

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: P841732

Luminaire Tested: **ARCH4-220-727-U-T2U-HSS**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841732
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: ARCH4-220-727-U-T2U-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 870mA 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: 22636 lumens
Efficiency: N/A
Efficacy: 102.1 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 221.8
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



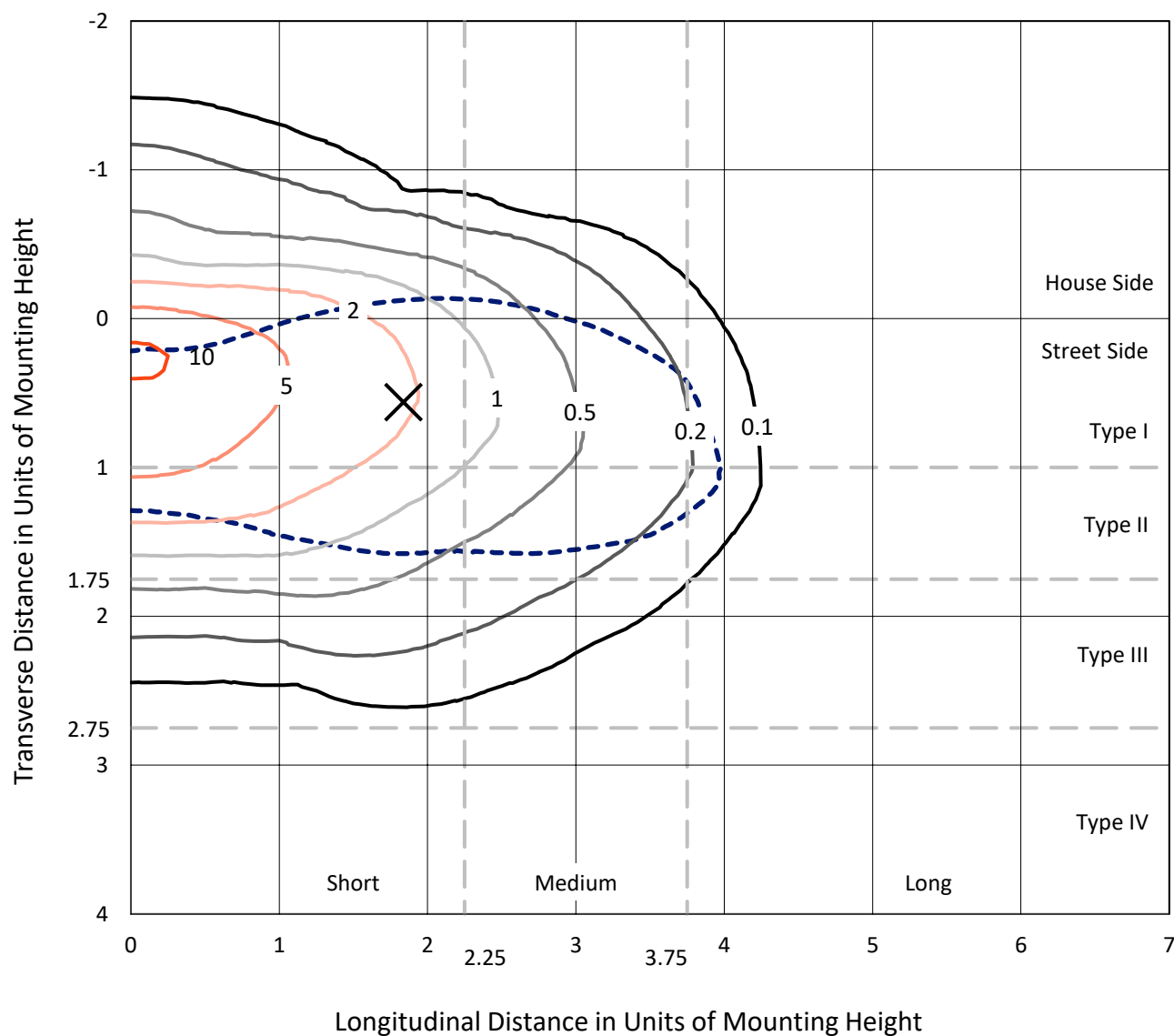
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

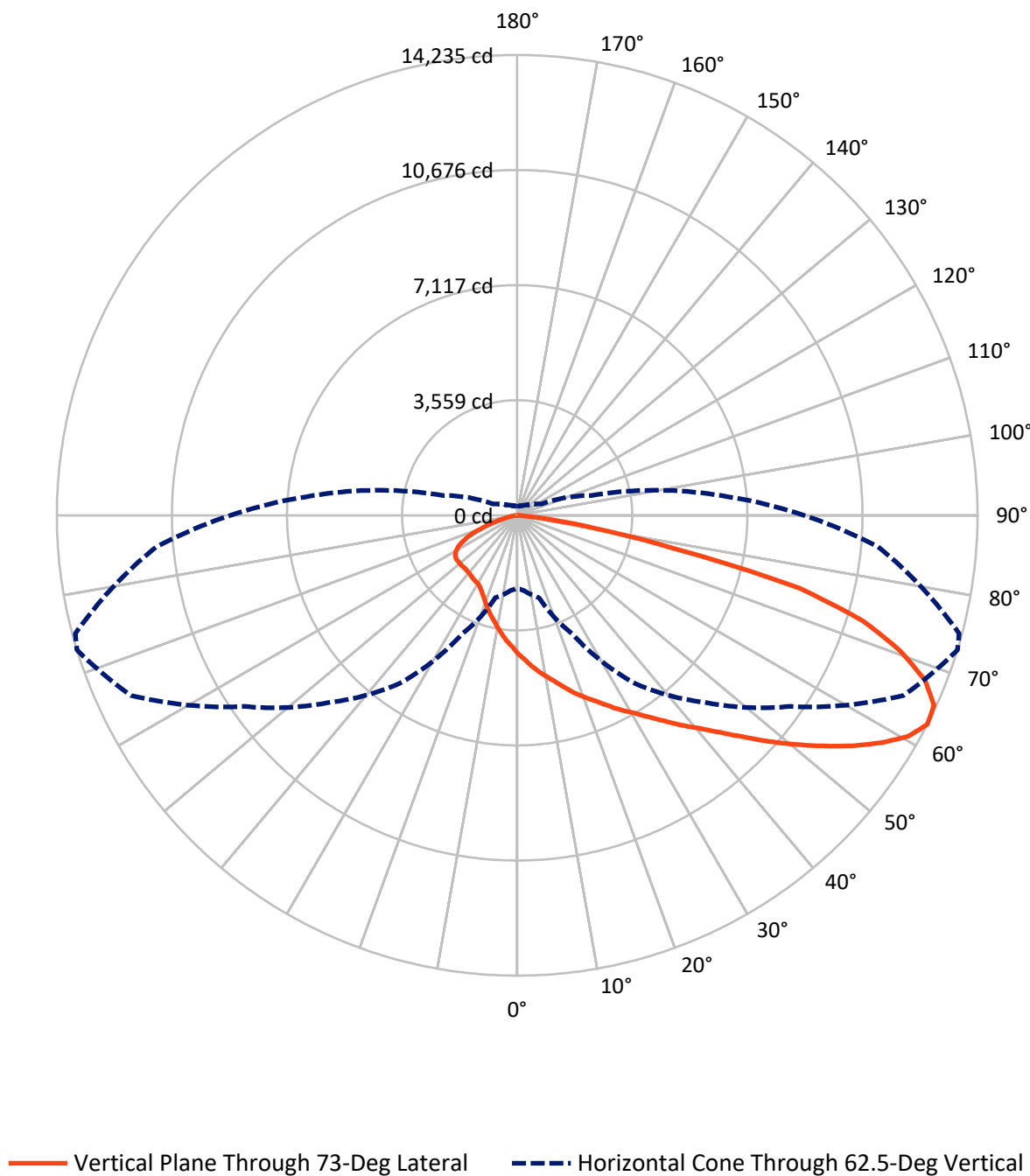


Based on 25 foot mounting height. Maximum calculated value = 10.8 fc

Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3508.9	0.0	3508.9
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	19127.1	0.0	19127.1
	% Fixture	84.5	0.0	84.5
Total	Lumens	22636.0	0.0	22636.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	414.1	1.8
10°-20°	1249.5	5.5
20°-30°	2079.8	9.2
30°-40°	3138.1	13.9
40°-50°	4386.2	19.4
50°-60°	4844.8	21.4
60°-70°	4220.5	18.6
70°-80°	2131.9	9.4
80°-90°	171.1	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°	22636.0	100.0
0°-180°	22636.0	100.0

Coefficient of Utilization



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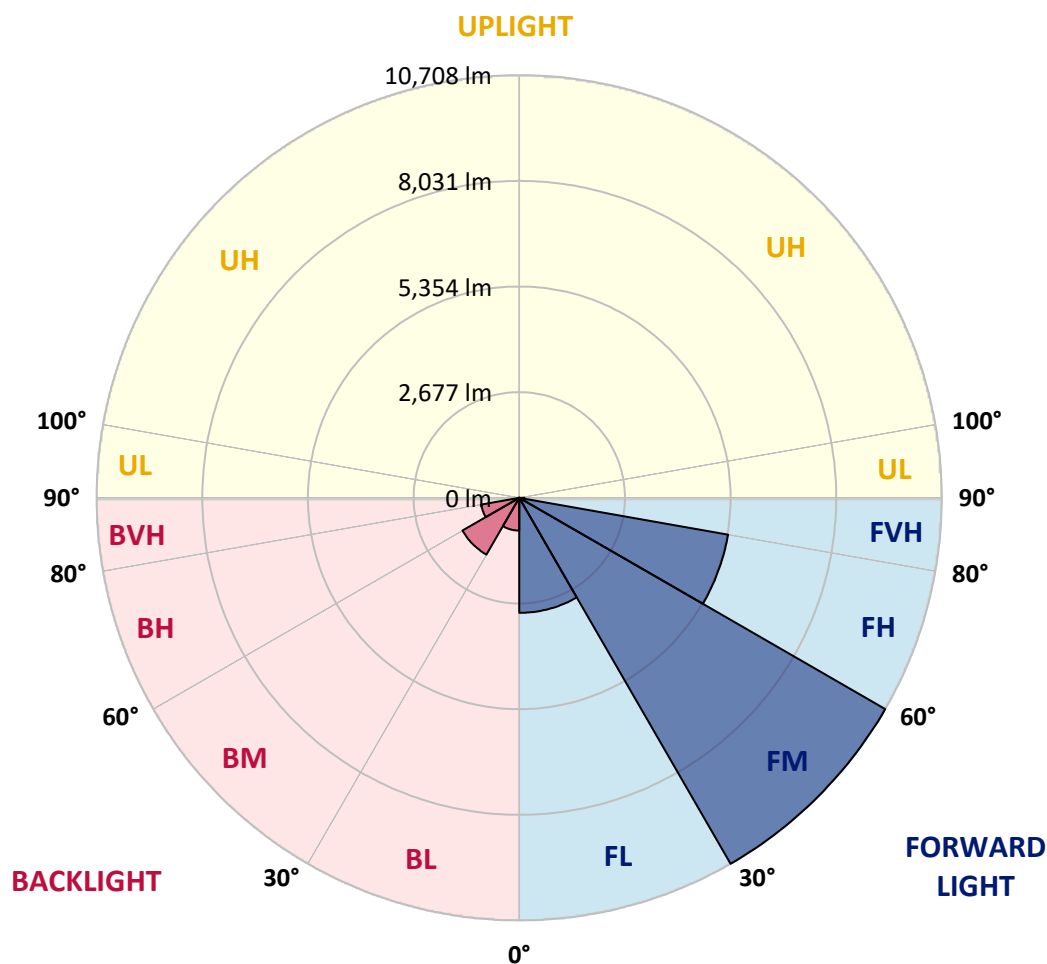
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2913.9	12.9			
FM	(30°-60°)	10707.7	47.3			
FH	(60°-80°)	5373.1	23.7			G3/7500
FVH	(80°-90°)	132.4	0.6			G2/225
BL	(0°-30°)	829.4	3.7	B2/1000		
BM	(30°-60°)	1661.5	7.3	B2/2500		
BH	(60°-80°)	979.4	4.3	B2/1000		G2/1000
BVH	(80°-90°)	38.7	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-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	73°	75°	85°
0°	4286.2	4286.2	4286.2	4286.2	4286.2	4286.2	4286.2	4286.2	4286.2	4286.2	4286.2
2.5°	4878.1	4932.3	4902.7	4922.4	4823.8	4759.7	4685.7	4542.7	4463.7	4453.9	4360.2
5°	5593.2	5652.4	5603.1	5588.3	5415.7	5267.7	5100.0	4848.5	4680.8	4651.2	4444.0
7.5°	6308.4	6362.7	6303.5	6259.1	6027.3	5765.9	5519.3	5149.3	4887.9	4838.6	4513.1
10°	6811.5	6860.8	6816.4	6772.1	6530.4	6264.0	5913.8	5430.5	5075.3	4996.4	4557.5
12.5°	7191.3	7220.9	7201.2	7161.7	6934.8	6648.7	6313.4	5746.1	5287.4	5188.8	4626.5
15°	7502.0	7551.4	7526.7	7497.1	7280.1	6994.0	6673.4	6076.6	5534.0	5410.7	4730.1
17.5°	7709.2	7743.7	7748.7	7748.7	7556.3	7275.2	6964.4	6377.5	5780.7	5622.8	4828.7
20°	7802.9	7842.4	7867.0	7906.5	7748.7	7507.0	7191.3	6634.0	6012.5	5834.9	4922.4
22.5°	7847.3	7881.8	7945.9	8034.7	7906.5	7704.3	7413.3	6870.7	6244.3	6056.9	5031.0
25°	7881.8	7926.2	8019.9	8187.6	8098.8	7926.2	7674.7	7142.0	6520.5	6328.1	5188.8
27.5°	7975.5	8029.8	8118.6	8320.8	8212.3	8128.4	7950.9	7433.0	6811.5	6614.2	5381.1
30°	8301.1	8345.5	8340.5	8468.8	8335.6	8310.9	8187.6	7714.1	7092.7	6895.4	5608.0
32.5°	8892.9	8937.3	8828.8	8779.5	8488.5	8493.4	8444.1	8015.0	7428.1	7225.8	5869.4
35°	9529.2	9578.5	9435.5	9351.7	8863.4	8720.3	8745.0	8389.9	7802.9	7600.7	6195.0
37.5°	10096.4	10155.6	10032.3	9909.0	9415.8	9085.3	9080.4	8809.1	8232.0	8024.9	6555.0
40°	10407.2	10476.2	10550.2	10481.2	9963.3	9598.3	9440.4	9238.2	8656.2	8444.1	6944.7
42.5°	10555.1	10747.5	10880.7	10836.3	10412.1	10042.2	9854.7	9687.1	9174.1	8966.9	7408.3
45°	10140.8	10145.8	10426.9	10668.6	10589.7	10343.0	10308.5	10190.1	9766.0	9568.7	7931.1
47.5°	9622.9	9583.5	9780.8	10209.9	10431.8	10495.9	10698.2	10747.5	10441.7	10244.4	8463.8
50°	8380.0	8404.7	9045.9	9662.4	10096.4	10510.7	10974.4	11319.6	11137.1	10949.7	9026.1
52.5°	6816.4	6875.6	7610.5	8966.9	9652.5	10362.8	11137.1	11891.8	11847.4	11669.8	9588.4
55°	5465.0	5558.7	6338.0	7807.8	9085.3	10032.3	11206.2	12414.6	12582.3	12419.5	10140.8
57.5°	4177.7	4276.3	4932.3	6441.6	8360.3	9494.7	11156.9	12873.3	13267.9	13164.3	10648.9
60°	3146.8	3245.5	3664.7	5223.3	7452.7	8892.9	10910.3	13174.2	13884.4	13775.9	11018.8
62.5°	2254.1	2333.0	2643.7	4064.2	6347.9	8177.8	10303.6	13179.1	14234.6	14145.9	11196.3
65°	1622.7	1622.7	1874.3	2900.2	5312.1	7319.5	9386.2	12572.4	14160.7	14136.0	11073.0
67.5°	1169.0	1178.8	1381.0	2027.2	4236.9	6278.8	8197.5	11492.3	13588.5	13711.8	10629.1
70°	828.6	853.3	947.0	1415.6	3201.1	4957.0	6925.0	10076.7	12557.7	12774.7	9770.9
72.5°	641.2	656.0	720.1	986.5	2337.9	3684.4	5519.3	8498.4	11181.5	11428.2	8601.9
75°	493.2	508.0	557.4	725.0	1677.0	2584.5	3921.2	6594.5	9016.3	9455.2	6910.2
77.5°	360.1	379.8	414.3	527.8	976.6	1642.5	2377.4	3709.1	4976.7	5183.9	3620.3
80°	167.7	192.4	241.7	340.3	527.8	774.4	843.4	1430.4	2392.2	2500.7	1963.1
82.5°	93.7	118.4	138.1	207.2	266.3	276.2	286.1	360.1	902.6	996.3	823.7
85°	44.4	59.2	64.1	88.8	88.8	78.9	93.7	69.1	148.0	177.6	172.6
87.5°	0.0	4.9	9.9	24.7	19.7	14.8	14.8	14.8	14.8	19.7	14.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4286.2	4286.2	4286.2	4286.2	4286.2	4286.2	4286.2	4286.2	4286.2	4286.2	4286.2
2.5°	4315.8	4251.6	4103.7	3975.4	3891.6	3817.6	3719.0	3674.6	3595.7	3610.4	3566.1
5°	4340.4	4222.1	3960.6	3719.0	3541.4	3383.6	3210.9	3112.3	3003.8	2993.9	2959.4
7.5°	4355.2	4172.7	3797.9	3457.5	3186.3	2944.6	2712.8	2584.5	2451.4	2421.8	2392.2
10°	4340.4	4098.7	3630.2	3186.3	2826.2	2525.3	2263.9	2101.2	1963.1	1928.5	1898.9
12.5°	4355.2	4059.3	3472.3	2934.7	2505.6	2165.3	1869.3	1701.6	1573.4	1538.9	1519.2
15°	4389.8	4034.6	3339.2	2707.8	2219.5	1839.8	1548.7	1405.7	1302.1	1267.6	1257.7
17.5°	4419.3	4010.0	3196.1	2485.9	1933.5	1553.7	1302.1	1183.8	1095.0	1060.4	1050.6
20°	4458.8	3975.4	3053.1	2273.8	1681.9	1326.8	1104.8	1001.3	932.2	907.5	902.6
22.5°	4493.3	3950.8	2919.9	2061.7	1450.1	1144.3	956.9	873.0	823.7	799.0	799.0
25°	4582.1	3960.6	2806.5	1864.4	1277.5	1001.3	843.4	779.3	739.8	725.0	725.0
27.5°	4685.7	4000.1	2717.7	1696.7	1129.5	892.7	764.5	710.3	690.5	670.8	675.7
30°	4833.7	4079.0	2658.5	1558.6	1021.0	808.9	700.4	660.9	641.2	636.3	636.3
32.5°	5021.1	4207.3	2653.6	1469.8	942.1	744.8	656.0	621.5	611.6	606.7	606.7
35°	5243.0	4320.7	2624.0	1430.4	892.7	700.4	621.5	596.8	591.9	591.9	591.9
37.5°	5509.4	4508.1	2604.3	1376.1	868.1	675.7	596.8	577.1	577.1	577.1	577.1
40°	5785.6	4661.0	2574.7	1326.8	858.2	660.9	582.0	557.4	557.4	557.4	557.4
42.5°	6116.1	4883.0	2564.8	1302.1	843.4	651.1	562.3	532.7	537.6	537.6	542.6
45°	6515.6	5134.5	2559.9	1277.5	838.5	641.2	542.6	508.0	513.0	508.0	508.0
47.5°	6920.0	5425.5	2574.7	1262.7	833.6	631.3	527.8	483.4	483.4	478.4	478.4
50°	7344.2	5691.9	2584.5	1247.9	823.7	611.6	503.1	463.6	453.8	443.9	448.8
52.5°	7743.7	5938.5	2589.5	1223.2	794.1	582.0	483.4	439.0	424.2	409.4	414.3
55°	8143.2	6175.2	2599.3	1193.6	754.6	552.4	458.7	414.3	394.6	374.9	374.9
57.5°	8503.3	6382.4	2574.7	1119.6	710.3	522.8	434.0	384.7	355.1	335.4	335.4
60°	8749.9	6530.4	2500.7	1011.1	651.1	488.3	409.4	355.1	320.6	305.8	305.8
62.5°	8868.3	6555.0	2367.5	833.6	577.1	453.8	379.8	325.5	295.9	286.1	286.1
65°	8754.8	6446.5	2160.4	626.4	498.2	414.3	350.2	300.9	271.3	246.6	246.6
67.5°	8360.3	6140.7	1874.3	473.5	424.2	374.9	320.6	276.2	241.7	222.0	222.0
70°	7566.2	5504.5	1450.1	379.8	360.1	325.5	291.0	246.6	217.0	192.4	192.4
72.5°	6525.4	4666.0	1021.0	305.8	305.8	276.2	246.6	217.0	187.4	167.7	167.7
75°	5006.3	3452.6	685.6	246.6	251.5	231.8	202.2	177.6	157.8	143.0	143.0
77.5°	2732.5	1706.6	419.2	182.5	187.4	177.6	157.8	143.0	133.2	118.4	118.4
80°	1326.8	749.7	241.7	128.2	133.2	128.2	118.4	103.6	103.6	93.7	93.7
82.5°	557.4	281.1	128.2	88.8	88.8	78.9	74.0	74.0	74.0	69.1	69.1
85°	138.1	54.3	54.3	49.3	49.3	49.3	44.4	44.4	44.4	34.5	39.5
87.5°	19.7	19.7	19.7	19.7	19.7	19.7	14.8	4.9	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)