

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: P836326

Luminaire Tested: **ARCH3-170-730-U-T2U-HSS**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836326
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-25)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-170-730-U-T2U-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 1310mA LIGHTSQUARE WITH 40 LEDS AND TYPE II U OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15896 lumens
Efficiency: N/A
Efficacy: 93.2 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 170.6
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



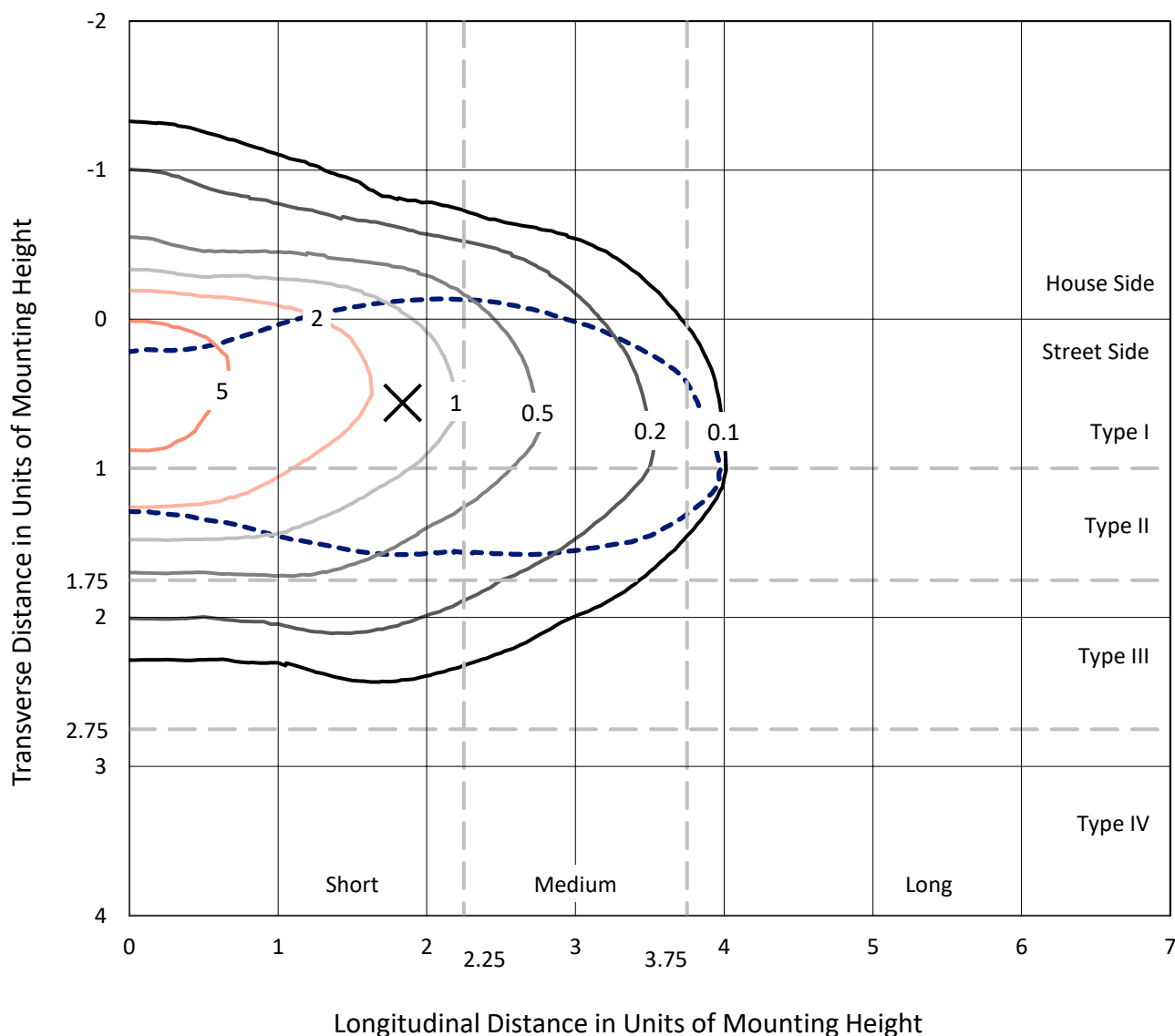
REPORT NUMBER: P836326

CATALOG NUMBER: ARCH3-170-730-U-T2U-HSS

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

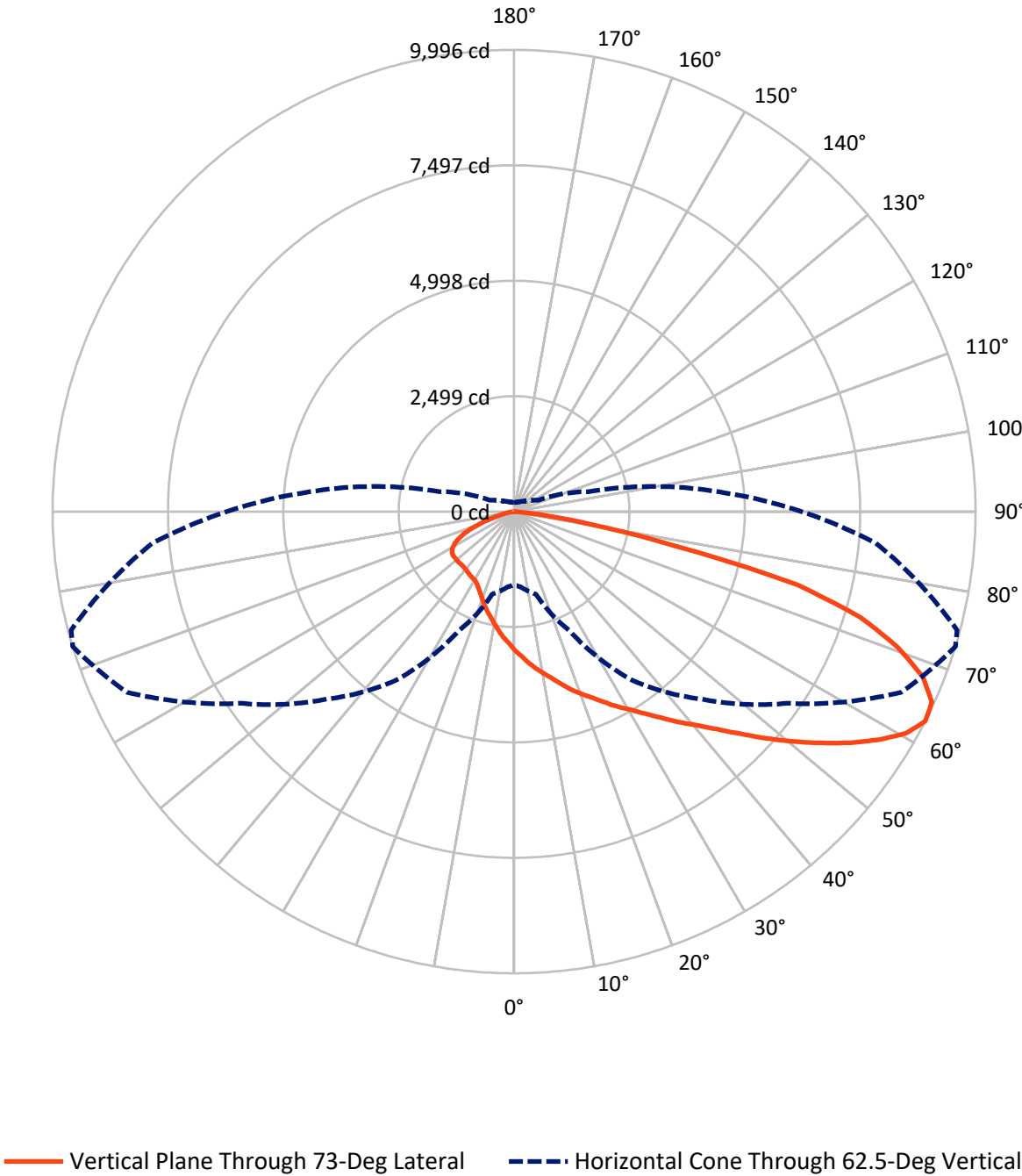


Based on 25 foot mounting height. Maximum calculated value = 7.6 fc

Type II - Short - N/A

REPORT NUMBER: P836326
CATALOG NUMBER: ARCH3-170-730-U-T2U-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P836326

CATALOG NUMBER: ARCH3-170-730-U-T2U-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2464.1	0.0	2464.1
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	13431.9	0.0	13431.9
	% Fixture	84.5	0.0	84.5
Total	Lumens	15896.0	0.0	15896.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	290.8	1.8
10°-20°	877.4	5.5
20°-30°	1460.5	9.2
30°-40°	2203.7	13.9
40°-50°	3080.2	19.4
50°-60°	3402.3	21.4
60°-70°	2963.8	18.6
70°-80°	1497.1	9.4
80°-90°	120.2	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°	15896.0	100.0
0°-180°	15896.0	100.0

Coefficient of Utilization



REPORT NUMBER: P836326

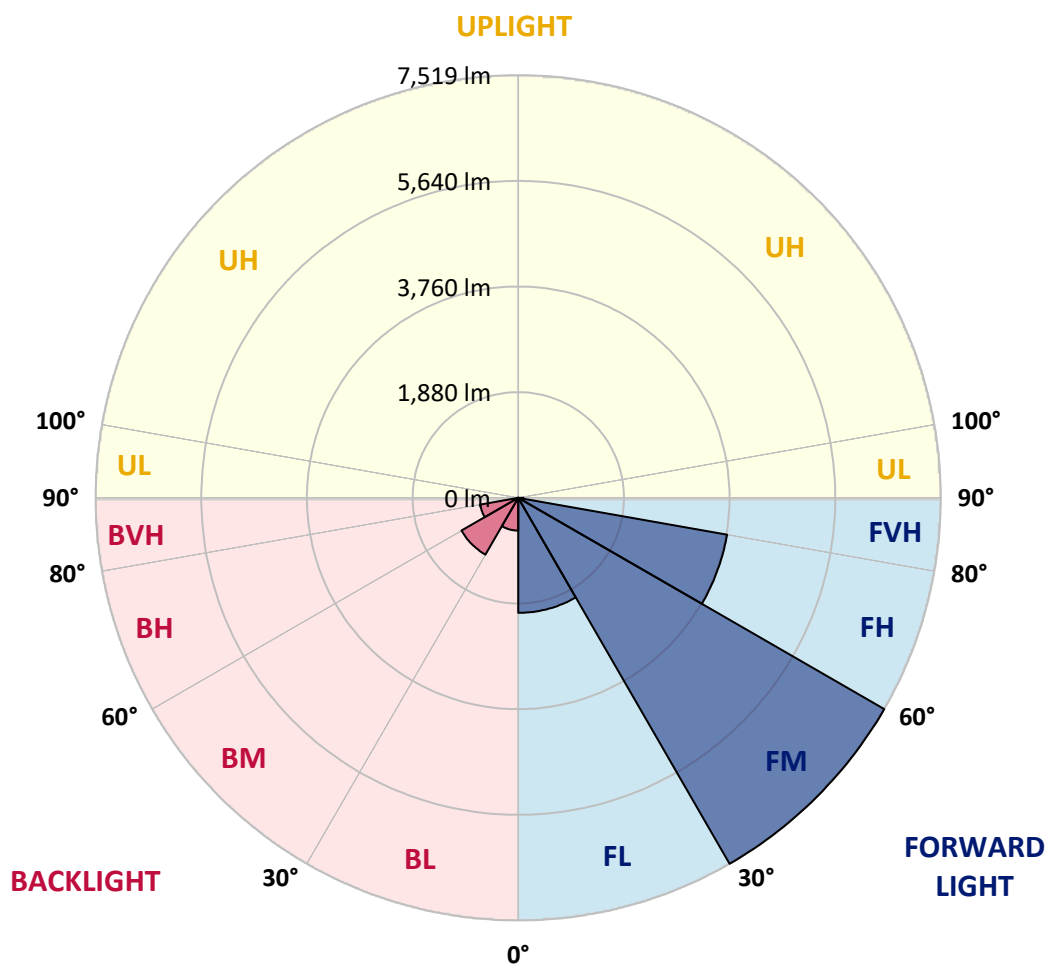
CATALOG NUMBER: ARCH3-170-730-U-T2U-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2046.3	12.9			
FM	(30°-60°)	7519.4	47.3			
FH	(60°-80°)	3773.2	23.7			G2/5000
FVH	(80°-90°)	93.0	0.6			G1/100
BL	(0°-30°)	582.4	3.7	B2/1000		
BM	(30°-60°)	1166.8	7.3	B2/2500		
BH	(60°-80°)	687.8	4.3	B2/1000		G2/1000
BVH	(80°-90°)	27.2	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: P836326

CATALOG NUMBER: ARCH3-170-730-U-T2U-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	73°	75°	85°
0°	3009.9	3009.9	3009.9	3009.9	3009.9	3009.9	3009.9	3009.9	3009.9	3009.9	3009.9
2.5°	3425.6	3463.7	3442.9	3456.8	3387.5	3342.5	3290.5	3190.1	3134.6	3127.7	3061.9
5°	3927.8	3969.4	3934.7	3924.4	3803.1	3699.2	3581.4	3404.8	3287.0	3266.3	3120.8
7.5°	4430.1	4468.2	4426.6	4395.4	4232.6	4049.0	3875.9	3616.1	3432.5	3397.9	3169.3
10°	4783.3	4818.0	4786.8	4755.6	4585.9	4398.9	4153.0	3813.5	3564.1	3508.7	3200.4
12.5°	5050.1	5070.8	5057.0	5029.3	4869.9	4669.0	4433.5	4035.2	3713.1	3643.8	3248.9
15°	5268.3	5302.9	5285.6	5264.8	5112.4	4911.5	4686.4	4267.3	3886.3	3799.7	3321.7
17.5°	5413.7	5438.0	5441.4	5441.4	5306.4	5108.9	4890.7	4478.5	4059.4	3948.6	3390.9
20°	5479.5	5507.3	5524.6	5552.3	5441.4	5271.7	5050.1	4658.7	4222.2	4097.5	3456.8
22.5°	5510.7	5535.0	5580.0	5642.3	5552.3	5410.3	5205.9	4824.9	4385.0	4253.4	3533.0
25°	5535.0	5566.1	5631.9	5749.7	5687.4	5566.1	5389.5	5015.4	4579.0	4443.9	3643.8
27.5°	5600.8	5638.9	5701.2	5843.2	5767.0	5708.2	5583.5	5219.8	4783.3	4644.8	3778.9
30°	5829.4	5860.6	5857.1	5947.1	5853.6	5836.3	5749.7	5417.2	4980.8	4842.2	3938.2
32.5°	6245.0	6276.2	6200.0	6165.4	5961.0	5964.5	5929.8	5628.5	5216.3	5074.3	4121.8
35°	6691.8	6726.5	6626.0	6567.1	6224.2	6123.8	6141.1	5891.7	5479.5	5337.5	4350.4
37.5°	7090.2	7131.7	7045.1	6958.5	6612.2	6380.1	6376.6	6186.1	5780.9	5635.4	4603.2
40°	7308.4	7356.9	7408.8	7360.3	6996.6	6740.3	6629.5	6487.5	6078.8	5929.8	4876.9
42.5°	7412.3	7547.4	7640.9	7609.7	7311.8	7052.1	6920.4	6802.7	6442.5	6297.0	5202.5
45°	7121.3	7124.8	7322.2	7491.9	7436.5	7263.3	7239.1	7156.0	6858.1	6719.5	5569.6
47.5°	6757.6	6729.9	6868.5	7169.8	7325.7	7370.7	7512.7	7547.4	7332.6	7194.1	5943.7
50°	5884.8	5902.1	6352.4	6785.4	7090.2	7381.1	7706.7	7949.2	7821.0	7689.4	6338.5
52.5°	4786.8	4828.4	5344.5	6297.0	6778.4	7277.2	7821.0	8350.9	8319.8	8195.1	6733.4
55°	3837.8	3903.6	4450.8	5483.0	6380.1	7045.1	7869.5	8718.1	8835.9	8721.6	7121.3
57.5°	2933.7	3003.0	3463.7	4523.6	5870.9	6667.6	7834.9	9040.2	9317.3	9244.6	7478.1
60°	2209.8	2279.1	2573.5	3668.0	5233.6	6245.0	7661.7	9251.5	9750.3	9674.1	7737.9
62.5°	1582.9	1638.3	1856.5	2854.1	4457.8	5742.8	7235.6	9255.0	9996.2	9933.8	7862.6
65°	1139.6	1139.6	1316.2	2036.6	3730.4	5140.1	6591.4	8828.9	9944.2	9926.9	7776.0
67.5°	820.9	827.8	969.8	1423.6	2975.3	4409.3	5756.6	8070.4	9542.4	9629.0	7464.2
70°	581.9	599.2	665.0	994.1	2247.9	3481.0	4863.0	7076.3	8818.5	8970.9	6861.6
72.5°	450.3	460.7	505.7	692.7	1641.8	2587.4	3875.9	5967.9	7852.2	8025.4	6040.7
75°	346.4	356.8	391.4	509.2	1177.7	1815.0	2753.6	4630.9	6331.6	6639.9	4852.6
77.5°	252.8	266.7	290.9	370.6	685.8	1153.4	1669.5	2604.7	3494.9	3640.3	2542.3
80°	117.8	135.1	169.7	239.0	370.6	543.8	592.3	1004.5	1679.9	1756.1	1378.5
82.5°	65.8	83.1	97.0	145.5	187.0	194.0	200.9	252.8	633.9	699.7	578.4
85°	31.2	41.6	45.0	62.3	62.3	55.4	65.8	48.5	103.9	124.7	121.2
87.5°	0.0	3.5	6.9	17.3	13.9	10.4	10.4	10.4	10.4	13.9	10.4
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: P836326

CATALOG NUMBER: ARCH3-170-730-U-T2U-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3009.9	3009.9	3009.9	3009.9	3009.9	3009.9	3009.9	3009.9	3009.9	3009.9	3009.9
2.5°	3030.7	2985.7	2881.8	2791.7	2732.8	2680.9	2611.6	2580.4	2525.0	2535.4	2504.2
5°	3048.0	2964.9	2781.3	2611.6	2486.9	2376.1	2254.9	2185.6	2109.4	2102.5	2078.2
7.5°	3058.4	2930.3	2667.0	2428.0	2237.5	2067.8	1905.0	1815.0	1721.5	1700.7	1679.9
10°	3048.0	2878.3	2549.3	2237.5	1984.7	1773.4	1589.8	1475.5	1378.5	1354.3	1333.5
12.5°	3058.4	2850.6	2438.4	2060.9	1759.6	1520.6	1312.7	1195.0	1104.9	1080.7	1066.8
15°	3082.7	2833.3	2344.9	1901.6	1558.7	1292.0	1087.6	987.1	914.4	890.2	883.2
17.5°	3103.5	2816.0	2244.5	1745.7	1357.8	1091.1	914.4	831.3	768.9	744.7	737.8
20°	3131.2	2791.7	2144.0	1596.8	1181.1	931.7	775.9	703.1	654.6	637.3	633.9
22.5°	3155.4	2774.4	2050.5	1447.8	1018.3	803.6	672.0	613.1	578.4	561.1	561.1
25°	3217.8	2781.3	1970.8	1309.3	897.1	703.1	592.3	547.3	519.6	509.2	509.2
27.5°	3290.5	2809.0	1908.5	1191.5	793.2	626.9	536.9	498.8	484.9	471.1	474.5
30°	3394.4	2864.5	1866.9	1094.5	717.0	568.0	491.8	464.1	450.3	446.8	446.8
32.5°	3526.0	2954.5	1863.5	1032.2	661.6	523.0	460.7	436.4	429.5	426.0	426.0
35°	3681.9	3034.2	1842.7	1004.5	626.9	491.8	436.4	419.1	415.6	415.6	415.6
37.5°	3868.9	3165.8	1828.8	966.4	609.6	474.5	419.1	405.3	405.3	405.3	405.3
40°	4062.9	3273.2	1808.0	931.7	602.7	464.1	408.7	391.4	391.4	391.4	391.4
42.5°	4295.0	3429.0	1801.1	914.4	592.3	457.2	394.9	374.1	377.5	377.5	381.0
45°	4575.5	3605.7	1797.7	897.1	588.8	450.3	381.0	356.8	360.2	356.8	356.8
47.5°	4859.5	3810.1	1808.0	886.7	585.4	443.4	370.6	339.4	339.4	336.0	336.0
50°	5157.4	3997.1	1815.0	876.3	578.4	429.5	353.3	325.6	318.7	311.7	315.2
52.5°	5438.0	4170.3	1818.4	859.0	557.7	408.7	339.4	308.3	297.9	287.5	290.9
55°	5718.5	4336.5	1825.4	838.2	529.9	387.9	322.1	290.9	277.1	263.2	263.2
57.5°	5971.4	4482.0	1808.0	786.3	498.8	367.2	304.8	270.2	249.4	235.5	235.5
60°	6144.6	4585.9	1756.1	710.1	457.2	342.9	287.5	249.4	225.1	214.7	214.7
62.5°	6227.7	4603.2	1662.6	585.4	405.3	318.7	266.7	228.6	207.8	200.9	200.9
65°	6148.0	4527.0	1517.1	439.9	349.8	290.9	245.9	211.3	190.5	173.2	173.2
67.5°	5870.9	4312.3	1316.2	332.5	297.9	263.2	225.1	194.0	169.7	155.9	155.9
70°	5313.3	3865.5	1018.3	266.7	252.8	228.6	204.4	173.2	152.4	135.1	135.1
72.5°	4582.5	3276.6	717.0	214.7	214.7	194.0	173.2	152.4	131.6	117.8	117.8
75°	3515.6	2424.6	481.5	173.2	176.6	162.8	142.0	124.7	110.8	100.4	100.4
77.5°	1918.9	1198.4	294.4	128.2	131.6	124.7	110.8	100.4	93.5	83.1	83.1
80°	931.7	526.5	169.7	90.1	93.5	90.1	83.1	72.7	72.7	65.8	65.8
82.5°	391.4	197.4	90.1	62.3	62.3	55.4	52.0	52.0	52.0	48.5	48.5
85°	97.0	38.1	38.1	34.6	34.6	34.6	31.2	31.2	31.2	24.2	27.7
87.5°	13.9	13.9	13.9	13.9	13.9	13.9	10.4	3.5	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)