

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: P842029

Luminaire Tested: **ARCH4-260-730-U-T2U-HSS**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P842029
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: ARCH4-260-730-U-T2U-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 1010mA 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: 26436 lumens
Efficiency: N/A
Efficacy: 102.0 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 259.2
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



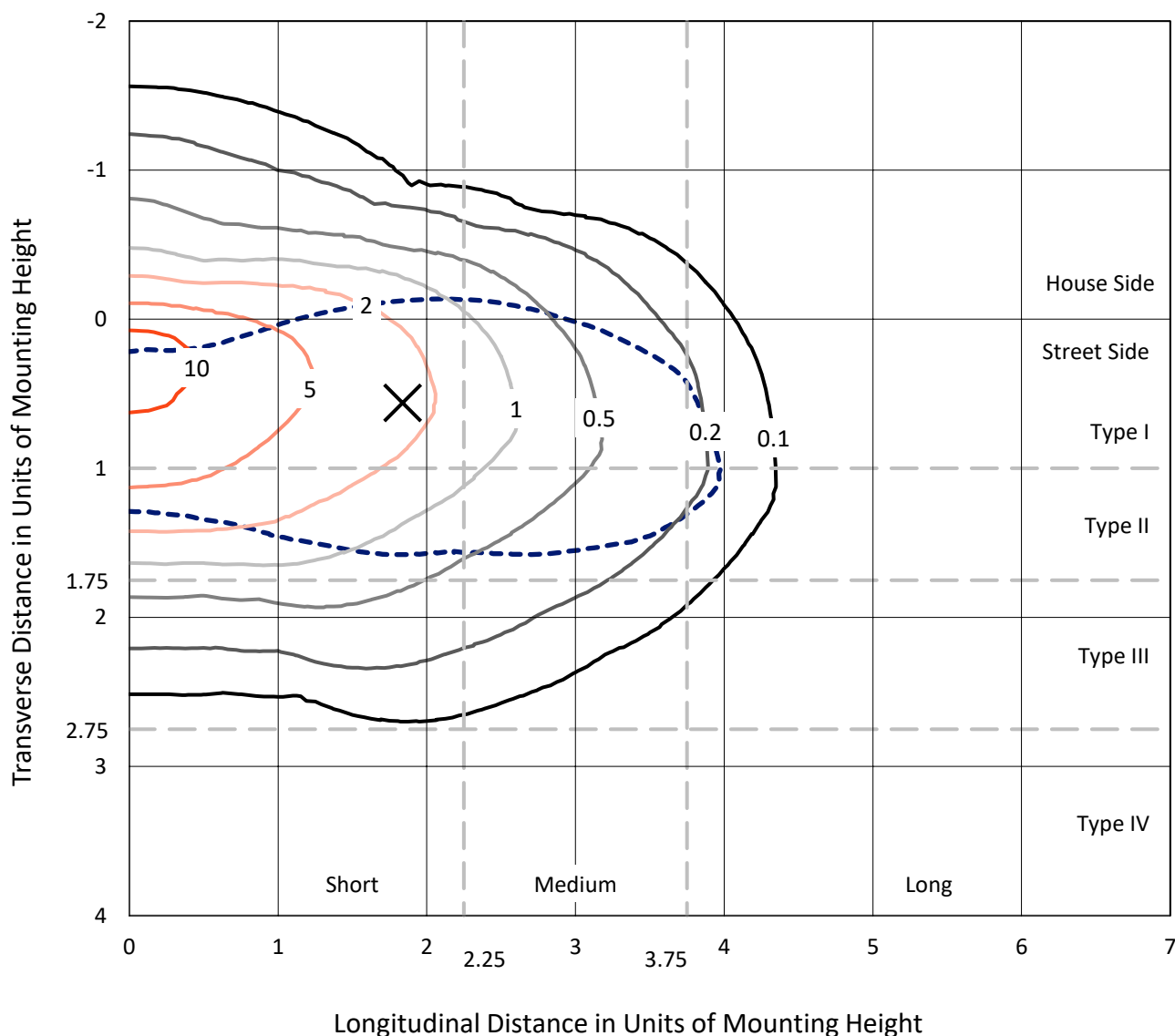
REPORT NUMBER: P842029

CATALOG NUMBER: ARCH4-260-730-U-T2U-HSS

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

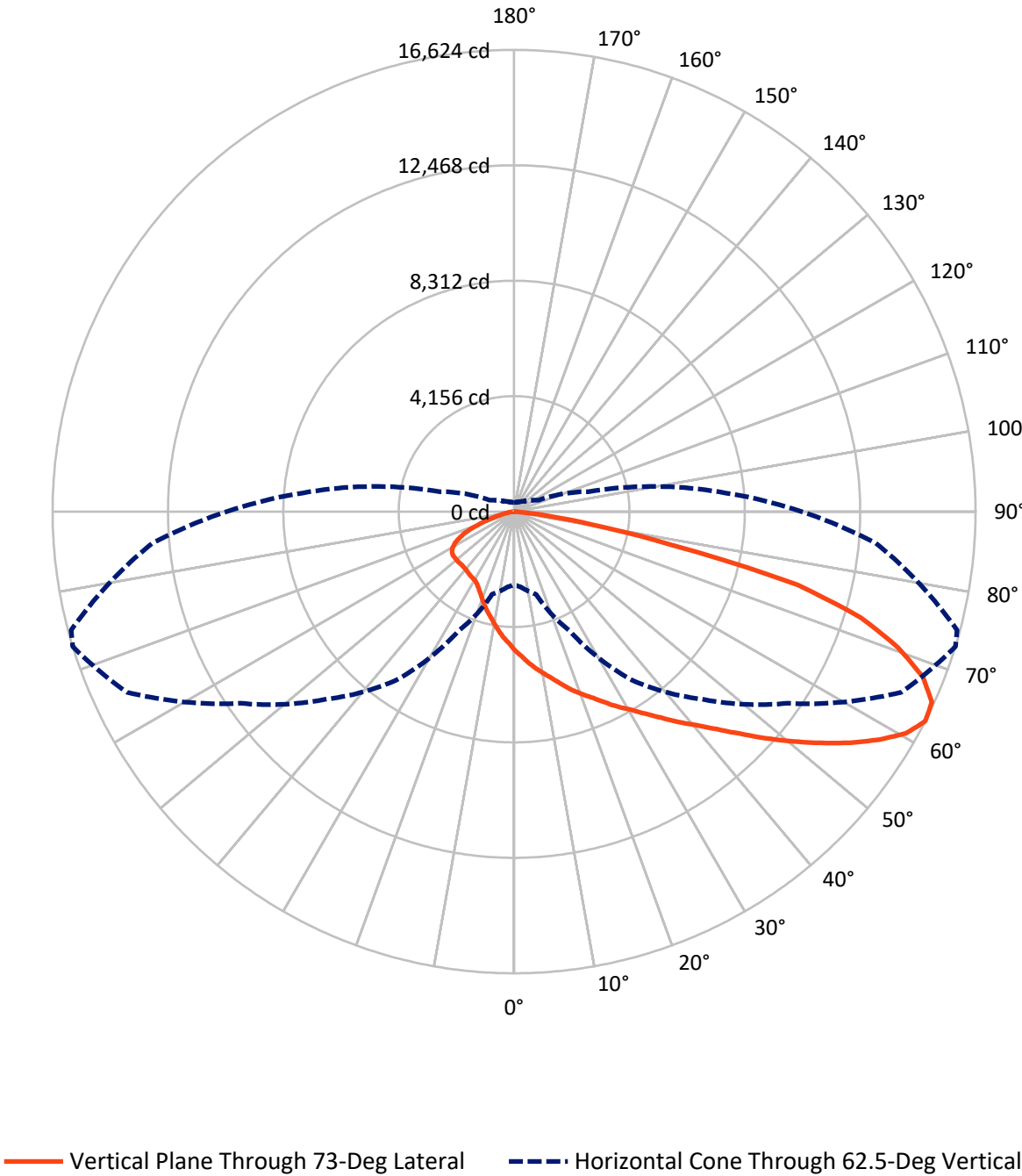


Based on 25 foot mounting height. Maximum calculated value = 12.6 fc

Type II - Short - N/A

REPORT NUMBER: P842029
CATALOG NUMBER: ARCH4-260-730-U-T2U-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P842029

CATALOG NUMBER: ARCH4-260-730-U-T2U-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4098.0	0.0	4098.0
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	22338.0	0.0	22338.0
	% Fixture	84.5	0.0	84.5
Total	Lumens	26436.0	0.0	26436.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	483.6	1.8
10°-20°	1459.2	5.5
20°-30°	2428.9	9.2
30°-40°	3664.9	13.9
40°-50°	5122.5	19.4
50°-60°	5658.2	21.4
60°-70°	4929.0	18.6
70°-80°	2489.8	9.4
80°-90°	199.8	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°	26436.0	100.0
0°-180°	26436.0	100.0

Coefficient of Utilization



REPORT NUMBER: P842029

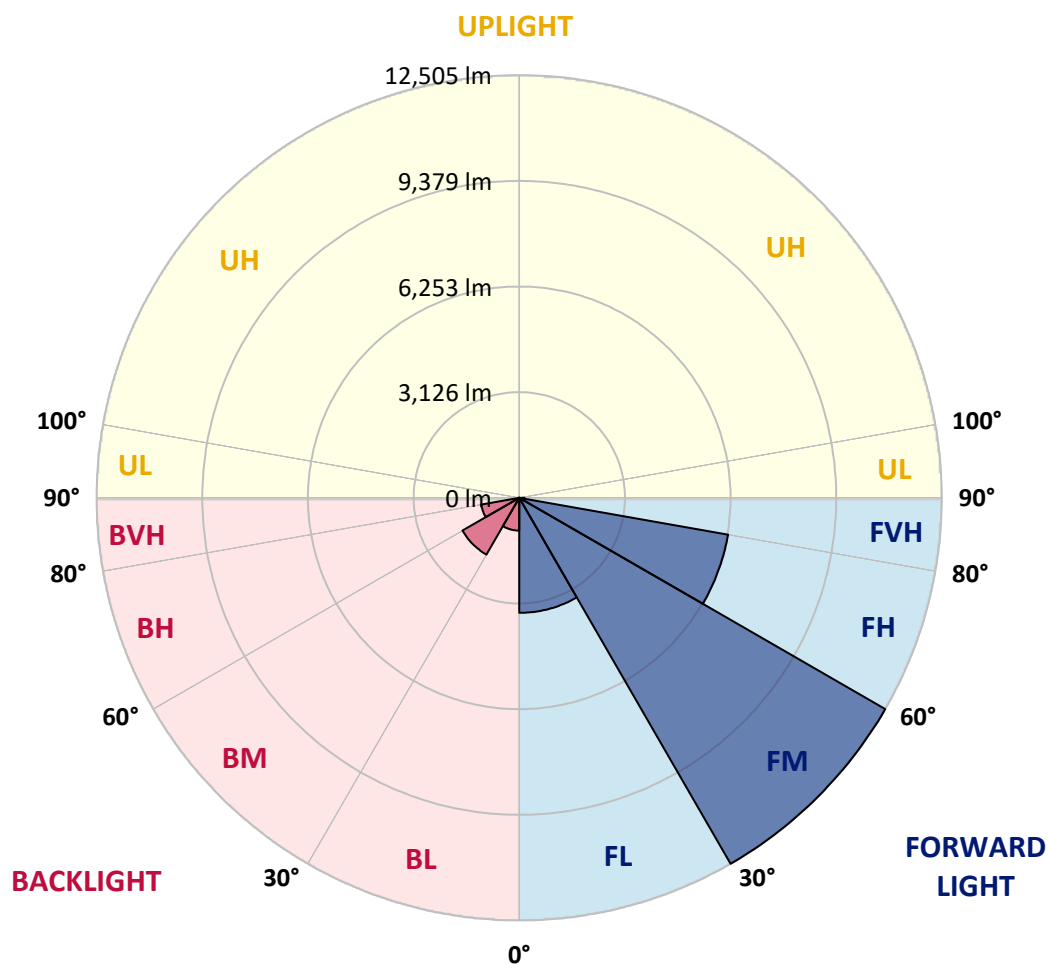
CATALOG NUMBER: ARCH4-260-730-U-T2U-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3403.1	12.9			
FM	(30°-60°)	12505.2	47.3			
FH	(60°-80°)	6275.0	23.7			G3/7500
FVH	(80°-90°)	154.7	0.6			G2/225
BL	(0°-30°)	968.6	3.7	B2/1000		
BM	(30°-60°)	1940.4	7.3	B2/2500		
BH	(60°-80°)	1143.8	4.3	B3/2500		G3/2500
BVH	(80°-90°)	45.2	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short



REPORT NUMBER: P842029

CATALOG NUMBER: ARCH4-260-730-U-T2U-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	73°	75°	85°
0°	5005.7	5005.7	5005.7	5005.7	5005.7	5005.7	5005.7	5005.7	5005.7	5005.7	5005.7
2.5°	5697.0	5760.3	5725.8	5748.8	5633.6	5558.7	5472.3	5305.2	5213.1	5201.6	5092.1
5°	6532.2	6601.3	6543.7	6526.4	6324.8	6152.0	5956.2	5662.4	5466.5	5432.0	5190.0
7.5°	7367.4	7430.8	7361.7	7309.8	7039.1	6733.8	6445.8	6013.8	5708.5	5650.9	5270.7
10°	7955.0	8012.6	7960.8	7908.9	7626.7	7315.6	6906.6	6342.1	5927.4	5835.2	5322.5
12.5°	8398.5	8433.1	8410.1	8364.0	8099.0	7764.9	7373.2	6710.8	6175.1	6059.9	5403.2
15°	8761.4	8819.0	8790.2	8755.7	8502.2	8168.1	7793.7	7096.7	6463.1	6319.1	5524.1
17.5°	9003.4	9043.7	9049.5	9049.5	8824.8	8496.5	8133.6	7448.1	6751.1	6566.8	5639.3
20°	9112.8	9158.9	9187.7	9233.8	9049.5	8767.2	8398.5	7747.6	7021.8	6814.5	5748.8
22.5°	9164.7	9205.0	9279.9	9383.6	9233.8	8997.6	8657.8	8024.1	7292.6	7073.7	5875.5
25°	9205.0	9256.8	9366.3	9562.1	9458.4	9256.8	8963.0	8340.9	7615.1	7390.5	6059.9
27.5°	9314.4	9377.8	9481.5	9717.6	9590.9	9493.0	9285.6	8680.8	7955.0	7724.6	6284.5
30°	9694.6	9746.5	9740.7	9890.5	9734.9	9706.1	9562.1	9009.1	8283.3	8052.9	6549.5
32.5°	10385.8	10437.7	10311.0	10253.4	9913.5	9919.3	9861.7	9360.5	8675.0	8438.9	6854.8
35°	11128.9	11186.5	11019.5	10921.6	10351.3	10184.2	10213.0	9798.3	9112.8	8876.6	7235.0
37.5°	11791.4	11860.5	11716.5	11572.5	10996.4	10610.5	10604.7	10287.9	9614.0	9372.0	7655.5
40°	12154.3	12234.9	12321.3	12240.7	11635.8	11209.6	11025.2	10789.1	10109.4	9861.7	8110.5
42.5°	12327.1	12551.7	12707.3	12655.4	12160.0	11728.0	11509.1	11313.3	10714.2	10472.3	8652.0
45°	11843.2	11849.0	12177.3	12459.6	12367.4	12079.4	12039.1	11900.8	11405.4	11175.0	9262.6
47.5°	11238.4	11192.3	11422.7	11923.8	12183.1	12257.9	12494.1	12551.7	12194.6	11964.2	9884.7
50°	9786.8	9815.6	10564.4	11284.5	11791.4	12275.2	12816.7	13219.9	13006.8	12787.9	10541.4
52.5°	7960.8	8029.9	8888.2	10472.3	11272.9	12102.4	13006.8	13888.1	13836.3	13628.9	11198.0
55°	6382.4	6491.9	7402.0	9118.6	10610.5	11716.5	13087.4	14498.7	14694.6	14504.5	11843.2
57.5°	4879.0	4994.2	5760.3	7523.0	9763.7	11088.6	13029.8	15034.4	15495.2	15374.3	12436.5
60°	3675.1	3790.3	4279.9	6100.2	8703.8	10385.8	12741.8	15385.8	16215.3	16088.6	12868.5
62.5°	2632.5	2724.6	3087.5	4746.5	7413.5	9550.6	12033.3	15391.6	16624.3	16520.6	13075.9
65°	1895.1	1895.1	2188.9	3387.1	6203.9	8548.3	10961.9	14683.0	16537.9	16509.1	12931.9
67.5°	1365.2	1376.7	1612.9	2367.5	4948.1	7332.9	9573.6	13421.5	15869.7	16013.7	12413.5
70°	967.7	996.5	1106.0	1653.2	3738.4	5789.1	8087.5	11768.3	14665.8	14919.2	11411.2
72.5°	748.8	766.1	841.0	1152.1	2730.4	4303.0	6445.8	9925.0	13058.6	13346.6	10046.0
75°	576.0	593.3	650.9	846.8	1958.5	3018.4	4579.4	7701.5	10529.9	11042.5	8070.2
77.5°	420.5	443.5	483.9	616.4	1140.5	1918.2	2776.5	4331.8	5812.2	6054.1	4228.1
80°	195.9	224.7	282.3	397.5	616.4	904.4	985.0	1670.5	2793.8	2920.5	2292.6
82.5°	109.4	138.2	161.3	241.9	311.1	322.6	334.1	420.5	1054.1	1163.6	962.0
85°	51.8	69.1	74.9	103.7	103.7	92.2	109.4	80.6	172.8	207.4	201.6
87.5°	0.0	5.8	11.5	28.8	23.0	17.3	17.3	17.3	17.3	23.0	17.3
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: P842029

CATALOG NUMBER: ARCH4-260-730-U-T2U-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5005.7	5005.7	5005.7	5005.7	5005.7	5005.7	5005.7	5005.7	5005.7	5005.7	5005.7
2.5°	5040.3	4965.4	4792.6	4642.8	4544.9	4458.5	4343.3	4291.4	4199.3	4216.5	4164.7
5°	5069.1	4930.8	4625.5	4343.3	4135.9	3951.6	3750.0	3634.8	3508.0	3496.5	3456.2
7.5°	5086.4	4873.2	4435.4	4038.0	3721.2	3438.9	3168.2	3018.4	2862.9	2828.3	2793.8
10°	5069.1	4786.8	4239.6	3721.2	3300.7	2949.3	2644.0	2453.9	2292.6	2252.3	2217.7
12.5°	5086.4	4740.7	4055.3	3427.4	2926.2	2528.8	2183.2	1987.3	1837.5	1797.2	1774.2
15°	5126.7	4711.9	3899.7	3162.4	2592.1	2148.6	1808.7	1641.7	1520.7	1480.4	1468.9
17.5°	5161.2	4683.1	3732.7	2903.2	2258.0	1814.5	1520.7	1382.5	1278.8	1238.5	1226.9
20°	5207.3	4642.8	3565.6	2655.5	1964.3	1549.5	1290.3	1169.3	1088.7	1059.9	1054.1
22.5°	5247.6	4614.0	3410.1	2407.8	1693.5	1336.4	1117.5	1019.6	962.0	933.2	933.2
25°	5351.3	4625.5	3277.6	2177.4	1491.9	1169.3	985.0	910.1	864.0	846.8	846.8
27.5°	5472.3	4671.6	3173.9	1981.5	1319.1	1042.6	892.8	829.5	806.4	783.4	789.2
30°	5645.1	4763.8	3104.8	1820.3	1192.4	944.7	818.0	771.9	748.8	743.1	743.1
32.5°	5864.0	4913.5	3099.0	1716.6	1100.2	869.8	766.1	725.8	714.3	708.5	708.5
35°	6123.2	5046.0	3064.5	1670.5	1042.6	818.0	725.8	697.0	691.2	691.2	691.2
37.5°	6434.3	5264.9	3041.4	1607.1	1013.8	789.2	697.0	674.0	674.0	674.0	674.0
40°	6756.8	5443.5	3006.9	1549.5	1002.3	771.9	679.7	650.9	650.9	650.9	650.9
42.5°	7142.8	5702.7	2995.4	1520.7	985.0	760.4	656.7	622.1	627.9	627.9	633.6
45°	7609.4	5996.5	2989.6	1491.9	979.3	748.8	633.6	593.3	599.1	593.3	593.3
47.5°	8081.7	6336.3	3006.9	1474.6	973.5	737.3	616.4	564.5	564.5	558.8	558.8
50°	8577.1	6647.4	3018.4	1457.4	962.0	714.3	587.6	541.5	529.9	518.4	524.2
52.5°	9043.7	6935.4	3024.2	1428.6	927.4	679.7	564.5	512.7	495.4	478.1	483.9
55°	9510.3	7211.9	3035.7	1394.0	881.3	645.2	535.7	483.9	460.8	437.8	437.8
57.5°	9930.8	7453.8	3006.9	1307.6	829.5	610.6	506.9	449.3	414.7	391.7	391.7
60°	10218.8	7626.7	2920.5	1180.9	760.4	570.3	478.1	414.7	374.4	357.1	357.1
62.5°	10357.0	7655.5	2765.0	973.5	674.0	529.9	443.5	380.2	345.6	334.1	334.1
65°	10224.6	7528.7	2523.0	731.6	581.8	483.9	409.0	351.4	316.8	288.0	288.0
67.5°	9763.7	7171.6	2188.9	553.0	495.4	437.8	374.4	322.6	282.3	259.2	259.2
70°	8836.3	6428.5	1693.5	443.5	420.5	380.2	339.9	288.0	253.5	224.7	224.7
72.5°	7620.9	5449.3	1192.4	357.1	357.1	322.6	288.0	253.5	218.9	195.9	195.9
75°	5846.7	4032.2	800.7	288.0	293.8	270.7	236.2	207.4	184.3	167.0	167.0
77.5°	3191.2	1993.1	489.6	213.1	218.9	207.4	184.3	167.0	155.5	138.2	138.2
80°	1549.5	875.6	282.3	149.8	155.5	149.8	138.2	121.0	121.0	109.4	109.4
82.5°	650.9	328.3	149.8	103.7	103.7	92.2	86.4	86.4	86.4	80.6	80.6
85°	161.3	63.4	63.4	57.6	57.6	57.6	51.8	51.8	51.8	40.3	46.1
87.5°	23.0	23.0	23.0	23.0	23.0	23.0	17.3	5.8	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)