

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: P835894

Luminaire Tested: **ARCH3-110-730-U-T2U-HSS**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P835894
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: ARCH3-110-730-U-T2U-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 880mA 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: 11700 lumens
Efficiency: N/A
Efficacy: 104.6 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

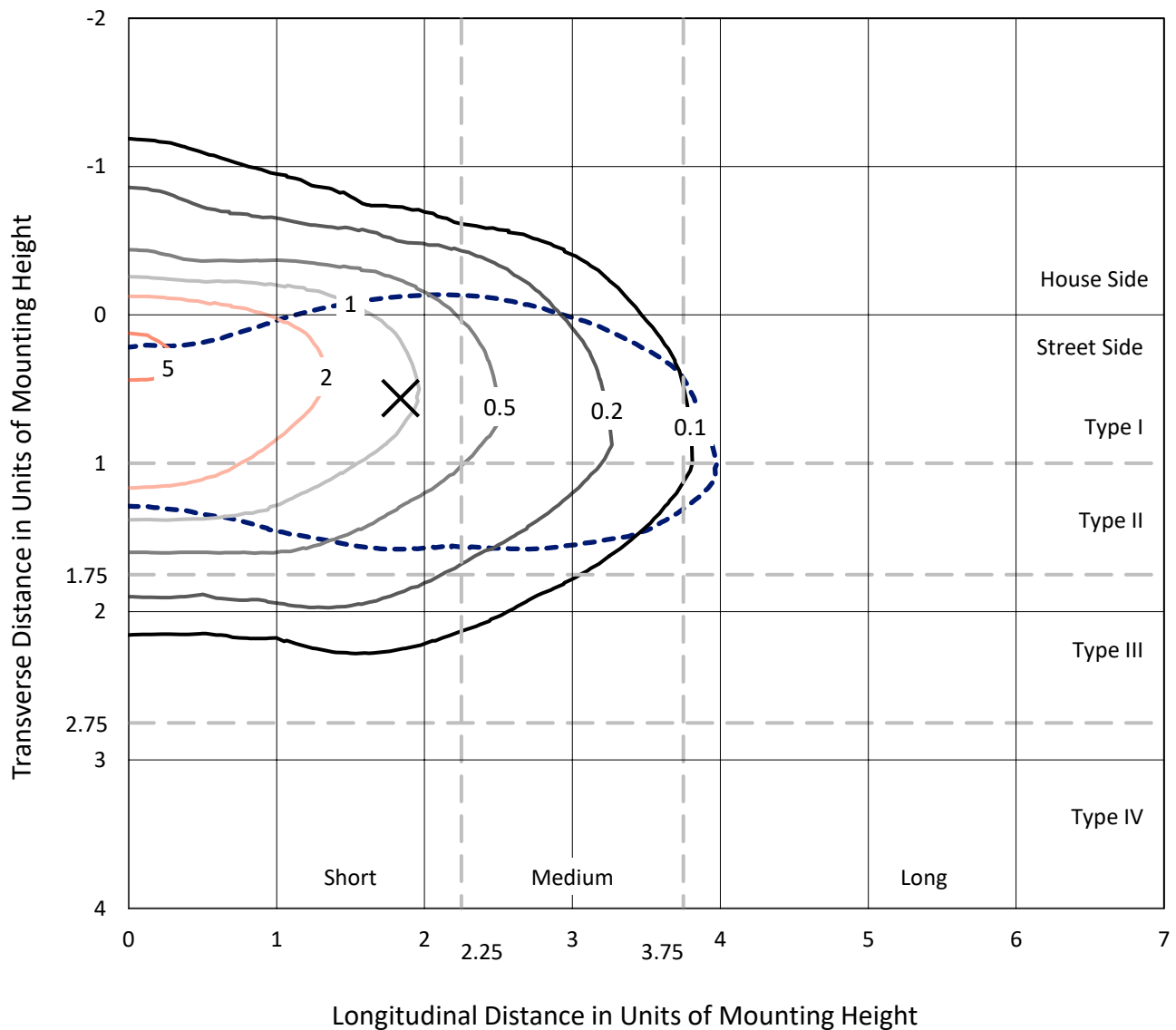
Input Watts (W): 111.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P835894
CATALOG NUMBER: ARCH3-110-730-U-T2U-HSS

Iso-Footcandle Lines of Horizontal Illumination

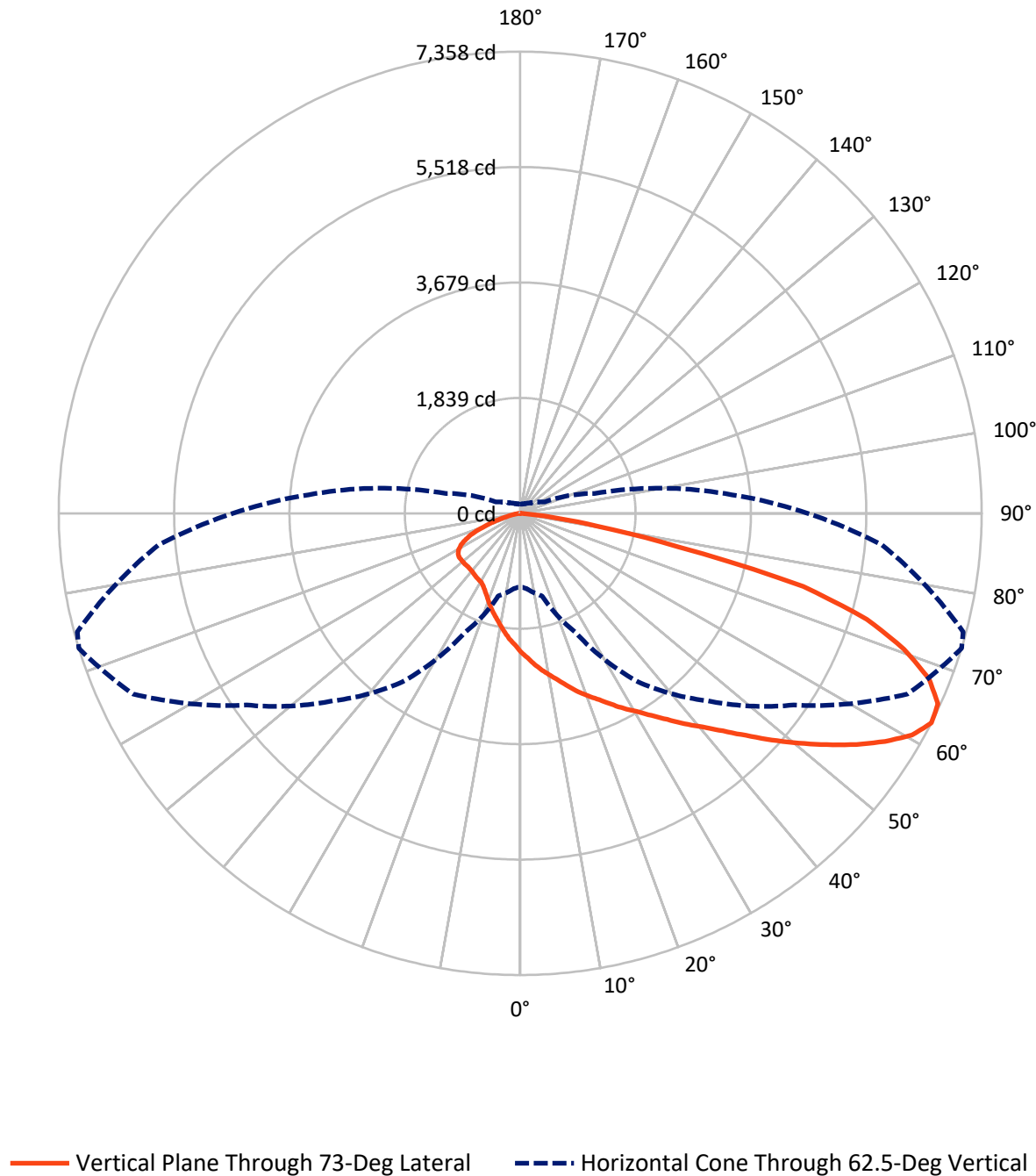
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 fc
Type II - Short - N/A

REPORT NUMBER: P835894
CATALOG NUMBER: ARCH3-110-730-U-T2U-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P835894

CATALOG NUMBER: ARCH3-110-730-U-T2U-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1813.7	0.0	1813.7
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	9886.3	0.0	9886.3
	% Fixture	84.5	0.0	84.5
Total	Lumens	11700.0	0.0	11700.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	214.0	1.8
10°-20°	645.8	5.5
20°-30°	1075.0	9.2
30°-40°	1622.0	13.9
40°-50°	2267.1	19.4
50°-60°	2504.2	21.4
60°-70°	2181.5	18.6
70°-80°	1102.0	9.4
80°-90°	88.4	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°	11700.0	100.0
0°-180°	11700.0	100.0

Coefficient of Utilization



REPORT NUMBER: P835894

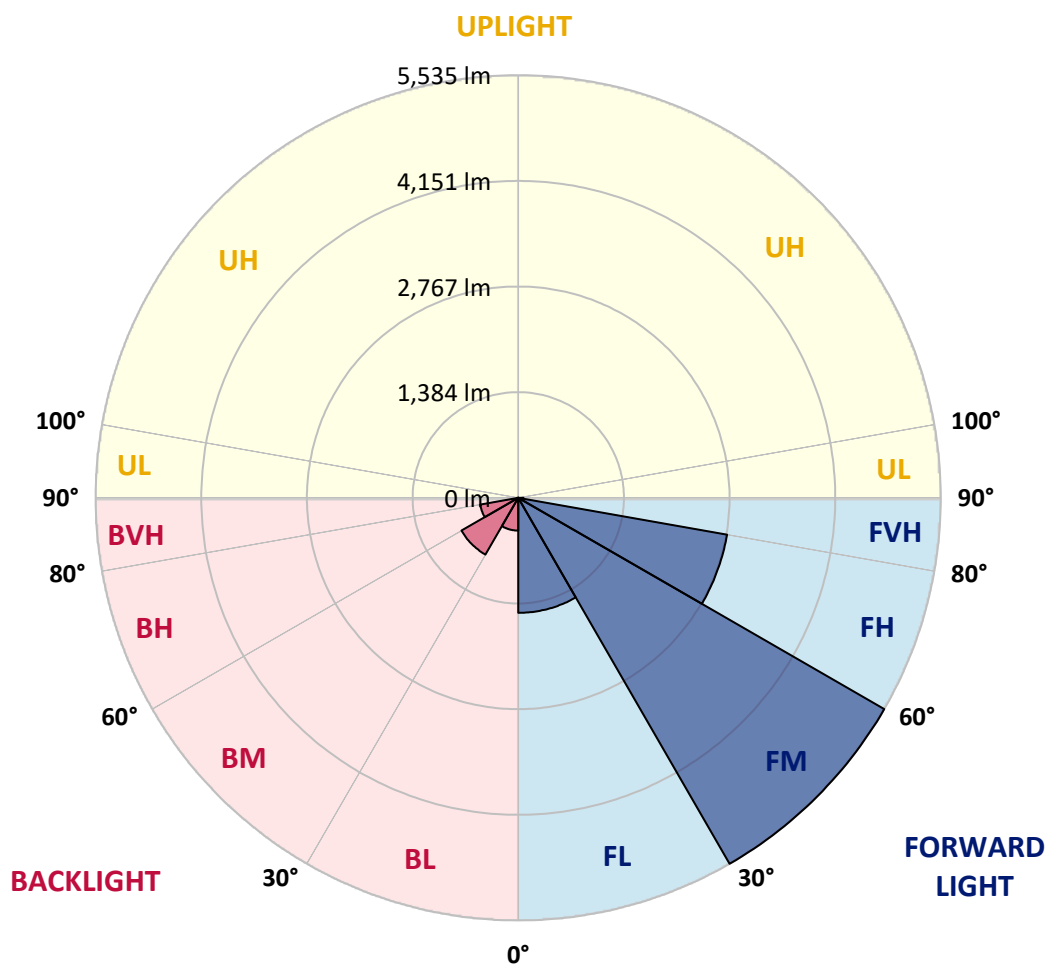
CATALOG NUMBER: ARCH3-110-730-U-T2U-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1506.1	12.9			
FM	(30°-60°)	5534.5	47.3			
FH	(60°-80°)	2777.2	23.7			G2/5000
FVH	(80°-90°)	68.4	0.6			G1/100
BL	(0°-30°)	428.7	3.7	B1/500		
BM	(30°-60°)	858.8	7.3	B1/1000		
BH	(60°-80°)	506.2	4.3	B2/1000		G2/1000
BVH	(80°-90°)	20.0	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: P835894

CATALOG NUMBER: ARCH3-110-730-U-T2U-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	73°	75°	85°
0°	2215.4	2215.4	2215.4	2215.4	2215.4	2215.4	2215.4	2215.4	2215.4	2215.4	2215.4
2.5°	2521.3	2549.4	2534.1	2544.3	2493.3	2460.2	2421.9	2348.0	2307.2	2302.1	2253.7
5°	2891.0	2921.6	2896.1	2888.5	2799.2	2722.7	2636.1	2506.1	2419.4	2404.1	2297.0
7.5°	3260.7	3288.7	3258.1	3235.2	3115.4	2980.2	2852.8	2661.6	2526.4	2501.0	2332.7
10°	3520.7	3546.2	3523.3	3500.3	3375.4	3237.7	3056.7	2806.9	2623.3	2582.5	2355.6
12.5°	3717.0	3732.3	3722.1	3701.7	3584.4	3436.6	3263.2	2970.0	2732.9	2682.0	2391.3
15°	3877.6	3903.1	3890.4	3875.1	3762.9	3615.0	3449.3	3140.8	2860.4	2796.7	2444.9
17.5°	3984.7	4002.5	4005.1	4005.1	3905.7	3760.4	3599.7	3296.4	2987.9	2906.3	2495.9
20°	4033.1	4053.5	4066.3	4086.7	4005.1	3880.2	3717.0	3428.9	3107.7	3015.9	2544.3
22.5°	4056.1	4073.9	4107.1	4153.0	4086.7	3982.1	3831.7	3551.3	3227.5	3130.7	2600.4
25°	4073.9	4096.9	4145.3	4232.0	4186.1	4096.9	3966.9	3691.5	3370.3	3270.9	2682.0
27.5°	4122.4	4150.4	4196.3	4300.8	4244.7	4201.4	4109.6	3841.9	3520.7	3418.7	2781.4
30°	4290.6	4313.6	4311.0	4377.3	4308.5	4295.7	4232.0	3987.2	3666.0	3564.0	2898.7
32.5°	4596.5	4619.5	4563.4	4537.9	4387.5	4390.0	4364.6	4142.8	3839.4	3734.9	3033.8
35°	4925.4	4950.9	4877.0	4833.6	4581.3	4507.3	4520.1	4336.5	4033.1	3928.6	3202.0
37.5°	5218.6	5249.2	5185.5	5121.7	4866.8	4696.0	4693.4	4553.2	4254.9	4147.9	3388.1
40°	5379.2	5414.9	5453.1	5417.5	5149.8	4961.1	4879.5	4775.0	4474.2	4364.6	3589.5
42.5°	5455.7	5555.1	5624.0	5601.0	5381.8	5190.6	5093.7	5007.0	4741.9	4634.8	3829.2
45°	5241.5	5244.1	5389.4	5514.3	5473.5	5346.1	5328.2	5267.0	5047.8	4945.8	4099.4
47.5°	4973.9	4953.5	5055.4	5277.2	5392.0	5425.1	5529.6	5555.1	5397.1	5295.1	4374.8
50°	4331.4	4344.2	4675.6	4994.3	5218.6	5432.7	5672.4	5850.8	5756.5	5659.6	4665.4
52.5°	3523.3	3553.8	3933.7	4634.8	4989.2	5356.3	5756.5	6146.6	6123.6	6031.9	4956.0
55°	2824.7	2873.2	3276.0	4035.7	4696.0	5185.5	5792.2	6416.8	6503.5	6419.4	5241.5
57.5°	2159.3	2210.3	2549.4	3329.5	4321.2	4907.6	5766.7	6653.9	6857.9	6804.3	5504.1
60°	1626.5	1677.5	1894.2	2699.8	3852.1	4596.5	5639.3	6809.4	7176.5	7120.4	5695.3
62.5°	1165.1	1205.9	1366.5	2100.7	3281.1	4226.9	5325.7	6812.0	7357.5	7311.7	5787.1
65°	838.7	838.7	968.8	1499.0	2745.7	3783.3	4851.5	6498.4	7319.3	7306.6	5723.4
67.5°	604.2	609.3	713.8	1047.8	2189.9	3245.4	4237.1	5940.1	7023.6	7087.3	5493.9
70°	428.3	441.0	489.5	731.7	1654.6	2562.1	3579.3	5208.4	6490.7	6602.9	5050.3
72.5°	331.4	339.1	372.2	509.9	1208.4	1904.4	2852.8	4392.6	5779.5	5906.9	4446.1
75°	254.9	262.6	288.1	374.8	866.8	1335.9	2026.8	3408.5	4660.3	4887.2	3571.7
77.5°	186.1	196.3	214.1	272.8	504.8	848.9	1228.8	1917.1	2572.3	2679.4	1871.3
80°	86.7	99.4	124.9	175.9	272.8	400.3	435.9	739.3	1236.5	1292.5	1014.7
82.5°	48.4	61.2	71.4	107.1	137.7	142.8	147.9	186.1	466.5	515.0	425.7
85°	22.9	30.6	33.1	45.9	45.9	40.8	48.4	35.7	76.5	91.8	89.2
87.5°	0.0	2.5	5.1	12.7	10.2	7.6	7.6	7.6	7.6	10.2	7.6
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: P835894

CATALOG NUMBER: ARCH3-110-730-U-T2U-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2215.4	2215.4	2215.4	2215.4	2215.4	2215.4	2215.4	2215.4	2215.4	2215.4	2215.4
2.5°	2230.7	2197.6	2121.1	2054.8	2011.5	1973.2	1922.2	1899.3	1858.5	1866.2	1843.2
5°	2243.5	2182.3	2047.2	1922.2	1830.5	1748.9	1659.7	1608.7	1552.6	1547.5	1529.6
7.5°	2251.1	2156.8	1963.0	1787.1	1646.9	1522.0	1402.2	1335.9	1267.0	1251.8	1236.5
10°	2243.5	2118.5	1876.4	1646.9	1460.8	1305.3	1170.2	1086.0	1014.7	996.8	981.5
12.5°	2251.1	2098.1	1794.8	1516.9	1295.1	1119.2	966.2	879.5	813.3	795.4	785.2
15°	2269.0	2085.4	1725.9	1399.6	1147.2	950.9	800.5	726.6	673.0	655.2	650.1
17.5°	2284.3	2072.7	1652.0	1284.9	999.4	803.1	673.0	611.9	566.0	548.1	543.0
20°	2304.6	2054.8	1578.1	1175.3	869.3	685.8	571.1	517.5	481.8	469.1	466.5
22.5°	2322.5	2042.1	1509.2	1065.6	749.5	591.5	494.6	451.2	425.7	413.0	413.0
25°	2368.4	2047.2	1450.6	963.7	660.3	517.5	435.9	402.8	382.4	374.8	374.8
27.5°	2421.9	2067.6	1404.7	877.0	583.8	461.4	395.2	367.1	356.9	346.7	349.3
30°	2498.4	2108.3	1374.1	805.6	527.7	418.1	362.0	341.6	331.4	328.9	328.9
32.5°	2595.3	2174.6	1371.6	759.7	486.9	385.0	339.1	321.2	316.1	313.6	313.6
35°	2710.0	2233.3	1356.3	739.3	461.4	362.0	321.2	308.5	305.9	305.9	305.9
37.5°	2847.7	2330.1	1346.1	711.3	448.7	349.3	308.5	298.3	298.3	298.3	298.3
40°	2990.4	2409.2	1330.8	685.8	443.6	341.6	300.8	288.1	288.1	288.1	288.1
42.5°	3161.2	2523.9	1325.7	673.0	435.9	336.5	290.6	275.3	277.9	277.9	280.4
45°	3367.7	2653.9	1323.1	660.3	433.4	331.4	280.4	262.6	265.1	262.6	262.6
47.5°	3576.8	2804.3	1330.8	652.6	430.8	326.3	272.8	249.8	249.8	247.3	247.3
50°	3796.0	2942.0	1335.9	645.0	425.7	316.1	260.0	239.6	234.5	229.4	232.0
52.5°	4002.5	3069.5	1338.4	632.2	410.5	300.8	249.8	226.9	219.2	211.6	214.1
55°	4209.0	3191.8	1343.5	617.0	390.1	285.5	237.1	214.1	204.0	193.8	193.8
57.5°	4395.1	3298.9	1330.8	578.7	367.1	270.2	224.3	198.9	183.6	173.4	173.4
60°	4522.6	3375.4	1292.5	522.6	336.5	252.4	211.6	183.6	165.7	158.1	158.1
62.5°	4583.8	3388.1	1223.7	430.8	298.3	234.5	196.3	168.3	153.0	147.9	147.9
65°	4525.2	3332.1	1116.6	323.8	257.5	214.1	181.0	155.5	140.2	127.5	127.5
67.5°	4321.2	3174.0	968.8	244.7	219.2	193.8	165.7	142.8	124.9	114.7	114.7
70°	3910.8	2845.1	749.5	196.3	186.1	168.3	150.4	127.5	112.2	99.4	99.4
72.5°	3372.8	2411.7	527.7	158.1	158.1	142.8	127.5	112.2	96.9	86.7	86.7
75°	2587.6	1784.6	354.4	127.5	130.0	119.8	104.5	91.8	81.6	73.9	73.9
77.5°	1412.4	882.1	216.7	94.3	96.9	91.8	81.6	73.9	68.8	61.2	61.2
80°	685.8	387.5	124.9	66.3	68.8	66.3	61.2	53.5	53.5	48.4	48.4
82.5°	288.1	145.3	66.3	45.9	45.9	40.8	38.2	38.2	38.2	35.7	35.7
85°	71.4	28.0	28.0	25.5	25.5	25.5	22.9	22.9	22.9	17.8	20.4
87.5°	10.2	10.2	10.2	10.2	10.2	10.2	7.6	2.5	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)