

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: P1211512

Luminaire Tested: **ARCH4-300-727-U-T2RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211512
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-3)
Test Lab: INNOVATION CENTER
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-300-727-U-T2RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 1155mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II
ROADWAY ILLUMINANCE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28052 lumens
Efficiency: N/A
Efficacy: 93.8 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 299.2
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

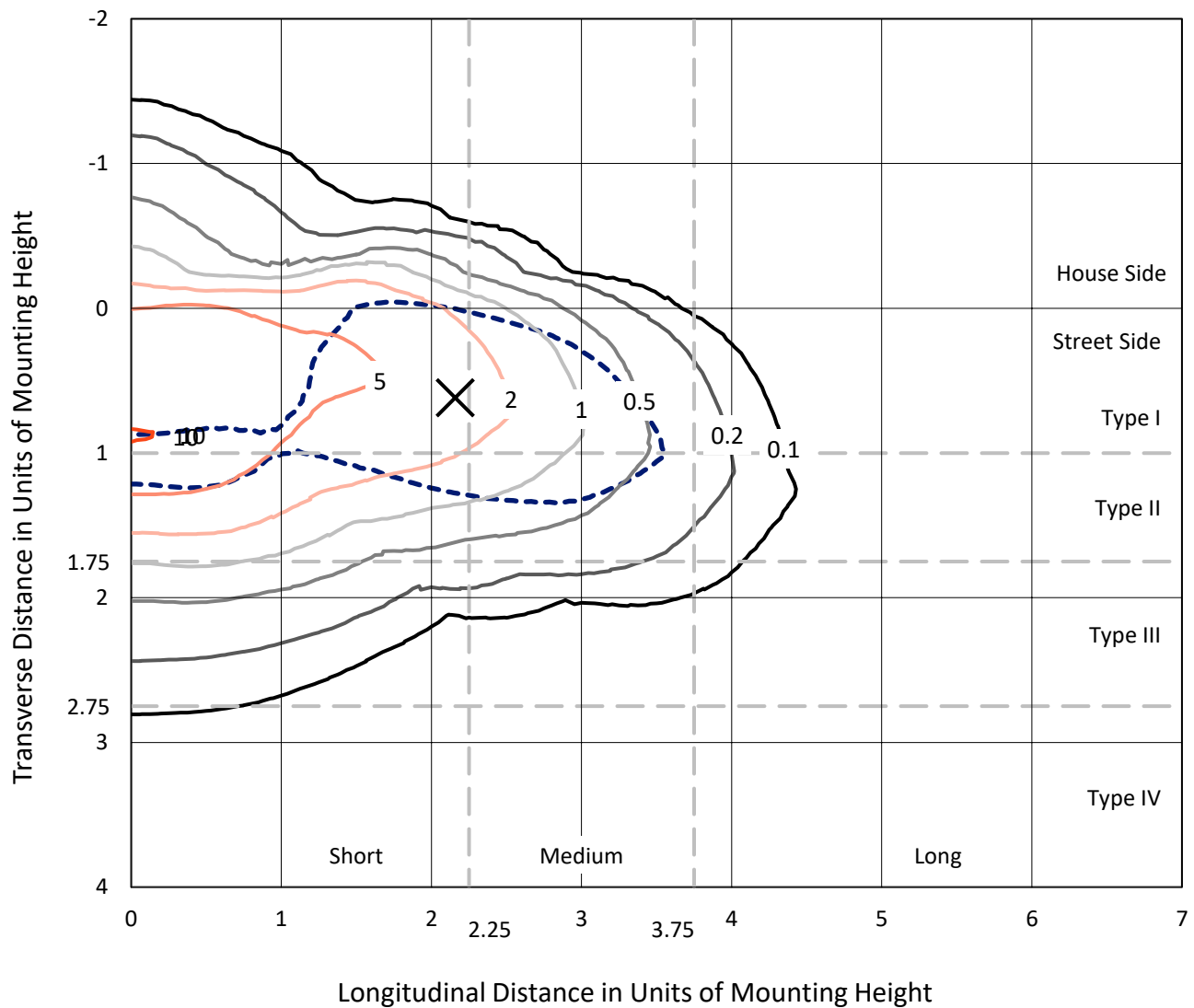


REPORT NUMBER: P1211512

CATALOG NUMBER: ARCH4-300-727-U-T2RE-HSS

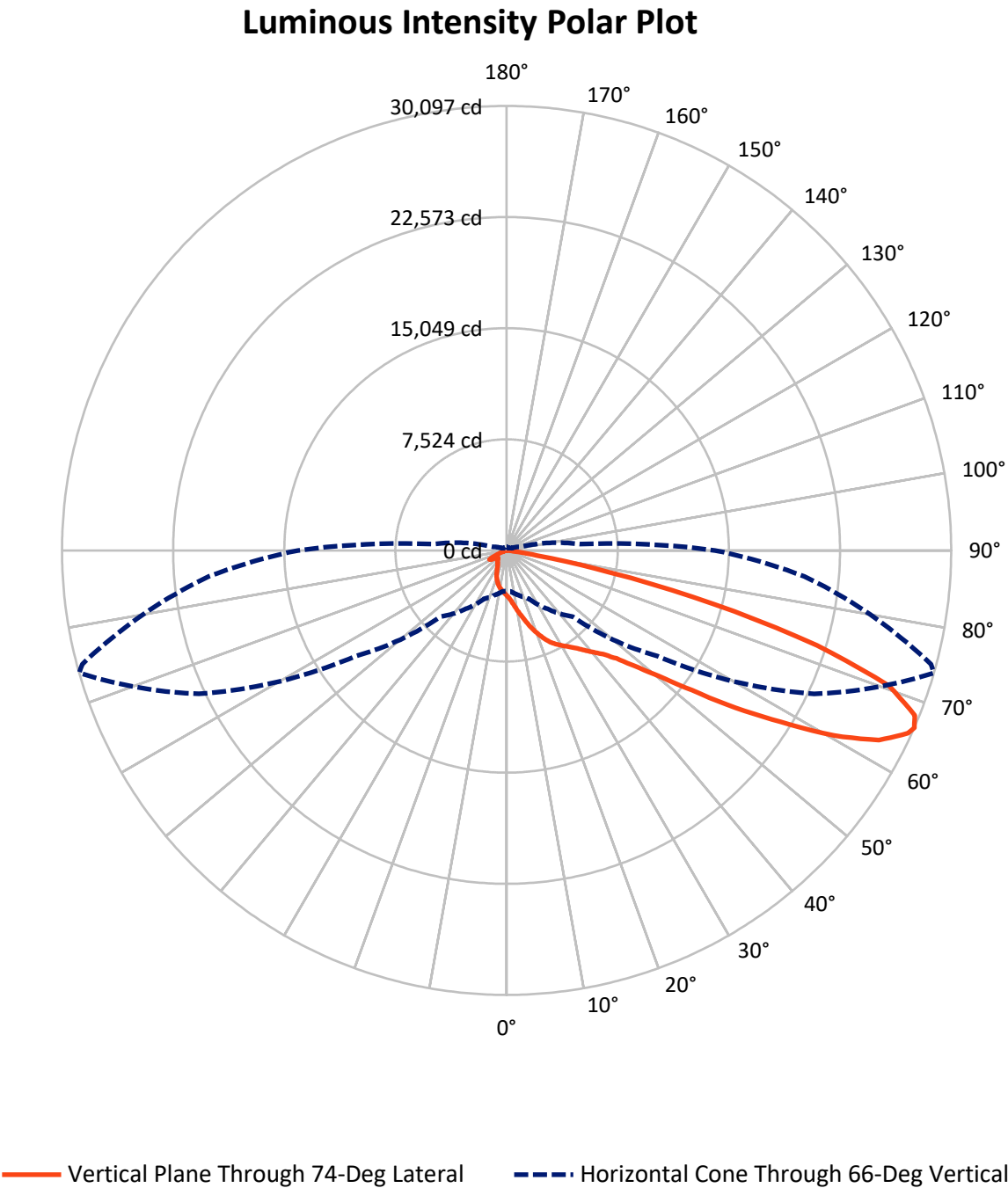
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.2 fc
Type II - Short - N/A

REPORT NUMBER: P1211512
CATALOG NUMBER: ARCH4-300-727-U-T2RE-HSS



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CATALOG NUMBER: ARCH4-300-727-U-T2RE-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2750.0	0.0	2750.0
	% Fixture	9.8	0.0	9.8
Street Side	Lumens	25302.0	0.0	25302.0
	% Fixture	90.2	0.0	90.2
Total	Lumens	28052.0	0.0	28052.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	298.9	1.1
10°-20°	958.2	3.4
20°-30°	1828.6	6.5
30°-40°	3205.1	11.4
40°-50°	5495.9	19.6
50°-60°	7147.8	25.5
60°-70°	6470.6	23.1
70°-80°	2496.7	8.9
80°-90°	150.2	0.5
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°	28052.0	100.0
0°-180°	28052.0	100.0

Coefficient of Utilization



REPORT NUMBER: P1211512

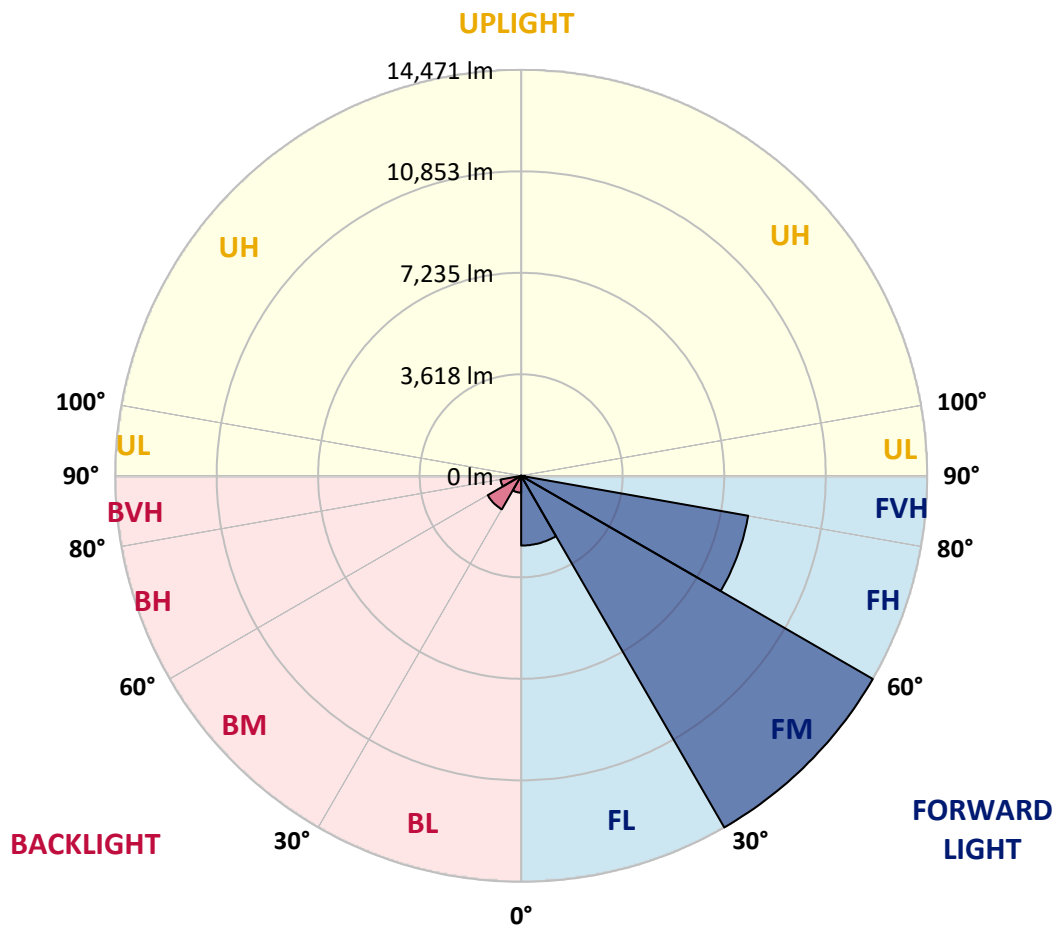
CATALOG NUMBER: ARCH4-300-727-U-T2RE-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2485.8	8.9			
FM	(30°-60°)	14470.6	51.6			
FH	(60°-80°)	8215.5	29.3			G4/12000
FVH	(80°-90°)	130.1	0.5			G2/225
BL	(0°-30°)	599.8	2.1	B2/1000		
BM	(30°-60°)	1378.2	4.9	B2/2500		
BH	(60°-80°)	751.8	2.7	B2/1000		G2/1000
BVH	(80°-90°)	20.1	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type II Short



REPORT NUMBER: P1211512

CATALOG NUMBER: ARCH4-300-727-U-T2RE-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	3062.1	3062.1	3062.1	3062.1	3062.1	3062.1	3062.1	3062.1	3062.1	3062.1	3062.1
2.5°	3676.6	3646.3	3590.9	3585.9	3540.6	3485.2	3389.5	3288.8	3218.2	3208.2	3122.6
5°	4401.8	4386.7	4331.3	4296.0	4210.4	4079.5	3857.9	3636.3	3449.9	3429.8	3238.4
7.5°	4593.2	4603.3	4613.3	4648.6	4618.4	4557.9	4391.7	4079.5	3787.4	3742.0	3409.6
10°	4623.4	4613.3	4613.3	4658.7	4744.3	4829.9	4809.7	4542.8	4165.1	4109.7	3646.3
12.5°	4950.8	4965.9	4930.6	4910.5	4895.4	4940.7	5091.8	4975.9	4563.0	4517.6	3933.4
15°	5373.8	5368.8	5318.4	5318.4	5273.1	5197.5	5293.2	5378.9	5041.4	4986.0	4260.8
17.5°	5681.0	5701.2	5696.1	5726.4	5711.3	5610.5	5560.2	5736.4	5535.0	5464.5	4633.5
20°	5927.8	5983.2	6003.4	6099.1	6144.4	6073.9	5942.9	6053.7	6008.4	5942.9	5011.2
22.5°	6189.7	6235.0	6270.3	6436.5	6562.4	6547.3	6381.1	6355.9	6466.7	6406.3	5383.9
25°	6451.6	6471.7	6577.5	6779.0	6980.4	7030.8	6859.5	6663.1	6879.7	6824.3	5716.3
27.5°	6738.7	6748.7	6874.7	7121.4	7403.5	7509.2	7373.3	7010.6	7197.0	7197.0	6018.5
30°	7262.5	7363.2	7413.5	7635.2	7881.9	8028.0	7866.8	7378.3	7479.0	7524.3	6335.8
32.5°	8390.6	8405.7	8390.6	8486.3	8536.7	8622.3	8435.9	7791.3	7766.1	7816.5	6648.0
35°	10113.0	10052.6	9891.4	9750.4	9458.3	9297.2	9055.4	8320.1	8118.6	8189.2	6955.2
37.5°	12203.1	12117.5	11749.9	11316.7	10692.2	10047.6	9745.4	8964.8	8566.9	8657.5	7287.6
40°	14197.6	14142.2	13704.0	13170.1	12102.4	10999.5	10359.8	9508.7	9065.5	9100.7	7625.1
42.5°	15839.4	15829.3	15461.7	14902.6	13532.7	12026.9	11085.1	10042.5	9589.3	9644.7	7977.6
45°	17083.4	16987.7	16715.7	16312.8	14917.8	13094.6	11961.4	10853.4	10430.3	10495.8	8506.4
47.5°	17083.4	17098.5	17274.8	17234.5	15884.7	14096.8	12918.3	11875.8	11674.3	11734.8	9377.7
50°	15693.4	15834.4	16620.0	17279.8	16388.4	14877.5	13950.8	13155.0	13361.5	13452.2	10898.7
52.5°	12943.5	13180.2	14545.1	16050.9	16015.7	15270.3	15018.5	14781.8	15708.5	15869.6	13144.9
55°	9836.0	9992.2	11770.0	13749.3	14394.0	14948.0	15950.2	16846.7	18815.9	18780.7	15426.4
57.5°	7348.1	7494.1	9025.2	11221.1	12072.2	13552.9	16428.7	19208.7	21898.2	22034.2	17566.9
60°	5404.0	5514.8	6819.3	8622.3	9851.2	11417.5	16237.3	21535.6	25448.8	25292.7	19455.5
62.5°	3998.9	4059.3	5001.1	6174.6	7806.4	9302.2	15033.6	23127.1	28284.3	27967.0	20508.1
65°	3092.3	3112.5	3601.0	4225.5	5676.0	7232.2	13240.6	23368.8	29850.6	29513.2	20488.0
66°	2754.9	2770.0	3127.6	3611.1	4829.9	6330.7	12455.0	22981.0	30097.4	29739.8	20236.2
67.5°	2311.7	2301.6	2513.2	2830.4	3626.2	4885.3	11059.9	21847.8	29805.3	29624.0	19430.3
70°	1712.4	1717.4	1823.2	1898.7	2120.3	2704.5	7987.7	18951.9	27468.4	27458.3	17219.4
72.5°	1269.2	1284.3	1364.9	1380.0	1324.6	1465.6	4603.3	15073.9	21973.7	21978.8	12873.0
75°	951.9	977.1	1002.2	1012.3	961.9	926.7	2080.0	10143.3	14454.4	14348.6	7287.6
77.5°	725.2	735.3	755.5	740.3	730.3	639.6	866.3	4945.7	7136.5	6502.0	2362.1
80°	528.8	528.8	549.0	528.8	523.8	458.3	473.4	1586.5	2095.1	1742.6	508.7
82.5°	332.4	327.4	342.5	337.4	327.4	292.1	277.0	443.2	483.5	433.1	246.8
85°	186.3	181.3	176.3	171.2	156.1	130.9	151.1	166.2	221.6	226.6	176.3
87.5°	65.5	65.5	60.4	55.4	45.3	45.3	55.4	55.4	80.6	80.6	90.7
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: P1211512

CATALOG NUMBER: ARCH4-300-727-U-T2RE-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3062.1	3062.1	3062.1	3062.1	3062.1	3062.1	3062.1	3062.1	3062.1	3062.1	3062.1
2.5°	3082.3	3026.9	2946.3	2840.5	2765.0	2689.4	2608.8	2563.5	2498.0	2482.9	2503.1
5°	3137.7	3036.9	2835.5	2613.9	2422.5	2251.3	2090.1	1994.4	1898.7	1863.5	1878.6
7.5°	3253.5	3082.3	2739.8	2382.2	2064.9	1808.1	1616.7	1505.9	1420.3	1385.0	1395.1
10°	3424.7	3162.8	2649.1	2120.3	1712.4	1440.4	1279.2	1208.7	1158.4	1138.2	1143.3
12.5°	3631.2	3278.7	2533.3	1858.4	1410.2	1173.5	1097.9	1082.8	1072.7	1062.7	1067.7
15°	3862.9	3379.4	2397.3	1601.6	1173.5	1042.5	1017.3	1012.3	1007.3	1007.3	1007.3
17.5°	4104.6	3470.1	2246.2	1359.8	1022.4	961.9	946.8	946.8	946.8	951.9	951.9
20°	4331.3	3540.6	2070.0	1143.3	936.8	886.4	876.3	876.3	881.4	886.4	886.4
22.5°	4552.9	3570.8	1863.5	992.2	866.3	820.9	805.8	805.8	805.8	810.9	810.9
25°	4744.3	3570.8	1657.0	896.5	805.8	760.5	740.3	735.3	740.3	740.3	740.3
27.5°	4905.4	3555.7	1455.5	831.0	745.4	700.1	679.9	674.9	684.9	690.0	690.0
30°	5076.7	3535.5	1294.3	770.6	695.0	649.7	629.5	629.5	644.7	664.8	664.8
32.5°	5242.9	3550.6	1168.4	720.2	644.7	609.4	589.3	594.3	624.5	654.7	654.7
35°	5419.1	3580.9	1092.9	684.9	609.4	574.1	559.0	574.1	604.4	634.6	634.6
37.5°	5595.4	3616.1	1047.6	654.7	579.2	543.9	533.9	554.0	589.3	619.5	624.5
40°	5781.8	3646.3	997.2	624.5	559.0	518.7	513.7	533.9	579.2	609.4	614.4
42.5°	6013.4	3706.8	936.8	599.3	538.9	488.5	493.6	508.7	554.0	599.3	604.4
45°	6466.7	3898.2	876.3	574.1	513.7	473.4	463.3	473.4	523.8	574.1	584.2
47.5°	7317.9	4331.3	810.9	549.0	488.5	463.3	423.1	433.1	478.5	533.9	538.9
50°	8949.6	5252.9	775.6	523.8	468.4	428.1	382.8	382.8	418.0	468.4	468.4
52.5°	11493.0	6904.9	795.7	503.6	443.2	392.8	347.5	342.5	362.6	397.9	397.9
55°	14237.8	8718.0	871.3	483.5	413.0	372.7	322.3	297.1	312.3	332.4	332.4
57.5°	16413.6	9629.6	1077.8	473.4	377.7	357.6	292.1	256.9	272.0	292.1	292.1
60°	17370.5	9095.7	1309.5	483.5	352.5	332.4	261.9	226.6	251.8	272.0	277.0
62.5°	16594.9	7489.1	1405.1	458.3	317.3	297.1	256.9	211.5	241.7	256.9	261.9
65°	14917.8	5691.1	1097.9	397.9	292.1	256.9	231.7	201.5	226.6	241.7	241.7
66°	14122.0	4960.8	936.8	367.7	282.0	241.7	221.6	201.5	221.6	231.7	236.7
67.5°	12888.1	3913.3	695.0	322.3	261.9	221.6	206.5	191.4	211.5	221.6	221.6
70°	10077.8	2331.8	418.0	251.8	226.6	196.4	186.3	176.3	191.4	196.4	196.4
72.5°	6310.6	1108.0	266.9	186.3	191.4	186.3	156.1	166.2	171.2	176.3	176.3
75°	3057.1	438.2	181.3	136.0	156.1	176.3	125.9	146.1	151.1	161.2	156.1
77.5°	851.1	211.5	115.8	100.7	136.0	136.0	95.7	115.8	136.0	171.2	156.1
80°	246.8	136.0	75.5	75.5	95.7	95.7	65.5	80.6	90.7	100.7	105.8
82.5°	171.2	90.7	50.4	55.4	55.4	60.4	40.3	40.3	50.4	50.4	55.4
85°	136.0	40.3	30.2	35.3	25.2	30.2	20.1	20.1	25.2	20.1	20.1
87.5°	55.4	20.1	20.1	20.1	15.1	15.1	10.1	5.0	5.0	5.0	5.0
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)