

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: P1211293

Luminaire Tested: **ARCH4-230-730-U-T2RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211293
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: ARCH4-230-730-U-T2RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 905mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II
ROADWAY ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33591 lumens
Efficiency: N/A
Efficacy: 145.3 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 231.2
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



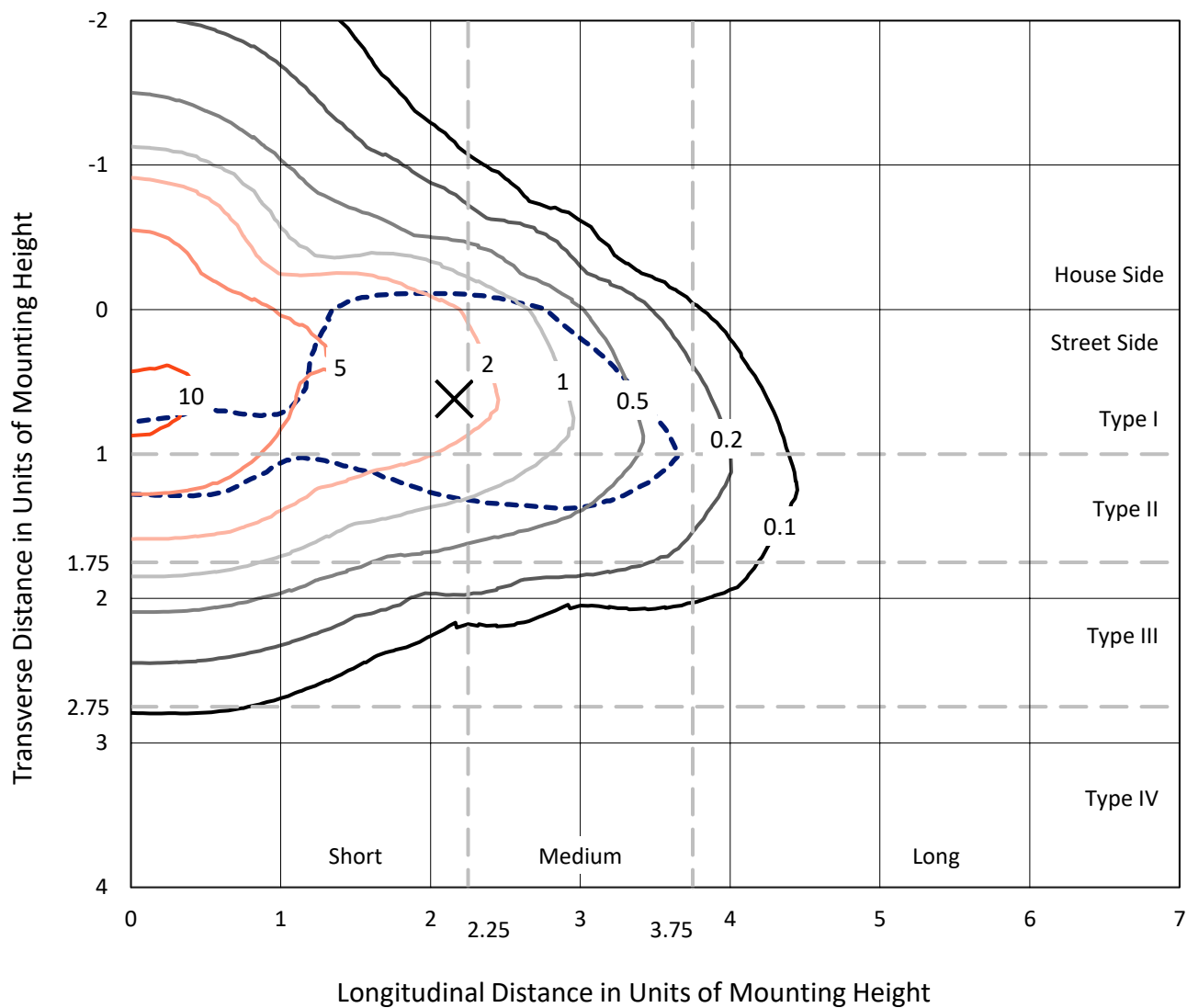
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

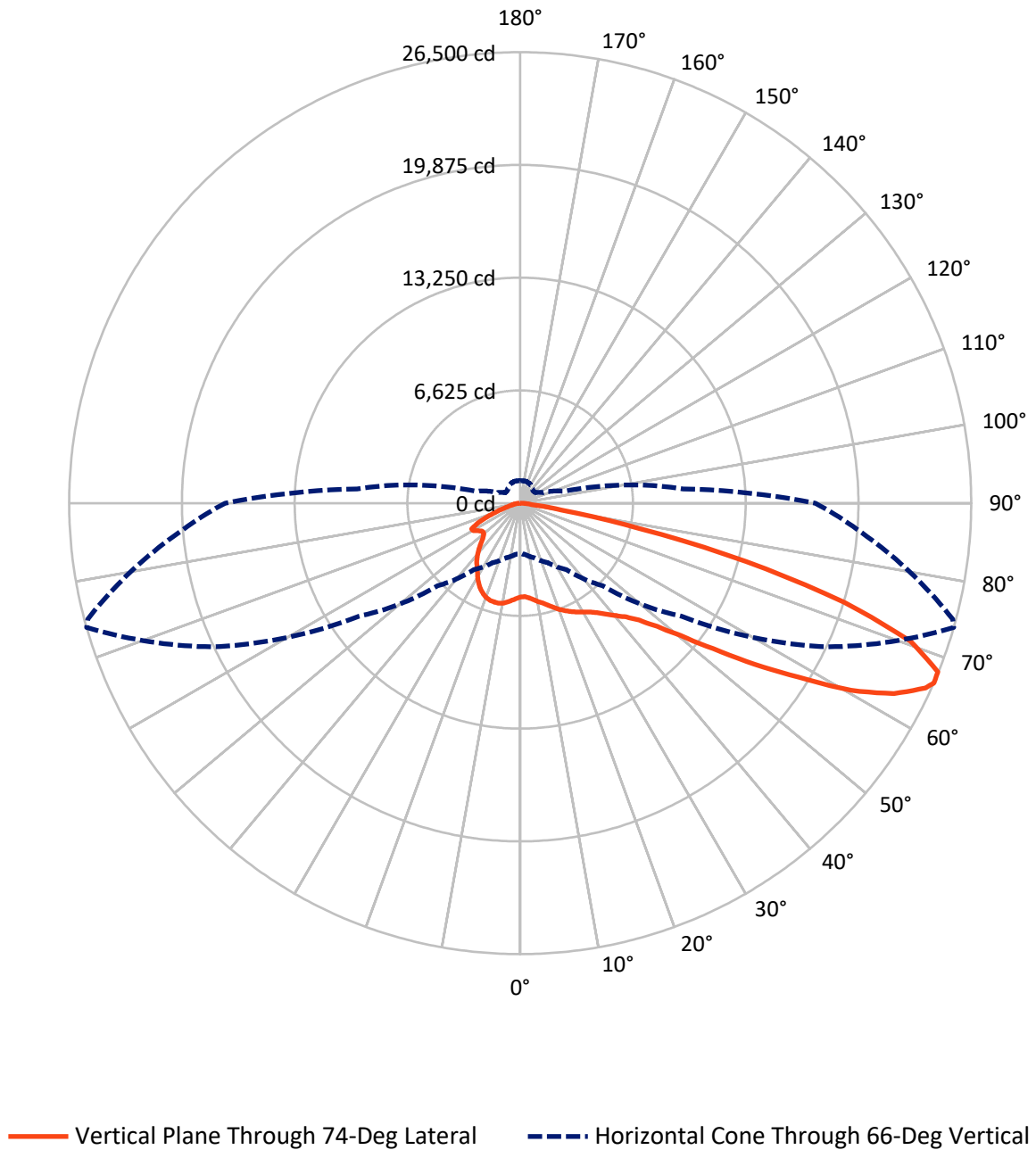
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.5 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	8180.3	0.0	8180.3
	% Fixture	24.4	0.0	24.4
Street Side	Lumens	25410.7	0.0	25410.7
	% Fixture	75.6	0.0	75.6
Total	Lumens	33591.0	0.0	33591.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	525.3	1.6
10°-20°	1615.4	4.8
20°-30°	3031.2	9.0
30°-40°	4662.8	13.9
40°-50°	6271.9	18.7
50°-60°	7417.2	22.1
60°-70°	6861.3	20.4
70°-80°	2886.5	8.6
80°-90°	319.4	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°	33591.0	100.0
0°-180°	33591.0	100.0

Coefficient of Utilization



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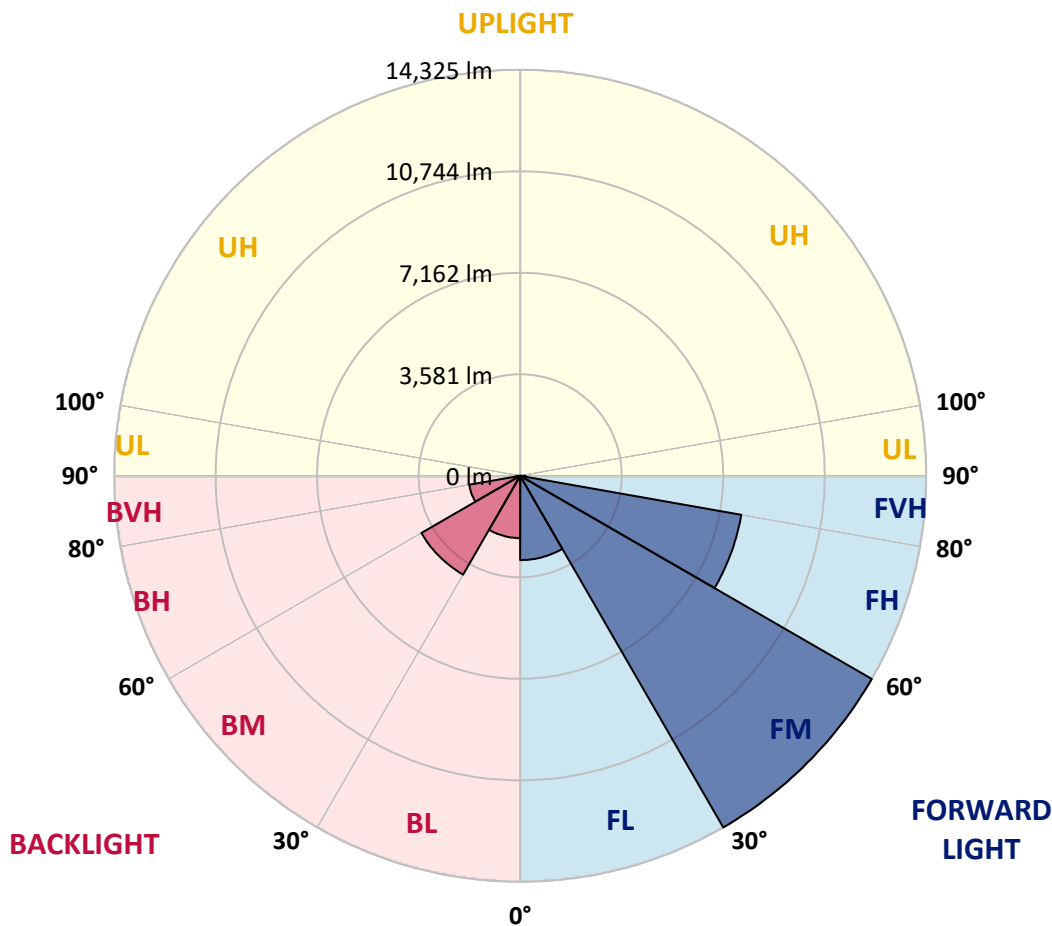
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2973.2	8.9			
FM	(30°-60°)	14324.7	42.6			
FH	(60°-80°)	7921.7	23.6			G4/12000
FVH	(80°-90°)	191.1	0.6			G2/225
BL	(0°-30°)	2198.7	6.5	B3/2500		
BM	(30°-60°)	4027.2	12.0	B3/5000		
BH	(60°-80°)	1826.1	5.4	B3/2500		G3/2500
BVH	(80°-90°)	128.3	0.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	5506.7	5506.7	5506.7	5506.7	5506.7	5506.7	5506.7	5506.7	5506.7	5506.7	5506.7
2.5°	5489.4	5480.7	5498.0	5524.0	5536.9	5515.3	5506.7	5502.4	5502.4	5489.4	5511.0
5°	5230.1	5225.7	5264.6	5312.2	5402.9	5467.8	5554.2	5606.1	5588.8	5562.9	5580.2
7.5°	4892.9	4884.3	4931.8	5022.6	5147.9	5290.6	5502.4	5666.6	5731.4	5722.8	5718.5
10°	5022.6	5013.9	5009.6	4983.7	5026.9	5165.2	5385.7	5675.3	5895.7	5900.0	5904.3
12.5°	5472.1	5493.7	5472.1	5390.0	5294.9	5243.0	5372.7	5696.9	6034.0	6059.9	6168.0
15°	6085.9	6064.3	6021.0	5926.0	5779.0	5623.4	5528.3	5796.3	6232.8	6254.4	6492.2
17.5°	6626.2	6643.5	6617.5	6526.8	6353.9	6150.7	5861.1	5969.2	6444.6	6505.1	6838.0
20°	7214.0	7283.2	7248.6	7136.2	6993.6	6691.0	6327.9	6219.9	6678.0	6721.3	7196.7
22.5°	7892.6	7966.1	7901.3	7793.2	7676.5	7304.8	6838.0	6526.8	6872.5	6963.3	7542.5
25°	8705.2	8774.4	8713.9	8545.3	8398.3	7944.5	7386.9	6872.5	7062.7	7162.1	7823.5
27.5°	9349.3	9401.1	9457.3	9357.9	9133.1	8662.0	7957.5	7231.3	7252.9	7356.7	8082.8
30°	9924.1	10053.8	10101.3	10114.3	9924.1	9396.8	8541.0	7603.0	7417.2	7525.2	8342.1
32.5°	10710.8	10905.3	10827.5	10905.3	10792.9	10088.4	9146.1	7987.7	7629.0	7728.4	8588.5
35°	11860.5	12016.2	11813.0	11752.5	11570.9	10788.6	9729.6	8385.4	7909.9	8018.0	8821.9
37.5°	13096.7	13274.0	12980.0	12738.0	12392.2	11480.2	10231.0	8908.4	8298.9	8385.4	9038.0
40°	14177.3	14324.3	14069.3	13749.4	13170.2	12089.6	10663.3	9275.8	8687.9	8796.0	9288.7
42.5°	15175.8	15270.9	14985.6	14678.7	13905.0	12638.6	11130.1	9664.8	9141.8	9245.5	9491.9
45°	16187.2	16260.7	15863.0	15426.5	14518.8	13140.0	11644.4	10209.4	9807.4	9945.7	9820.4
47.5°	16368.8	16390.4	16321.2	16027.3	15002.9	13619.7	12279.8	10939.9	10823.2	10974.5	10386.6
50°	15111.0	15305.5	15733.4	16023.0	15197.4	14021.7	12915.2	11985.9	12223.6	12418.1	11562.3
52.5°	12668.8	12854.7	13844.5	14942.4	14730.6	14112.5	13598.1	13312.9	14198.9	14432.3	13161.6
55°	10092.7	10257.0	11303.0	12884.9	13222.1	13697.5	14328.6	15007.2	16718.9	16874.5	14916.5
57.5°	8311.9	8402.7	9150.4	10671.9	11212.2	12370.6	14721.9	17021.4	19282.0	19519.8	16442.2
60°	6816.4	6915.8	7473.4	8726.8	9444.3	10473.1	14410.7	19009.7	22342.3	22342.3	18400.3
62.5°	5130.6	5217.1	5735.8	6716.9	7922.9	8865.2	13416.6	20328.0	24650.4	24546.7	19818.0
65°	3522.7	3591.9	3967.9	4620.6	5705.5	7555.5	12059.4	20345.3	26180.5	26042.2	20423.1
66°	2956.5	3017.0	3336.9	3864.2	4776.2	6855.3	11579.6	19977.9	26500.4	26305.9	20168.1
67.5°	2334.1	2377.3	2589.1	2900.3	3501.1	5549.9	10823.2	18936.2	26470.1	26353.4	19519.8
70°	1668.4	1698.7	1854.3	1919.1	2070.4	3211.5	8597.2	16584.9	24347.8	24382.4	16969.6
72.5°	1292.4	1339.9	1435.0	1448.0	1413.4	1707.3	5217.1	13835.9	19917.4	19904.4	12595.3
75°	1041.7	1067.6	1115.2	1141.1	1132.5	1102.2	2208.7	10321.8	13710.5	13870.4	7054.1
77.5°	821.2	816.9	860.1	894.7	920.7	864.5	1011.4	6051.3	7188.1	6984.9	2649.6
80°	605.1	605.1	665.6	678.6	717.5	726.2	674.3	2334.1	2468.1	2243.3	687.3
82.5°	397.7	397.7	462.5	471.1	510.0	566.2	488.4	700.2	682.9	648.4	311.2
85°	216.1	207.5	229.1	259.3	281.0	332.8	293.9	350.1	358.8	354.4	207.5
87.5°	43.2	38.9	60.5	69.2	77.8	103.7	95.1	142.6	198.8	194.5	90.8
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°	5506.7	5506.7	5506.7	5506.7	5506.7	5506.7	5506.7	5506.7	5506.7	5506.7	5506.7
2.5°	5541.3	5536.9	5584.5	5640.7	5705.5	5744.4	5761.7	5792.0	5770.3	5779.0	5804.9
5°	5623.4	5636.4	5705.5	5779.0	5809.2	5787.6	5740.1	5722.8	5683.9	5675.3	5666.6
7.5°	5744.4	5766.0	5835.2	5852.5	5761.7	5610.4	5502.4	5441.8	5377.0	5359.7	5351.1
10°	5943.2	5956.2	5973.5	5796.3	5571.5	5368.4	5234.4	5178.2	5135.0	5100.4	5109.0
12.5°	6193.9	6185.3	6051.3	5683.9	5364.0	5156.6	5065.8	5031.2	5001.0	4979.4	4975.0
15°	6509.5	6449.0	6064.3	5528.3	5169.5	4996.6	4931.8	4918.8	4884.3	4884.3	4879.9
17.5°	6829.3	6673.7	6055.6	5364.0	4983.7	4888.6	4849.7	4841.0	4832.4	4828.1	4841.0
20°	7149.2	6872.5	5986.5	5160.9	4854.0	4797.8	4789.2	4793.5	4784.8	4797.8	4789.2
22.5°	7430.1	7002.2	5856.8	4944.8	4763.2	4758.9	4737.3	4745.9	4776.2	4780.5	4793.5
25°	7646.2	7049.8	5666.6	4745.9	4698.4	4689.8	4715.7	4750.3	4776.2	4780.5	4802.1
27.5°	7823.5	7023.8	5428.9	4590.3	4586.0	4633.6	4711.4	4724.3	4728.7	4728.7	4711.4
30°	7957.5	6967.6	5126.3	4417.4	4439.1	4555.8	4629.2	4629.2	4594.7	4586.0	4612.0
32.5°	7987.7	6894.2	4797.8	4240.2	4274.8	4413.1	4503.9	4473.6	4434.7	4434.7	4452.0
35°	8013.6	6794.7	4534.2	3998.2	4050.0	4214.3	4300.7	4240.2	4197.0	4184.0	4179.7
37.5°	8005.0	6755.8	4296.4	3691.3	3760.4	3920.4	3976.6	3920.4	3855.5	3825.3	3864.2
40°	8013.6	6729.9	3998.2	3354.1	3423.3	3518.4	3591.9	3548.7	3488.1	3410.3	3449.2
42.5°	8065.5	6764.5	3669.7	3025.6	3025.6	3077.5	3202.9	3172.6	3025.6	2995.4	3030.0
45°	8342.1	6950.3	3341.2	2697.2	2649.6	2684.2	2813.9	2684.2	2593.4	2593.4	2623.7
47.5°	9012.1	7296.1	3051.6	2407.6	2295.2	2364.3	2398.9	2277.9	2208.7	2191.4	2221.7
50°	10378.0	7987.7	2878.7	2169.8	2031.5	2083.4	2061.8	2057.4	1988.3	1996.9	2014.2
52.5°	12452.7	9336.3	2826.8	2053.1	1880.2	1893.2	1871.6	1880.2	1867.3	1910.5	1923.4
55°	14713.3	10758.3	2891.7	2070.4	1776.5	1685.7	1694.4	1737.6	1789.5	1858.6	1871.6
57.5°	16403.3	11471.5	3060.2	2187.1	1646.8	1508.5	1530.1	1612.2	1711.7	1767.8	1798.1
60°	17661.1	11385.1	3306.6	2217.4	1491.2	1348.6	1387.5	1508.5	1594.9	1642.5	1672.8
62.5°	18071.8	10844.8	3367.1	1996.9	1288.1	1197.3	1292.4	1417.7	1456.6	1508.5	1530.1
65°	17734.6	10079.7	2926.2	1620.9	1132.5	1084.9	1223.2	1318.3	1370.2	1396.1	1400.4
66°	17337.0	9621.6	2688.5	1473.9	1076.3	1050.3	1197.3	1275.1	1327.0	1322.6	1327.0
67.5°	16463.9	8662.0	2303.8	1266.5	994.1	998.5	1154.1	1205.9	1223.2	1210.3	1210.3
70°	13494.4	6098.8	1651.1	959.6	873.1	933.6	1037.4	1050.3	1089.2	1071.9	1071.9
72.5°	8320.5	2995.4	1106.5	734.8	778.0	873.1	868.8	912.0	1002.8	1028.7	1046.0
75°	4088.9	1214.6	730.5	622.4	695.9	730.5	721.8	829.9	959.6	1071.9	1110.8
77.5°	1551.7	605.1	510.0	544.6	561.9	548.9	574.9	752.1	959.6	1162.7	1201.6
80°	479.8	419.3	402.0	449.5	423.6	402.0	432.2	622.4	812.6	881.8	881.8
82.5°	289.6	328.5	311.2	306.9	285.3	289.6	311.2	445.2	626.7	657.0	657.0
85°	203.2	216.1	177.2	168.6	164.2	159.9	159.9	259.3	371.7	367.4	380.4
87.5°	77.8	86.4	64.8	64.8	60.5	43.2	34.6	43.2	43.2	30.3	21.6
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)