

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: P1211481

Luminaire Tested: **ARCH4-290-727-U-T2RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211481
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: ARCH4-290-727-U-T2RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 1120mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II
ROADWAY ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38286 lumens
Efficiency: N/A
Efficacy: 132.2 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

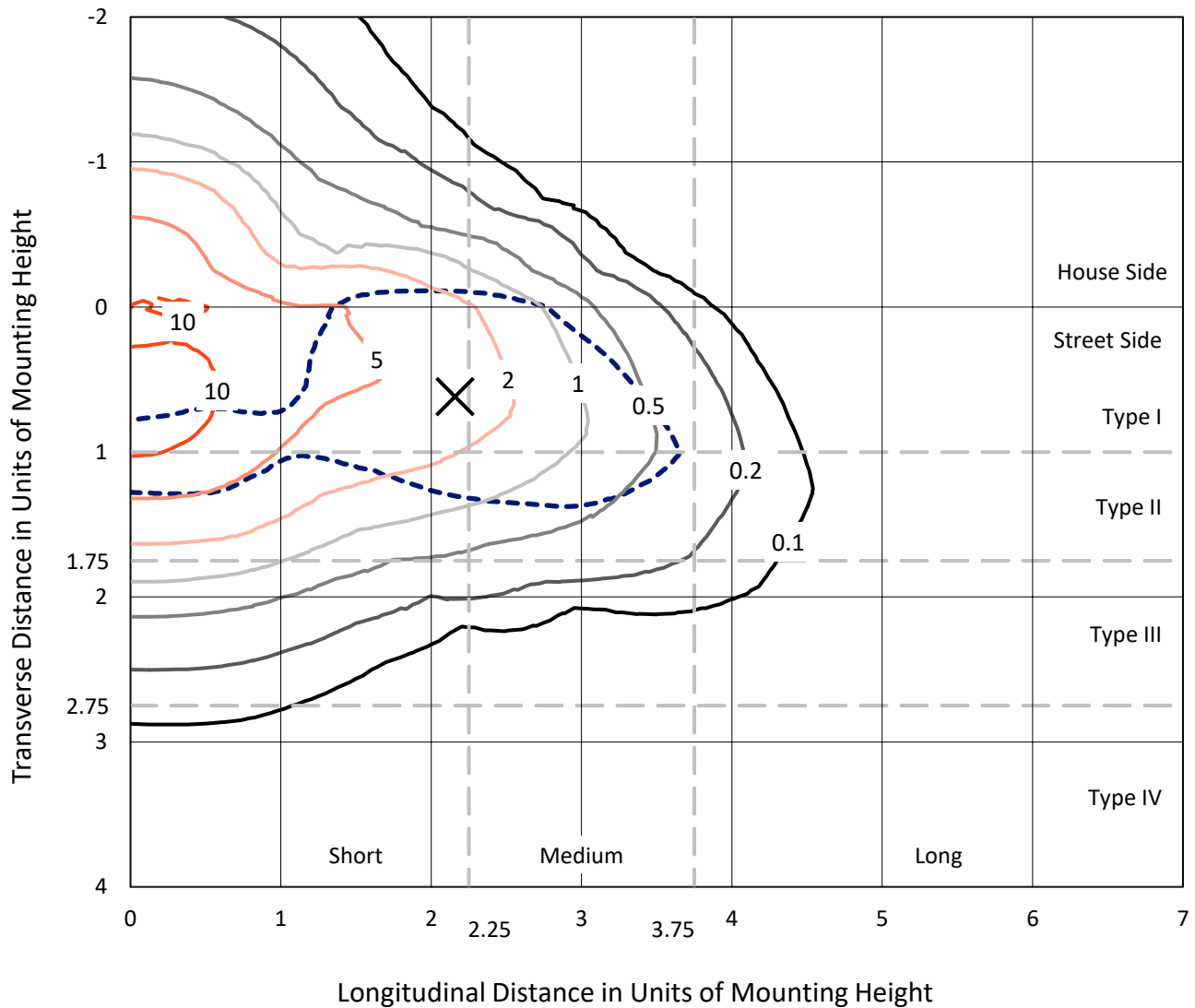
Input Watts (W): 289.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P1211481
 CATALOG NUMBER: ARCH4-290-727-U-T2RE

Iso-Footcandle Lines of Horizontal Illumination

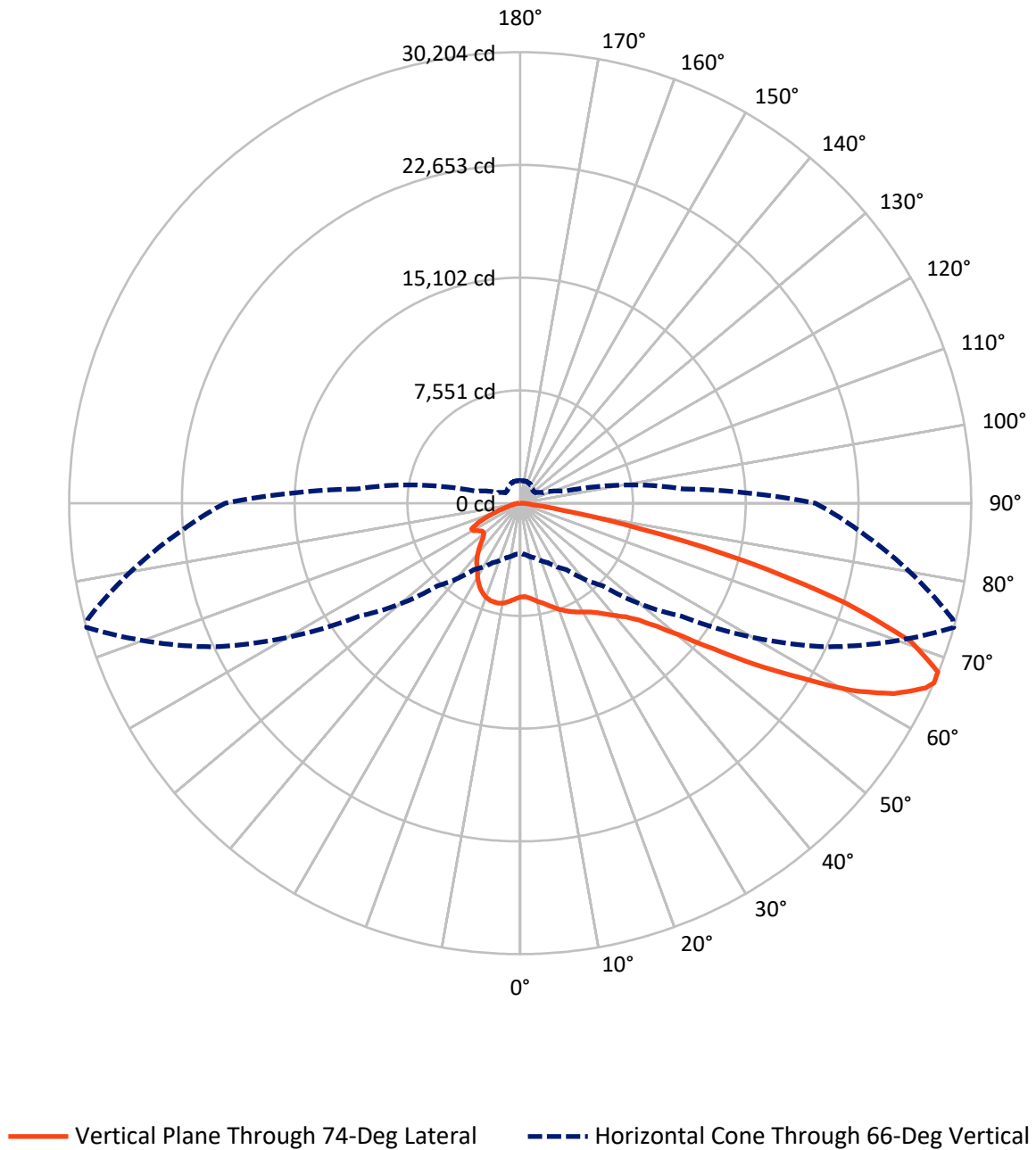
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12 fc
 Type II - Short - N/A

REPORT NUMBER: P1211481
CATALOG NUMBER: ARCH4-290-727-U-T2RE

Luminous Intensity Polar Plot



REPORT NUMBER: P1211481

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9323.7	0.0	9323.7
	% Fixture	24.4	0.0	24.4
Street Side	Lumens	28962.3	0.0	28962.3
	% Fixture	75.6	0.0	75.6
Total	Lumens	38286.0	0.0	38286.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	598.7	1.6
10°-20°	1841.1	4.8
20°-30°	3454.9	9.0
30°-40°	5314.5	13.9
40°-50°	7148.5	18.7
50°-60°	8453.9	22.1
60°-70°	7820.3	20.4
70°-80°	3290.0	8.6
80°-90°	364.1	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°	38286.0	100.0
0°-180°	38286.0	100.0

Coefficient of Utilization



REPORT NUMBER: P1211481

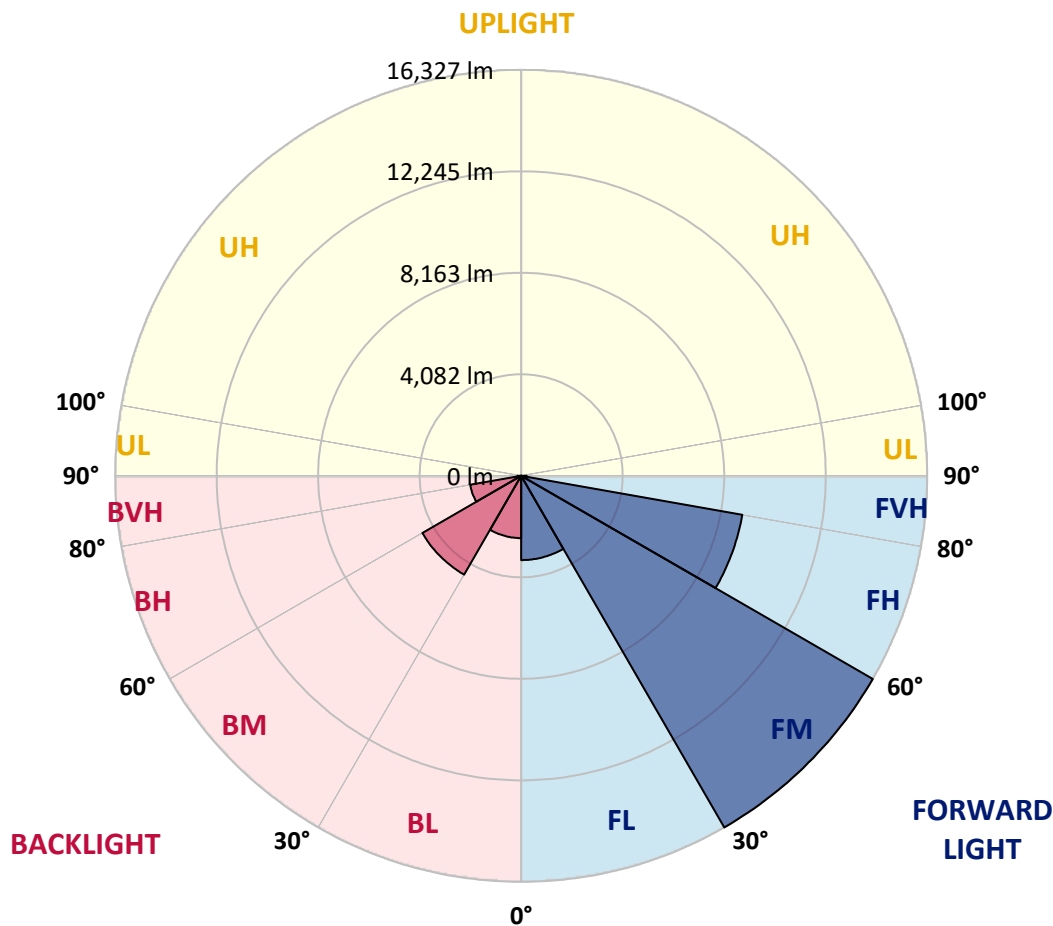
CATALOG NUMBER: ARCH4-290-727-U-T2RE

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3388.8	8.9			
FM	(30°-60°)	16326.8	42.6			
FH	(60°-80°)	9028.9	23.6			G4/12000
FVH	(80°-90°)	217.8	0.6			G2/225
BL	(0°-30°)	2506.0	6.5	B4/5000		
BM	(30°-60°)	4590.1	12.0	B3/5000		
BH	(60°-80°)	2081.4	5.4	B3/2500		G3/2500
BVH	(80°-90°)	146.2	0.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type II Short



REPORT NUMBER: P1211481

CATALOG NUMBER: ARCH4-290-727-U-T2RE

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	6276.3	6276.3	6276.3	6276.3	6276.3	6276.3	6276.3	6276.3	6276.3	6276.3	6276.3
2.5°	6256.6	6246.8	6266.5	6296.1	6310.8	6286.2	6276.3	6271.4	6271.4	6256.6	6281.3
5°	5961.1	5956.1	6000.5	6054.7	6158.1	6232.0	6330.5	6389.7	6370.0	6340.4	6360.1
7.5°	5576.8	5566.9	5621.1	5724.6	5867.4	6030.0	6271.4	6458.6	6532.5	6522.7	6517.7
10°	5724.6	5714.7	5709.8	5680.2	5729.5	5887.2	6138.4	6468.5	6719.7	6724.7	6729.6
12.5°	6236.9	6261.6	6236.9	6143.3	6035.0	5975.8	6123.6	6493.1	6877.4	6906.9	7030.1
15°	6936.5	6911.9	6862.6	6754.2	6586.7	6409.4	6301.0	6606.4	7104.0	7128.6	7399.6
17.5°	7552.3	7572.0	7542.5	7439.0	7241.9	7010.4	6680.3	6803.5	7345.4	7414.4	7793.7
20°	8222.3	8301.1	8261.7	8133.6	7971.1	7626.2	7212.4	7089.2	7611.4	7660.7	8202.6
22.5°	8995.8	9079.5	9005.6	8882.5	8749.4	8325.8	7793.7	7439.0	7833.1	7936.6	8596.7
25°	9922.0	10000.8	9931.8	9739.7	9572.2	9054.9	8419.4	7833.1	8049.9	8163.2	8916.9
27.5°	10656.0	10715.1	10779.2	10665.9	10409.7	9872.7	9069.7	8242.0	8266.7	8384.9	9212.5
30°	11311.2	11459.0	11513.2	11528.0	11311.2	10710.2	9734.7	8665.7	8453.9	8577.0	9508.1
32.5°	12207.8	12429.5	12340.9	12429.5	12301.4	11498.4	10424.5	9104.2	8695.3	8808.6	9788.9
35°	13518.3	13695.6	13464.1	13395.1	13188.2	12296.5	11089.5	9557.4	9015.5	9138.6	10055.0
37.5°	14927.3	15129.3	14794.2	14518.4	14124.2	13084.8	11661.0	10153.5	9458.9	9557.4	10301.3
40°	16158.9	16326.4	16035.7	15671.2	15011.0	13779.4	12153.7	10572.2	9902.2	10025.4	10587.0
42.5°	17296.9	17405.3	17080.1	16730.4	15848.5	14405.1	12685.7	11015.6	10419.5	10537.8	10818.6
45°	18449.7	18533.5	18080.2	17582.6	16548.1	14976.5	13272.0	11636.4	11178.2	11335.9	11193.0
47.5°	18656.6	18681.3	18602.4	18267.4	17099.8	15523.4	13996.2	12468.9	12335.9	12508.4	11838.4
50°	17223.0	17444.7	17932.4	18262.5	17321.5	15981.5	14720.4	13661.2	13932.1	14153.8	13178.4
52.5°	14439.5	14651.4	15779.5	17030.9	16789.5	16085.0	15498.7	15173.6	16183.5	16449.6	15001.2
55°	11503.4	11690.6	12882.8	14685.9	15070.1	15612.0	16331.3	17104.8	19055.7	19233.0	17001.3
57.5°	9473.6	9577.1	10429.4	12163.5	12779.3	14099.6	16779.6	19400.5	21977.1	22248.0	18740.4
60°	7769.1	7882.4	8517.9	9946.6	10764.4	11936.9	16424.9	21666.7	25465.0	25465.0	20972.1
62.5°	5847.7	5946.3	6537.5	7655.8	9030.3	10104.2	15291.8	23169.3	28095.8	27977.5	22588.0
65°	4015.1	4093.9	4522.5	5266.4	6503.0	8611.5	13744.9	23189.0	29839.8	29682.1	23277.7
66°	3369.7	3438.7	3803.3	4404.3	5443.8	7813.4	13198.1	22770.2	30204.3	29982.6	22987.0
67.5°	2660.3	2709.6	2951.0	3305.7	3990.5	6325.6	12335.9	21583.0	30169.8	30036.8	22248.0
70°	1901.6	1936.1	2113.5	2187.4	2359.8	3660.4	9798.8	18902.9	27750.9	27790.3	19341.4
72.5°	1473.0	1527.2	1635.6	1650.4	1611.0	1946.0	5946.3	15769.7	22701.3	22686.5	14355.8
75°	1187.3	1216.8	1271.0	1300.6	1290.7	1256.3	2517.4	11764.5	15626.8	15809.1	8040.0
77.5°	936.0	931.1	980.4	1019.8	1049.3	985.3	1152.8	6897.1	8192.8	7961.2	3019.9
80°	689.7	689.7	758.7	773.5	817.8	827.7	768.5	2660.3	2813.0	2556.8	783.3
82.5°	453.2	453.2	527.1	537.0	581.3	645.4	556.7	798.1	778.4	739.0	354.7
85°	246.3	236.5	261.1	295.6	320.2	379.3	335.0	399.0	408.9	404.0	236.5
87.5°	49.3	44.3	69.0	78.8	88.7	118.2	108.4	162.6	226.6	221.7	103.5
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: P1211481

CATALOG NUMBER: ARCH4-290-727-U-T2RE

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6276.3	6276.3	6276.3	6276.3	6276.3	6276.3	6276.3	6276.3	6276.3	6276.3	6276.3
2.5°	6315.8	6310.8	6365.0	6429.1	6503.0	6547.3	6567.0	6601.5	6576.9	6586.7	6616.3
5°	6409.4	6424.1	6503.0	6586.7	6621.2	6596.6	6542.4	6522.7	6478.3	6468.5	6458.6
7.5°	6547.3	6571.9	6650.8	6670.5	6567.0	6394.6	6271.4	6202.5	6128.6	6108.8	6099.0
10°	6773.9	6788.7	6808.4	6606.4	6350.2	6118.7	5966.0	5901.9	5852.7	5813.3	5823.1
12.5°	7059.7	7049.8	6897.1	6478.3	6113.8	5877.3	5773.8	5734.4	5699.9	5675.3	5670.4
15°	7419.3	7350.3	6911.9	6301.0	5892.1	5695.0	5621.1	5606.3	5566.9	5566.9	5562.0
17.5°	7783.9	7606.5	6902.0	6113.8	5680.2	5571.9	5527.5	5517.7	5507.8	5502.9	5517.7
20°	8148.4	7833.1	6823.2	5882.2	5532.4	5468.4	5458.6	5463.5	5453.6	5468.4	5458.6
22.5°	8468.6	7980.9	6675.4	5635.9	5429.0	5424.1	5399.4	5409.3	5443.8	5448.7	5463.5
25°	8715.0	8035.1	6458.6	5409.3	5355.1	5345.2	5374.8	5414.2	5443.8	5448.7	5473.3
27.5°	8916.9	8005.5	6187.7	5231.9	5227.0	5281.2	5369.9	5384.7	5389.6	5389.6	5369.9
30°	9069.7	7941.5	5842.8	5034.9	5059.5	5192.5	5276.3	5276.3	5236.9	5227.0	5256.6
32.5°	9104.2	7857.8	5468.4	4832.9	4872.3	5029.9	5133.4	5098.9	5054.6	5054.6	5074.3
35°	9133.7	7744.4	5167.9	4557.0	4616.1	4803.3	4901.9	4832.9	4783.6	4768.8	4763.9
37.5°	9123.9	7700.1	4896.9	4207.2	4286.0	4468.3	4532.4	4468.3	4394.4	4359.9	4404.3
40°	9133.7	7670.5	4557.0	3823.0	3901.8	4010.2	4093.9	4044.6	3975.7	3887.0	3931.3
42.5°	9192.8	7710.0	4182.6	3448.5	3448.5	3507.7	3650.5	3616.0	3448.5	3414.1	3453.5
45°	9508.1	7921.8	3808.2	3074.1	3019.9	3059.4	3207.1	3059.4	2955.9	2955.9	2990.4
47.5°	10271.7	8315.9	3478.1	2744.1	2616.0	2694.8	2734.2	2596.3	2517.4	2497.7	2532.2
50°	11828.5	9104.2	3281.0	2473.1	2315.5	2374.6	2349.9	2345.0	2266.2	2276.0	2295.7
52.5°	14193.2	10641.2	3221.9	2340.1	2143.0	2157.8	2133.2	2143.0	2128.2	2177.5	2192.3
55°	16769.8	12262.0	3295.8	2359.8	2024.8	1921.3	1931.2	1980.4	2039.6	2118.4	2133.2
57.5°	18696.0	13074.9	3488.0	2492.8	1877.0	1719.3	1744.0	1837.6	1950.9	2014.9	2049.4
60°	20129.6	12976.4	3768.8	2527.3	1699.6	1537.1	1581.4	1719.3	1817.9	1872.1	1906.6
62.5°	20597.7	12360.6	3837.7	2276.0	1468.1	1364.6	1473.0	1615.9	1660.2	1719.3	1744.0
65°	20213.4	11488.6	3335.2	1847.4	1290.7	1236.5	1394.2	1502.6	1561.7	1591.3	1596.2
66°	19760.2	10966.4	3064.3	1679.9	1226.7	1197.1	1364.6	1453.3	1512.4	1507.5	1512.4
67.5°	18765.0	9872.7	2625.8	1443.5	1133.1	1138.0	1315.4	1374.5	1394.2	1379.4	1379.4
70°	15380.5	6951.3	1881.9	1093.7	995.2	1064.1	1182.4	1197.1	1241.5	1221.8	1221.8
72.5°	9483.5	3414.1	1261.2	837.5	886.8	995.2	990.2	1039.5	1142.9	1172.5	1192.2
75°	4660.5	1384.3	832.6	709.4	793.2	832.6	822.7	945.9	1093.7	1221.8	1266.1
77.5°	1768.6	689.7	581.3	620.7	640.4	625.7	655.2	857.2	1093.7	1325.2	1369.6
80°	546.8	477.9	458.2	512.4	482.8	458.2	492.6	709.4	926.2	1005.0	1005.0
82.5°	330.1	374.4	354.7	349.8	325.1	330.1	354.7	507.4	714.3	748.8	748.8
85°	231.5	246.3	202.0	192.1	187.2	182.3	182.3	295.6	423.7	418.8	433.5
87.5°	88.7	98.5	73.9	73.9	69.0	49.3	39.4	49.3	49.3	34.5	24.6
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)