	2748.5	13.9
40°-50°	3841.7	19.4
50°-60°	4243.4	21.4
60°-70°	3696.6	18.6
70°-80°	1867.3	9.4
80°-90°	149.9	0.8
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°	19826.0	100.0
0°-180°	19826.0	100.0

Coefficient of Utilization



REPORT NUMBER: P841651

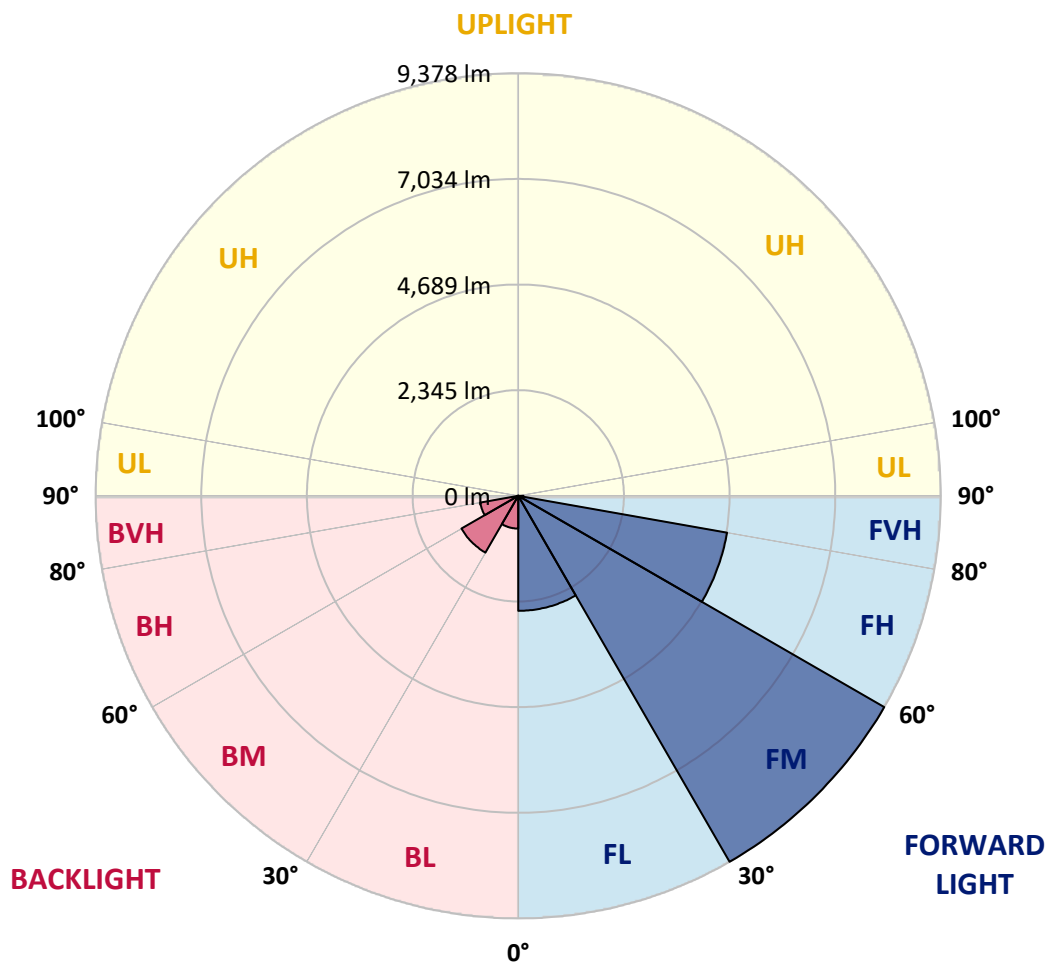
CATALOG NUMBER: ARCH4-210-722-U-T2U-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2552.2	12.9			
FM	(30°-60°)	9378.4	47.3			
FH	(60°-80°)	4706.0	23.7			G2/5000
FVH	(80°-90°)	116.0	0.6			G2/225
BL	(0°-30°)	726.4	3.7	B2/1000		
BM	(30°-60°)	1455.2	7.3	B2/2500		
BH	(60°-80°)	857.8	4.3	B2/1000		G2/1000
BVH	(80°-90°)	33.9	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short



REPORT NUMBER: P841651

CATALOG NUMBER: ARCH4-210-722-U-T2U-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	73°	75°	85°
0°	3754.1	3754.1	3754.1	3754.1	3754.1	3754.1	3754.1	3754.1	3754.1	3754.1	3754.1
2.5°	4272.5	4320.0	4294.1	4311.4	4225.0	4168.8	4104.0	3978.7	3909.6	3901.0	3818.9
5°	4898.9	4950.7	4907.5	4894.6	4743.4	4613.8	4466.9	4246.6	4099.7	4073.8	3892.3
7.5°	5525.3	5572.8	5521.0	5482.1	5279.1	5050.1	4834.1	4510.1	4281.1	4237.9	3952.8
10°	5965.9	6009.1	5970.3	5931.4	5719.7	5486.4	5179.7	4756.3	4445.3	4376.2	3991.7
12.5°	6298.6	6324.5	6307.2	6272.7	6073.9	5823.4	5529.6	5032.8	4631.1	4544.7	4052.2
15°	6570.7	6613.9	6592.3	6566.4	6376.3	6125.8	5845.0	5322.3	4847.1	4739.1	4142.9
17.5°	6752.2	6782.4	6786.7	6786.7	6618.3	6372.0	6099.9	5585.8	5063.1	4924.8	4229.3
20°	6834.3	6868.8	6890.4	6925.0	6786.7	6575.1	6298.6	5810.4	5266.1	5110.6	4311.4
22.5°	6873.1	6903.4	6959.5	7037.3	6925.0	6747.9	6493.0	6017.8	5469.1	5305.0	4406.4
25°	6903.4	6942.3	7024.3	7171.2	7093.5	6942.3	6721.9	6255.4	5711.1	5542.6	4544.7
27.5°	6985.5	7033.0	7110.7	7287.9	7192.8	7119.4	6963.9	6510.3	5965.9	5793.1	4713.1
30°	7270.6	7309.5	7305.1	7417.5	7300.8	7279.2	7171.2	6756.5	6212.2	6039.4	4911.9
32.5°	7789.0	7827.9	7732.8	7689.6	7434.7	7439.1	7395.9	7020.0	6505.9	6328.8	5140.8
35°	8346.3	8389.5	8264.2	8190.8	7763.1	7637.8	7659.4	7348.3	6834.3	6657.1	5425.9
37.5°	8843.1	8894.9	8786.9	8678.9	8246.9	7957.5	7953.2	7715.6	7210.1	7028.7	5741.3
40°	9115.2	9175.7	9240.5	9180.0	8726.4	8406.8	8268.5	8091.4	7581.6	7395.9	6082.6
42.5°	9244.8	9413.3	9530.0	9491.1	9119.6	8795.6	8631.4	8484.5	8035.2	7853.8	6488.7
45°	8882.0	8886.3	9132.5	9344.2	9275.1	9059.1	9028.8	8925.2	8553.6	8380.8	6946.6
47.5°	8428.4	8393.8	8566.6	8942.4	9136.8	9193.0	9370.1	9413.3	9145.5	8972.7	7413.1
50°	7339.7	7361.3	7922.9	8462.9	8843.1	9206.0	9612.0	9914.4	9754.6	9590.4	7905.6
52.5°	5970.3	6022.1	6665.8	7853.8	8454.3	9076.4	9754.6	10415.6	10376.7	10221.2	8398.1
55°	4786.6	4868.7	5551.2	6838.6	7957.5	8786.9	9815.1	10873.5	11020.4	10877.8	8882.0
57.5°	3659.1	3745.5	4320.0	5641.9	7322.4	8316.0	9771.9	11275.2	11620.8	11530.1	9326.9
60°	2756.2	2842.6	3209.8	4574.9	6527.5	7789.0	9555.9	11538.8	12160.8	12065.8	9650.9
62.5°	1974.2	2043.4	2315.5	3559.7	5559.9	7162.6	9024.5	11543.1	12467.6	12389.8	9806.4
65°	1421.3	1421.3	1641.6	2540.2	4652.7	6410.9	8221.0	11011.7	12402.8	12381.2	9698.4
67.5°	1023.8	1032.5	1209.6	1775.5	3710.9	5499.4	7179.9	10065.6	11901.6	12009.6	9309.6
70°	725.8	747.4	829.4	1239.8	2803.7	4341.6	6065.3	8825.8	10998.8	11188.8	8558.0
72.5°	561.6	574.6	630.7	864.0	2047.7	3227.1	4834.1	7443.4	9793.5	10009.5	7534.1
75°	432.0	445.0	488.2	635.0	1468.8	2263.7	3434.4	5775.9	7897.0	8281.5	6052.3
77.5°	315.4	332.6	362.9	462.2	855.4	1438.6	2082.2	3248.7	4358.9	4540.3	3170.9
80°	146.9	168.5	211.7	298.1	462.2	678.2	738.7	1252.8	2095.2	2190.2	1719.4
82.5°	82.1	103.7	121.0	181.4	233.3	241.9	250.6	315.4	790.6	872.6	721.4
85°	38.9	51.8	56.2	77.8	77.8	69.1	82.1	60.5	129.6	155.5	151.2
87.5°	0.0	4.3	8.6	21.6	17.3	13.0	13.0	13.0	13.0	17.3	13.0
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: P841651

CATALOG NUMBER: ARCH4-210-722-U-T2U-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3754.1	3754.1	3754.1	3754.1	3754.1	3754.1	3754.1	3754.1	3754.1	3754.1	3754.1
2.5°	3780.0	3723.9	3594.3	3481.9	3408.5	3343.7	3257.3	3218.4	3149.3	3162.3	3123.4
5°	3801.6	3697.9	3469.0	3257.3	3101.8	2963.5	2812.3	2725.9	2630.9	2622.3	2592.0
7.5°	3814.6	3654.7	3326.4	3028.3	2790.7	2579.1	2376.0	2263.7	2147.0	2121.1	2095.2
10°	3801.6	3589.9	3179.5	2790.7	2475.4	2211.8	1982.9	1840.3	1719.4	1689.1	1663.2
12.5°	3814.6	3555.4	3041.3	2570.4	2194.6	1896.5	1637.3	1490.4	1378.1	1347.8	1330.6
15°	3844.8	3533.8	2924.7	2371.7	1944.0	1611.4	1356.5	1231.2	1140.5	1110.2	1101.6
17.5°	3870.7	3512.2	2799.4	2177.3	1693.4	1360.8	1140.5	1036.8	959.0	928.8	920.2
20°	3905.3	3481.9	2674.1	1991.5	1473.1	1162.1	967.7	877.0	816.5	794.9	790.6
22.5°	3935.5	3460.3	2557.5	1805.8	1270.1	1002.2	838.1	764.6	721.4	699.8	699.8
25°	4013.3	3469.0	2458.1	1633.0	1118.9	877.0	738.7	682.6	648.0	635.0	635.0
27.5°	4104.0	3503.5	2380.3	1486.1	989.3	781.9	669.6	622.1	604.8	587.5	591.8
30°	4233.6	3572.7	2328.5	1365.1	894.2	708.5	613.4	578.9	561.6	557.3	557.3
32.5°	4397.8	3685.0	2324.2	1287.4	825.1	652.3	574.6	544.3	535.7	531.4	531.4
35°	4592.2	3784.3	2298.2	1252.8	781.9	613.4	544.3	522.7	518.4	518.4	518.4
37.5°	4825.5	3948.5	2281.0	1205.3	760.3	591.8	522.7	505.4	505.4	505.4	505.4
40°	5067.4	4082.4	2255.0	1162.1	751.7	578.9	509.8	488.2	488.2	488.2	488.2
42.5°	5356.8	4276.8	2246.4	1140.5	738.7	570.2	492.5	466.6	470.9	470.9	475.2
45°	5706.7	4497.1	2242.1	1118.9	734.4	561.6	475.2	445.0	449.3	445.0	445.0
47.5°	6061.0	4752.0	2255.0	1105.9	730.1	553.0	462.2	423.4	423.4	419.0	419.0
50°	6432.5	4985.3	2263.7	1093.0	721.4	535.7	440.6	406.1	397.4	388.8	393.1
52.5°	6782.4	5201.3	2268.0	1071.4	695.5	509.8	423.4	384.5	371.5	358.6	362.9
55°	7132.3	5408.7	2276.6	1045.4	661.0	483.8	401.8	362.9	345.6	328.3	328.3
57.5°	7447.7	5590.1	2255.0	980.6	622.1	457.9	380.2	337.0	311.0	293.8	293.8
60°	7663.7	5719.7	2190.2	885.6	570.2	427.7	358.6	311.0	280.8	267.8	267.8
62.5°	7767.4	5741.3	2073.6	730.1	505.4	397.4	332.6	285.1	259.2	250.6	250.6
65°	7668.0	5646.3	1892.2	548.6	436.3	362.9	306.7	263.5	237.6	216.0	216.0
67.5°	7322.4	5378.4	1641.6	414.7	371.5	328.3	280.8	241.9	211.7	194.4	194.4
70°	6626.9	4821.1	1270.1	332.6	315.4	285.1	254.9	216.0	190.1	168.5	168.5
72.5°	5715.4	4086.7	894.2	267.8	267.8	241.9	216.0	190.1	164.2	146.9	146.9
75°	4384.8	3024.0	600.5	216.0	220.3	203.0	177.1	155.5	138.2	125.3	125.3
77.5°	2393.3	1494.7	367.2	159.8	164.2	155.5	138.2	125.3	116.6	103.7	103.7
80°	1162.1	656.6	211.7	112.3	116.6	112.3	103.7	90.7	90.7	82.1	82.1
82.5°	488.2	246.2	112.3	77.8	77.8	69.1	64.8	64.8	64.8	60.5	60.5
85°	121.0	47.5	47.5	43.2	43.2	43.2	38.9	38.9	38.9	30.2	34.6
87.5°	17.3	17.3	17.3	17.3	17.3	17.3	13.0	4.3	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)