

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: P1210505

Luminaire Tested: **ARCH3-140-750-U-T2RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210505
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-1)
Test Lab: INNOVATION CENTER
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-140-750-U-T2RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 5000K, 1110mA LIGHTSQUARE WITH 40 LEDS AND TYPE II ROADWAY
ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20862 lumens
Efficiency: N/A
Efficacy: 146.4 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 142.5
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



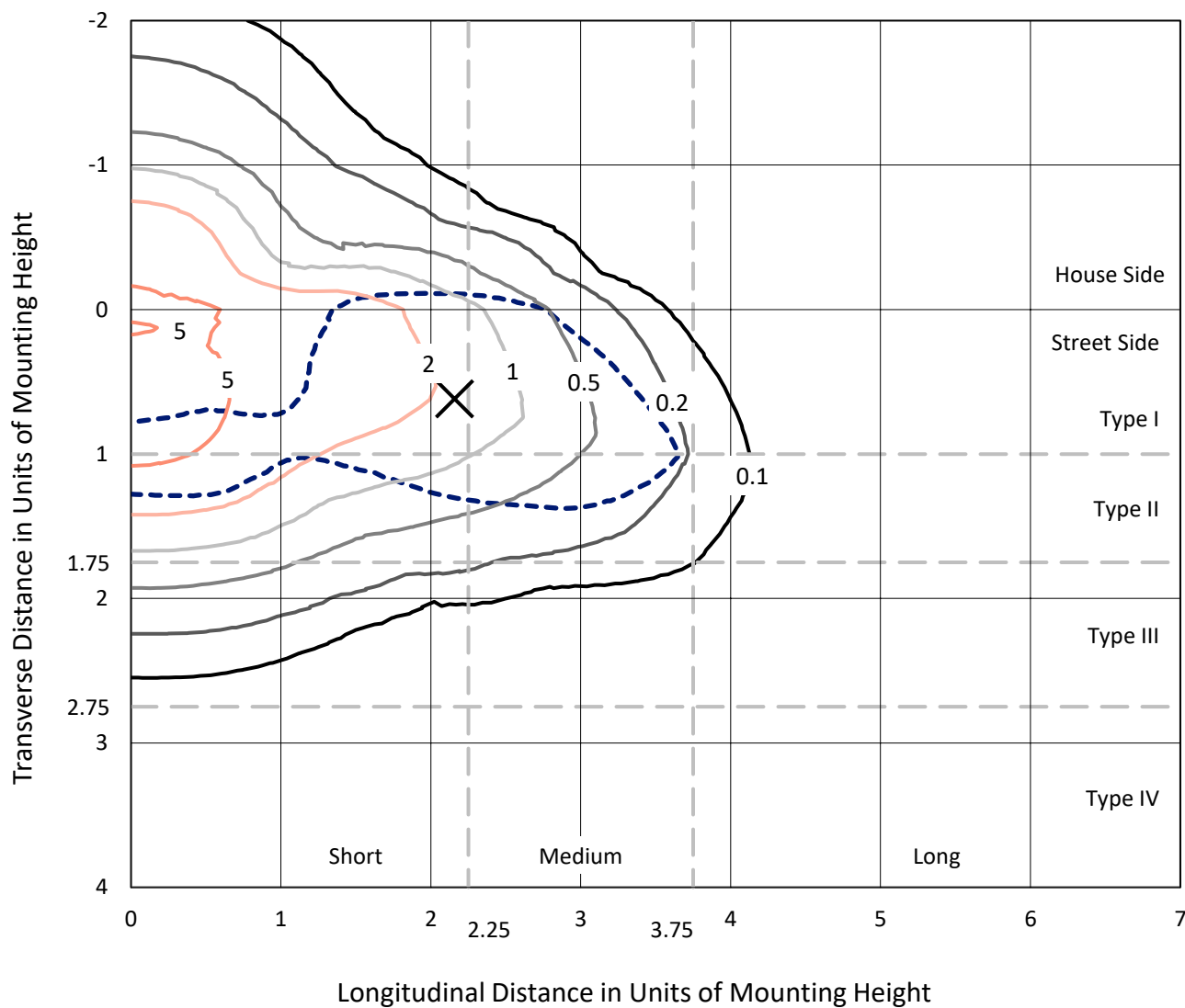
REPORT NUMBER: P1210505

CATALOG NUMBER: ARCH3-140-750-U-T2RE

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

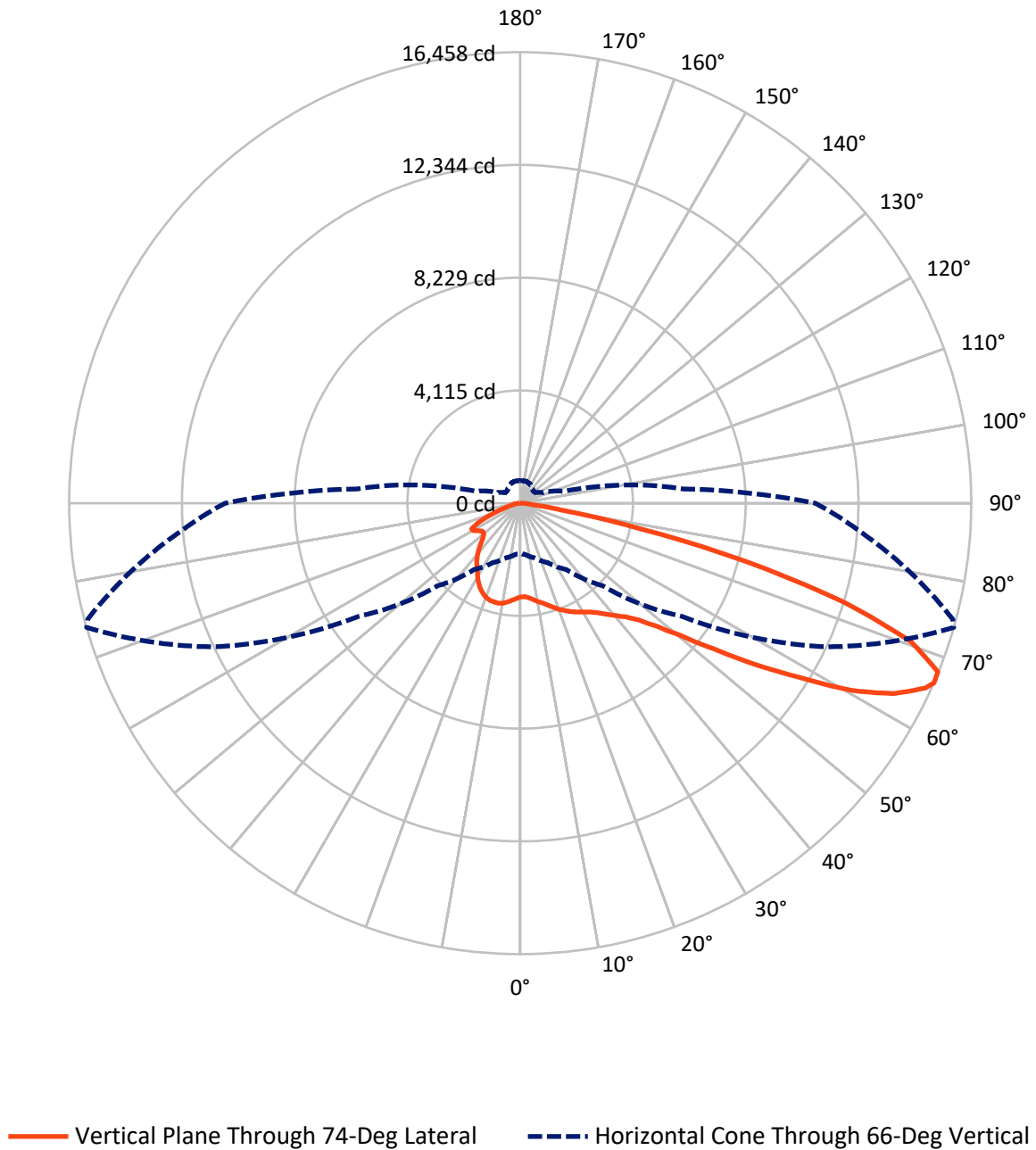
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 fc
Type II - Short - N/A

REPORT NUMBER: P1210505
CATALOG NUMBER: ARCH3-140-750-U-T2RE

Luminous Intensity Polar Plot



REPORT NUMBER: P1210505

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5080.5	0.0	5080.5
	% Fixture	24.4	0.0	24.4
Street Side	Lumens	15781.5	0.0	15781.5
	% Fixture	75.6	0.0	75.6
Total	Lumens	20862.0	0.0	20862.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	326.2	1.6
10°-20°	1003.2	4.8
20°-30°	1882.6	9.0
30°-40°	2895.9	13.9
40°-50°	3895.2	18.7
50°-60°	4606.5	22.1
60°-70°	4261.3	20.4
70°-80°	1792.7	8.6
80°-90°	198.4	1.0
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°	20862.0	100.0
0°-180°	20862.0	100.0

Coefficient of Utilization



REPORT NUMBER: P1210505

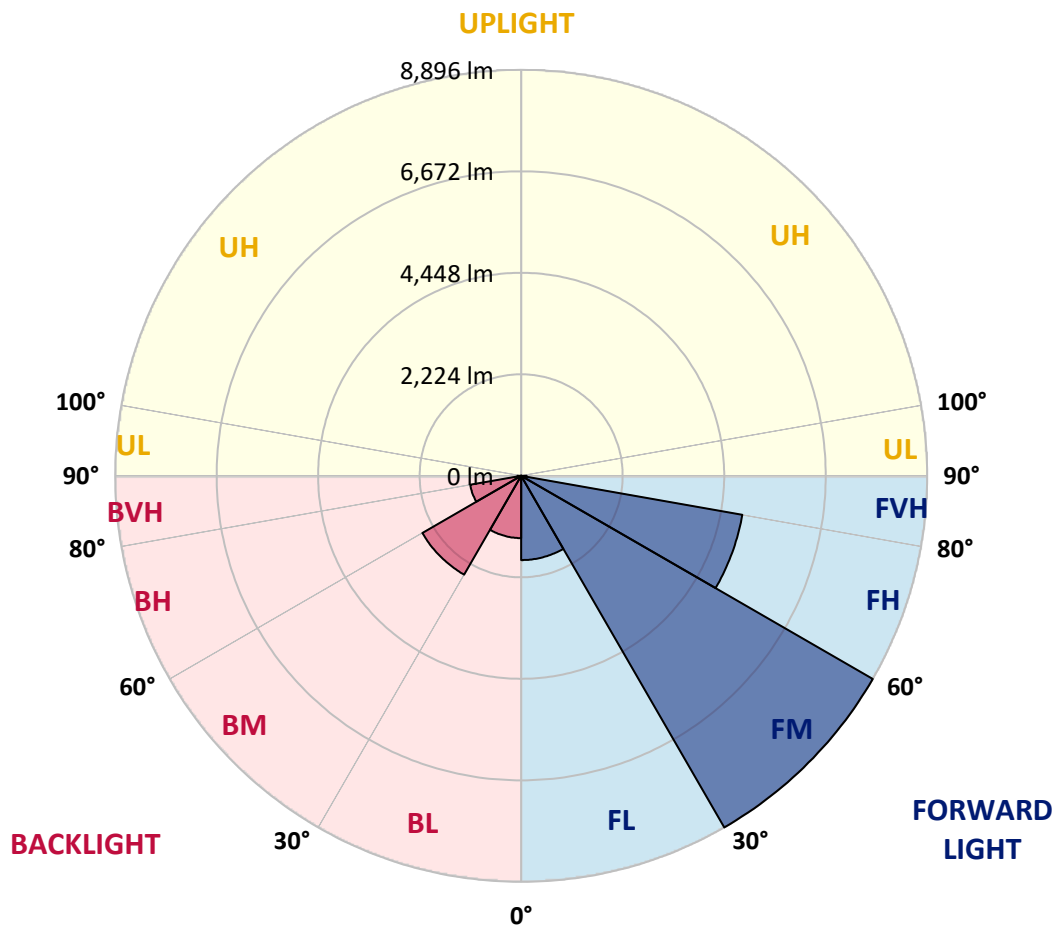
CATALOG NUMBER: ARCH3-140-750-U-T2RE

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1846.5	8.9			
FM	(30°-60°)	8896.5	42.6			
FH	(60°-80°)	4919.8	23.6			G2/5000
FVH	(80°-90°)	118.7	0.6			G2/225
BL	(0°-30°)	1365.5	6.5	B3/2500		
BM	(30°-60°)	2501.1	12.0	B3/5000		
BH	(60°-80°)	1134.1	5.4	B3/2500		G3/2500
BVH	(80°-90°)	79.7	0.4			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: P1210505

CATALOG NUMBER: ARCH3-140-750-U-T2RE

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	3420.0	3420.0	3420.0	3420.0	3420.0	3420.0	3420.0	3420.0	3420.0	3420.0	3420.0
2.5°	3409.2	3403.9	3414.6	3430.7	3438.8	3425.3	3420.0	3417.3	3417.3	3409.2	3422.7
5°	3248.2	3245.5	3269.6	3299.2	3355.5	3395.8	3449.5	3481.7	3471.0	3454.9	3465.6
7.5°	3038.8	3033.4	3062.9	3119.3	3197.2	3285.8	3417.3	3519.3	3559.6	3554.2	3551.5
10°	3119.3	3113.9	3111.3	3095.2	3122.0	3207.9	3344.8	3524.7	3661.6	3664.3	3666.9
12.5°	3398.5	3411.9	3398.5	3347.5	3288.4	3256.2	3336.8	3538.1	3747.5	3763.6	3830.7
15°	3779.7	3766.3	3739.4	3680.4	3589.1	3492.5	3433.4	3599.8	3871.0	3884.4	4032.0
17.5°	4115.2	4126.0	4109.9	4053.5	3946.1	3820.0	3640.1	3707.2	4002.5	4040.1	4246.8
20°	4480.3	4523.3	4501.8	4432.0	4343.4	4155.5	3930.0	3862.9	4147.5	4174.3	4469.6
22.5°	4901.8	4947.4	4907.2	4840.0	4767.6	4536.7	4246.8	4053.5	4268.3	4324.6	4684.3
25°	5406.5	5449.4	5411.8	5307.1	5215.9	4934.0	4587.7	4268.3	4386.4	4448.1	4858.8
27.5°	5806.4	5838.7	5873.6	5811.8	5672.2	5379.6	4942.1	4491.1	4504.5	4568.9	5019.9
30°	6163.5	6244.0	6273.5	6281.6	6163.5	5836.0	5304.5	4721.9	4606.5	4673.6	5181.0
32.5°	6652.0	6772.8	6724.5	6772.8	6703.0	6265.5	5680.3	4960.8	4738.0	4799.8	5334.0
35°	7366.1	7462.7	7336.6	7299.0	7186.2	6700.4	6042.7	5207.8	4912.5	4979.6	5478.9
37.5°	8133.9	8243.9	8061.4	7911.0	7696.3	7129.9	6354.1	5532.6	5154.1	5207.8	5613.2
40°	8805.0	8896.2	8737.8	8539.2	8179.5	7508.4	6622.5	5760.8	5395.7	5462.8	5768.9
42.5°	9425.1	9484.1	9307.0	9116.4	8635.8	7849.3	6912.4	6002.4	5677.6	5742.0	5895.0
45°	10053.2	10098.9	9851.9	9580.8	9017.0	8160.7	7231.9	6340.6	6091.0	6176.9	6099.0
47.5°	10166.0	10179.4	10136.4	9953.9	9317.7	8458.7	7626.5	6794.3	6721.8	6815.8	6450.7
50°	9384.8	9505.6	9771.4	9951.2	9438.5	8708.3	8021.1	7443.9	7591.6	7712.4	7180.9
52.5°	7868.1	7983.5	8598.3	9280.1	9148.6	8764.7	8445.2	8268.1	8818.4	8963.3	8174.1
55°	6268.2	6370.2	7019.8	8002.3	8211.7	8507.0	8898.9	9320.4	10383.4	10480.1	9264.0
57.5°	5162.2	5218.5	5683.0	6627.9	6963.4	7682.9	9143.2	10571.3	11975.3	12122.9	10211.6
60°	4233.4	4295.1	4641.4	5419.9	5865.5	6504.4	8949.9	11806.2	13875.9	13875.9	11427.7
62.5°	3186.4	3240.1	3562.3	4171.6	4920.6	5505.8	8332.5	12624.9	15309.4	15244.9	12308.2
65°	2187.8	2230.8	2464.3	2869.7	3543.5	4692.4	7489.6	12635.7	16259.6	16173.7	12684.0
66°	1836.2	1873.7	2072.4	2399.9	2966.3	4257.5	7191.6	12407.5	16458.3	16337.5	12525.6
67.5°	1449.6	1476.4	1608.0	1801.3	2174.4	3446.8	6721.8	11760.5	16439.5	16367.0	12122.9
70°	1036.2	1055.0	1151.6	1191.9	1285.8	1994.5	5339.3	10300.2	15121.4	15142.9	10539.1
72.5°	802.6	832.2	891.2	899.3	877.8	1060.4	3240.1	8592.9	12369.9	12361.8	7822.5
75°	646.9	663.1	692.6	708.7	703.3	684.5	1371.7	6410.4	8515.0	8614.4	4381.0
77.5°	510.0	507.4	534.2	555.7	571.8	536.9	628.2	3758.2	4464.2	4338.1	1645.6
80°	375.8	375.8	413.4	421.5	445.6	451.0	418.8	1449.6	1532.8	1393.2	426.8
82.5°	247.0	247.0	287.2	292.6	316.8	351.7	303.3	434.9	424.1	402.7	193.3
85°	134.2	128.9	142.3	161.1	174.5	206.7	182.5	217.4	222.8	220.1	128.9
87.5°	26.8	24.2	37.6	43.0	48.3	64.4	59.1	88.6	123.5	120.8	56.4
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: P1210505

CATALOG NUMBER: ARCH3-140-750-U-T2RE

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3420.0	3420.0	3420.0	3420.0	3420.0	3420.0	3420.0	3420.0	3420.0	3420.0	3420.0
2.5°	3441.5	3438.8	3468.3	3503.2	3543.5	3567.6	3578.4	3597.1	3583.7	3589.1	3605.2
5°	3492.5	3500.5	3543.5	3589.1	3607.9	3594.5	3564.9	3554.2	3530.0	3524.7	3519.3
7.5°	3567.6	3581.0	3624.0	3634.7	3578.4	3484.4	3417.3	3379.7	3339.4	3328.7	3323.3
10°	3691.1	3699.2	3709.9	3599.8	3460.2	3334.1	3250.9	3216.0	3189.1	3167.6	3173.0
12.5°	3846.8	3841.4	3758.2	3530.0	3331.4	3202.5	3146.2	3124.7	3105.9	3092.5	3089.8
15°	4042.8	4005.2	3766.3	3433.4	3210.6	3103.2	3062.9	3054.9	3033.4	3033.4	3030.7
17.5°	4241.4	4144.8	3760.9	3331.4	3095.2	3036.1	3011.9	3006.6	3001.2	2998.5	3006.6
20°	4440.1	4268.3	3717.9	3205.2	3014.6	2979.7	2974.4	2977.0	2971.7	2979.7	2974.4
22.5°	4614.6	4348.8	3637.4	3071.0	2958.3	2955.6	2942.1	2947.5	2966.3	2969.0	2977.0
25°	4748.8	4378.3	3519.3	2947.5	2918.0	2912.6	2928.7	2950.2	2966.3	2969.0	2982.4
27.5°	4858.8	4362.2	3371.7	2850.9	2848.2	2877.7	2926.0	2934.1	2936.8	2936.8	2926.0
30°	4942.1	4327.3	3183.7	2743.5	2756.9	2829.4	2875.0	2875.0	2853.6	2848.2	2864.3
32.5°	4960.8	4281.7	2979.7	2633.4	2654.9	2740.8	2797.2	2778.4	2754.2	2754.2	2765.0
35°	4977.0	4219.9	2816.0	2483.1	2515.3	2617.3	2671.0	2633.4	2606.6	2598.5	2595.9
37.5°	4971.6	4195.8	2668.3	2292.5	2335.5	2434.8	2469.7	2434.8	2394.5	2375.7	2399.9
40°	4977.0	4179.7	2483.1	2083.1	2126.1	2185.1	2230.8	2203.9	2166.3	2118.0	2142.2
42.5°	5009.2	4201.1	2279.1	1879.1	1879.1	1911.3	1989.2	1970.4	1879.1	1860.3	1881.8
45°	5181.0	4316.6	2075.1	1675.1	1645.6	1667.0	1747.6	1667.0	1610.7	1610.7	1629.5
47.5°	5597.1	4531.3	1895.2	1495.2	1425.4	1468.4	1489.9	1414.7	1371.7	1361.0	1379.8
50°	6445.3	4960.8	1787.8	1347.6	1261.7	1293.9	1280.5	1277.8	1234.8	1240.2	1250.9
52.5°	7733.9	5798.4	1755.6	1275.1	1167.7	1175.8	1162.4	1167.7	1159.7	1186.5	1194.6
55°	9137.8	6681.6	1795.9	1285.8	1103.3	1046.9	1052.3	1079.1	1111.4	1154.3	1162.4
57.5°	10187.4	7124.5	1900.6	1358.3	1022.8	936.9	950.3	1001.3	1063.0	1097.9	1116.7
60°	10968.6	7070.8	2053.6	1377.1	926.1	837.5	861.7	936.9	990.6	1020.1	1038.9
62.5°	11223.6	6735.3	2091.2	1240.2	800.0	743.6	802.6	880.5	904.7	936.9	950.3
65°	11014.3	6260.1	1817.4	1006.7	703.3	673.8	759.7	818.8	851.0	867.1	869.8
66°	10767.3	5975.6	1669.7	915.4	668.4	652.3	743.6	791.9	824.1	821.4	824.1
67.5°	10225.0	5379.6	1430.8	786.5	617.4	620.1	716.7	749.0	759.7	751.6	751.6
70°	8380.8	3787.7	1025.5	595.9	542.3	579.8	644.3	652.3	676.5	665.7	665.7
72.5°	5167.5	1860.3	687.2	456.4	483.2	542.3	539.6	566.4	622.8	638.9	649.6
75°	2539.5	754.3	453.7	386.6	432.2	453.7	448.3	515.4	595.9	665.7	689.9
77.5°	963.7	375.8	316.8	338.2	349.0	340.9	357.0	467.1	595.9	722.1	746.3
80°	298.0	260.4	249.7	279.2	263.1	249.7	268.4	386.6	504.7	547.6	547.6
82.5°	179.9	204.0	193.3	190.6	177.2	179.9	193.3	276.5	389.2	408.0	408.0
85°	126.2	134.2	110.1	104.7	102.0	99.3	99.3	161.1	230.9	228.2	236.2
87.5°	48.3	53.7	40.3	40.3	37.6	26.8	21.5	26.8	26.8	18.8	13.4
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)