

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: P1211445

Luminaire Tested: **ARCH4-280-722-U-T2RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211445
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: ARCH4-280-722-U-T2RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 1085mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II
ROADWAY ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33870 lumens
Efficiency: N/A
Efficacy: 121.1 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): 279.7
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



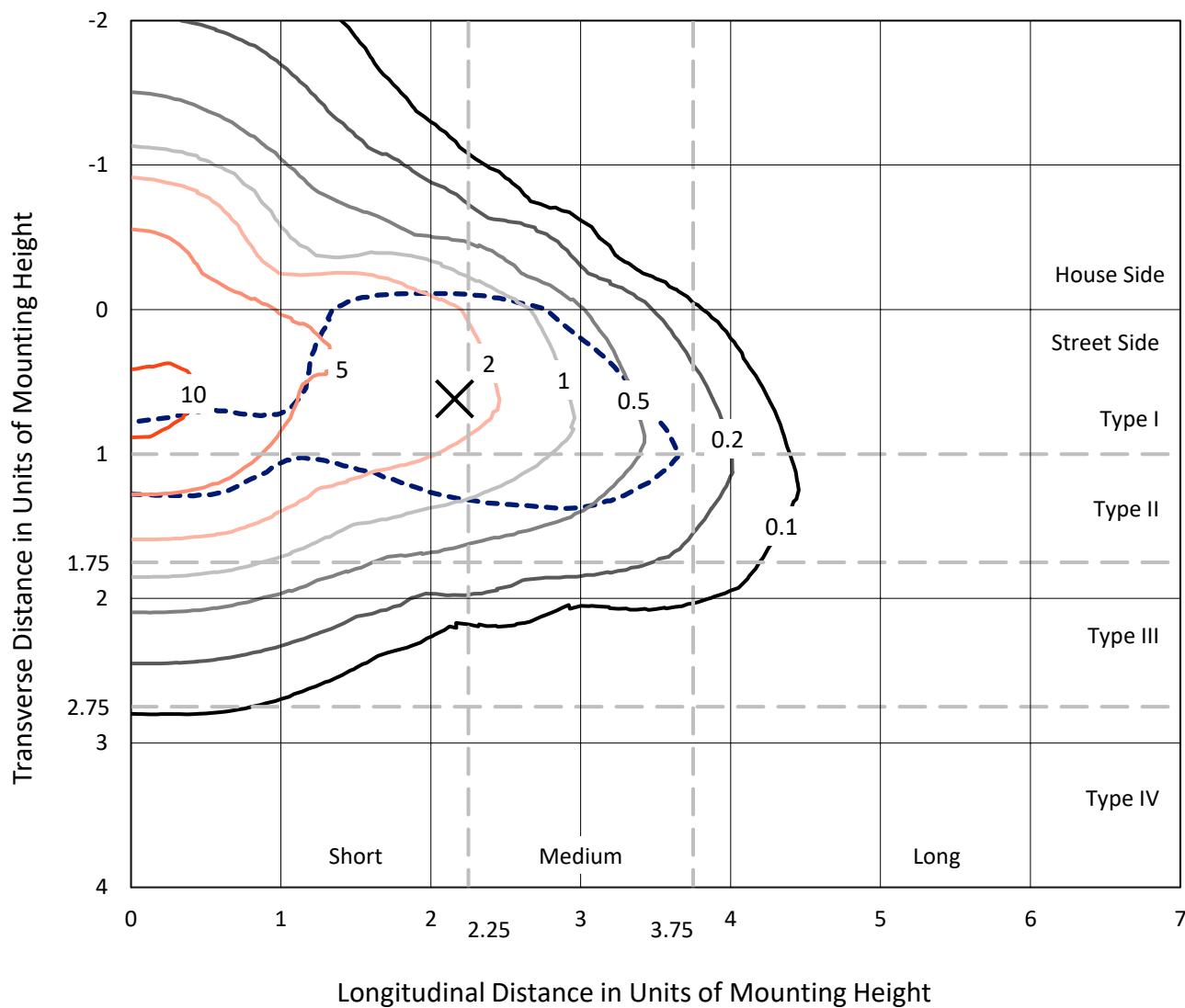
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Iso-Footcandle Lines of Horizontal Illumination

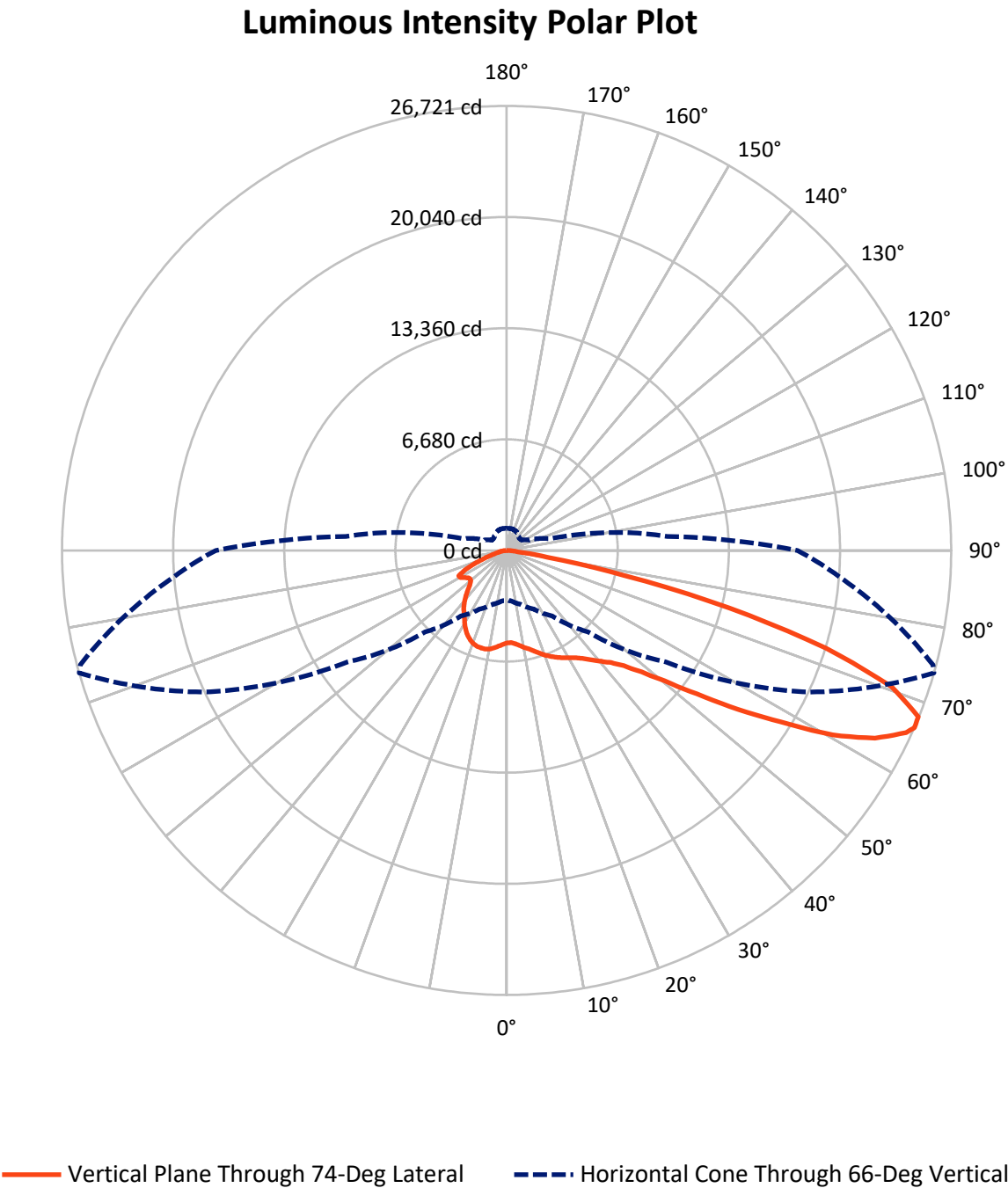
✕ Max cd

--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.6 fc
Type II - Short - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8248.3	0.0	8248.3
	% Fixture	24.4	0.0	24.4
Street Side	Lumens	25621.7	0.0	25621.7
	% Fixture	75.6	0.0	75.6
Total	Lumens	33870.0	0.0	33870.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	529.6	1.6
10°-20°	1628.8	4.8
20°-30°	3056.4	9.0
30°-40°	4701.5	13.9
40°-50°	6323.9	18.7
50°-60°	7478.8	22.1
60°-70°	6918.3	20.4
70°-80°	2910.5	8.6
80°-90°	322.1	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°	33870.0	100.0
0°-180°	33870.0	100.0

Coefficient of Utilization



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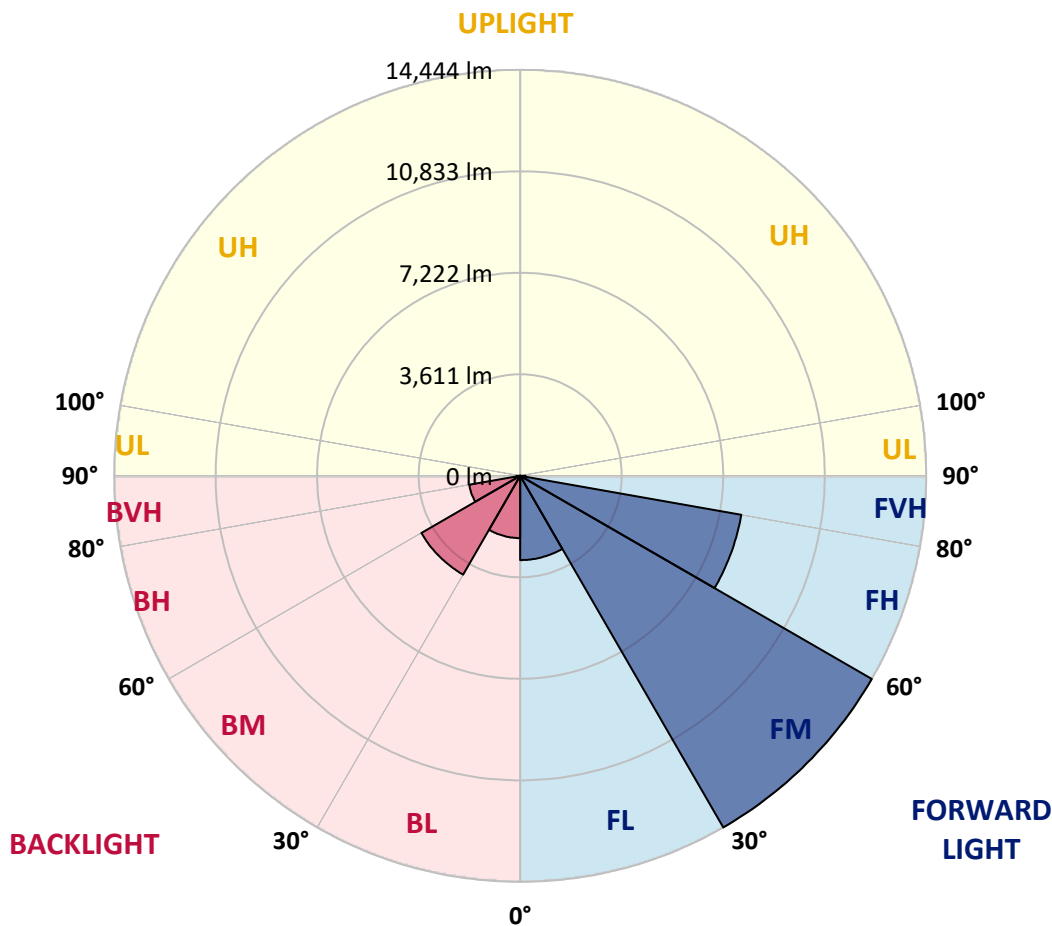
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2997.9	8.9			
FM	(30°-60°)	14443.6	42.6			
FH	(60°-80°)	7987.5	23.6			G4/12000
FVH	(80°-90°)	192.7	0.6			G2/225
BL	(0°-30°)	2217.0	6.5	B3/2500		
BM	(30°-60°)	4060.6	12.0	B3/5000		
BH	(60°-80°)	1841.3	5.4	B3/2500		G3/2500
BVH	(80°-90°)	129.4	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°	5552.4	5552.4	5552.4	5552.4	5552.4	5552.4	5552.4	5552.4	5552.4	5552.4	5552.4
2.5°	5535.0	5526.3	5543.7	5569.9	5582.9	5561.1	5552.4	5548.1	5548.1	5535.0	5556.8
5°	5273.5	5269.1	5308.4	5356.3	5447.8	5513.2	5600.4	5652.7	5635.2	5609.1	5626.5
7.5°	4933.5	4924.8	4972.8	5064.3	5190.7	5334.5	5548.1	5713.7	5779.0	5770.3	5766.0
10°	5064.3	5055.6	5051.2	5025.1	5068.7	5208.1	5430.4	5722.4	5944.7	5949.0	5953.4
12.5°	5517.6	5539.3	5517.6	5434.7	5338.9	5286.6	5417.3	5744.2	6084.1	6110.3	6219.2
15°	6136.4	6114.6	6071.1	5975.2	5827.0	5670.1	5574.2	5844.4	6284.6	6306.4	6546.1
17.5°	6681.2	6698.6	6672.5	6581.0	6406.6	6201.8	5909.8	6018.8	6498.2	6559.2	6894.8
20°	7273.9	7343.7	7308.8	7195.5	7051.7	6746.6	6380.5	6271.5	6733.5	6777.1	7256.5
22.5°	7958.2	8032.3	7966.9	7857.9	7740.3	7365.5	6894.8	6581.0	6929.6	7021.2	7605.2
25°	8777.5	8847.3	8786.2	8616.3	8468.1	8010.5	7448.3	6929.6	7121.4	7221.6	7888.4
27.5°	9426.9	9479.2	9535.9	9435.6	9209.0	8733.9	8023.6	7291.4	7313.2	7417.8	8149.9
30°	10006.6	10137.3	10185.2	10198.3	10006.6	9474.9	8611.9	7666.2	7478.8	7587.7	8411.4
32.5°	10799.8	10995.9	10917.4	10995.9	10882.6	10172.2	9222.1	8054.1	7692.3	7792.6	8659.9
35°	11959.1	12116.0	11911.1	11850.1	11667.1	10878.2	9810.4	8455.0	7975.6	8084.6	8895.2
37.5°	13205.5	13384.2	13087.8	12843.8	12495.1	11575.5	10316.0	8982.4	8367.9	8455.0	9113.1
40°	14295.1	14443.3	14186.1	13863.6	13279.6	12190.0	10751.8	9352.8	8760.1	8869.1	9365.9
42.5°	15301.8	15397.7	15110.1	14800.6	14020.5	12743.5	11222.5	9745.1	9217.7	9322.3	9570.7
45°	16321.7	16395.8	15994.8	15554.6	14639.4	13249.1	11741.1	10294.2	9888.9	10028.3	9902.0
47.5°	16504.7	16526.5	16456.8	16160.4	15127.5	13732.9	12381.8	11030.7	10913.1	11065.6	10472.9
50°	15236.5	15432.6	15864.1	16156.1	15323.6	14138.2	13022.5	12085.4	12325.2	12521.3	11658.3
52.5°	12774.1	12961.5	13959.5	15066.5	14852.9	14229.7	13711.1	13423.4	14316.9	14552.2	13270.9
55°	10176.5	10342.1	11396.8	12992.0	13331.9	13811.3	14447.6	15131.9	16857.7	17014.6	15040.3
57.5°	8380.9	8472.5	9226.4	10760.5	11305.3	12473.3	14844.2	17162.8	19442.2	19681.9	16578.8
60°	6873.0	6973.2	7535.4	8799.3	9522.8	10560.1	14530.4	19167.6	22527.8	22527.8	18553.1
62.5°	5173.3	5260.4	5783.4	6772.7	7988.7	8938.8	13528.0	20496.9	24855.1	24750.5	19982.6
65°	3552.0	3621.7	4000.9	4659.0	5752.9	7618.2	12159.5	20514.3	26398.0	26258.5	20592.8
66°	2981.0	3042.1	3364.6	3896.3	4815.9	6912.2	11675.8	20143.9	26720.5	26524.4	20335.6
67.5°	2353.5	2397.0	2610.6	2924.4	3530.2	5596.0	10913.1	19093.5	26690.0	26572.3	19681.9
70°	1682.3	1712.8	1869.7	1935.1	2087.6	3238.2	8668.6	16722.6	24550.1	24584.9	17110.5
72.5°	1303.1	1351.1	1446.9	1460.0	1425.1	1721.5	5260.4	13950.8	20082.8	20069.8	12700.0
75°	1050.3	1076.5	1124.4	1150.6	1141.9	1111.4	2227.1	10407.5	13824.4	13985.6	7112.7
77.5°	828.1	823.7	867.3	902.2	928.3	871.7	1019.8	6101.6	7247.8	7042.9	2671.6
80°	610.2	610.2	671.2	684.2	723.5	732.2	679.9	2353.5	2488.6	2261.9	693.0
82.5°	401.0	401.0	466.3	475.0	514.3	570.9	492.5	706.0	688.6	653.7	313.8
85°	217.9	209.2	231.0	261.5	283.3	335.6	296.4	353.0	361.7	357.4	209.2
87.5°	43.6	39.2	61.0	69.7	78.4	104.6	95.9	143.8	200.5	196.1	91.5
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°	5552.4	5552.4	5552.4	5552.4	5552.4	5552.4	5552.4	5552.4	5552.4	5552.4	5552.4
2.5°	5587.3	5582.9	5630.9	5687.5	5752.9	5792.1	5809.6	5840.1	5818.3	5827.0	5853.1
5°	5670.1	5683.2	5752.9	5827.0	5857.5	5835.7	5787.8	5770.3	5731.1	5722.4	5713.7
7.5°	5792.1	5813.9	5883.6	5901.1	5809.6	5657.0	5548.1	5487.0	5421.7	5404.2	5395.5
10°	5992.6	6005.7	6023.1	5844.4	5617.8	5413.0	5277.8	5221.2	5177.6	5142.7	5151.5
12.5°	6245.4	6236.7	6101.6	5731.1	5408.6	5199.4	5107.9	5073.0	5042.5	5020.7	5016.4
15°	6563.5	6502.5	6114.6	5574.2	5212.5	5038.1	4972.8	4959.7	4924.8	4924.8	4920.5
17.5°	6886.0	6729.1	6105.9	5408.6	5025.1	4929.2	4890.0	4881.2	4872.5	4868.2	4881.2
20°	7208.6	6929.6	6036.2	5203.8	4894.3	4837.7	4828.9	4833.3	4824.6	4837.7	4828.9
22.5°	7491.8	7060.4	5905.4	4985.8	4802.8	4798.4	4776.6	4785.4	4815.9	4820.2	4833.3
25°	7709.8	7108.3	5713.7	4785.4	4737.4	4728.7	4754.9	4789.7	4815.9	4820.2	4842.0
27.5°	7888.4	7082.2	5474.0	4628.5	4624.1	4672.1	4750.5	4763.6	4767.9	4767.9	4750.5
30°	8023.6	7025.5	5168.9	4454.1	4475.9	4593.6	4667.7	4667.7	4632.8	4624.1	4650.3
32.5°	8054.1	6951.4	4837.7	4275.4	4310.3	4449.8	4541.3	4510.8	4471.6	4471.6	4489.0
35°	8080.2	6851.2	4571.8	4031.4	4083.7	4249.3	4336.5	4275.4	4231.9	4218.8	4214.4
37.5°	8071.5	6812.0	4332.1	3722.0	3791.7	3952.9	4009.6	3952.9	3887.6	3857.1	3896.3
40°	8080.2	6785.8	4031.4	3382.0	3451.7	3547.6	3621.7	3578.1	3517.1	3438.7	3477.9
42.5°	8132.5	6820.7	3700.2	3050.8	3050.8	3103.1	3229.5	3199.0	3050.8	3020.3	3055.1
45°	8411.4	7008.1	3368.9	2719.6	2671.6	2706.5	2837.2	2706.5	2615.0	2615.0	2645.5
47.5°	9087.0	7356.7	3076.9	2427.5	2314.2	2384.0	2418.8	2296.8	2227.1	2209.6	2240.1
50°	10464.2	8054.1	2902.6	2187.8	2048.4	2100.7	2078.9	2074.5	2004.8	2013.5	2030.9
52.5°	12556.1	9413.8	2850.3	2070.2	1895.8	1908.9	1887.1	1895.8	1882.8	1926.3	1939.4
55°	14835.5	10847.7	2915.7	2087.6	1791.2	1699.7	1708.4	1752.0	1804.3	1874.1	1887.1
57.5°	16539.6	11566.8	3085.6	2205.3	1660.5	1521.0	1542.8	1625.6	1725.9	1782.5	1813.0
60°	17807.8	11479.6	3334.1	2235.8	1503.6	1359.8	1399.0	1521.0	1608.2	1656.1	1686.6
62.5°	18221.9	10934.9	3395.1	2013.5	1298.8	1207.2	1303.1	1429.5	1468.7	1521.0	1542.8
65°	17881.9	10163.5	2950.5	1634.3	1141.9	1093.9	1233.4	1329.3	1381.6	1407.7	1412.1
66°	17481.0	9701.5	2710.8	1486.2	1085.2	1059.1	1207.2	1285.7	1338.0	1333.6	1338.0
67.5°	16600.6	8733.9	2323.0	1277.0	1002.4	1006.8	1163.7	1216.0	1233.4	1220.3	1220.3
70°	13606.5	6149.5	1664.9	967.5	880.4	941.4	1046.0	1059.1	1098.3	1080.8	1080.8
72.5°	8389.6	3020.3	1115.7	740.9	784.5	880.4	876.0	919.6	1011.1	1037.3	1054.7
75°	4122.9	1224.7	736.5	627.6	701.7	736.5	727.8	836.8	967.5	1080.8	1120.1
77.5°	1564.6	610.2	514.3	549.1	566.6	553.5	579.6	758.3	967.5	1172.4	1211.6
80°	483.8	422.8	405.3	453.3	427.1	405.3	435.8	627.6	819.4	889.1	889.1
82.5°	292.0	331.2	313.8	309.4	287.6	292.0	313.8	448.9	631.9	662.5	662.5
85°	204.8	217.9	178.7	170.0	165.6	161.3	161.3	261.5	374.8	370.5	383.5
87.5°	78.4	87.2	65.4	65.4	61.0	43.6	34.9	43.6	43.6	30.5	21.8
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)