

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: P841839

Luminaire Tested: **ARCH4-230-750-U-T2R**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841839
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-329-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-230-750-U-T2R
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 905mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36510 lumens
Efficiency: N/A
Efficacy: 157.9 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G4

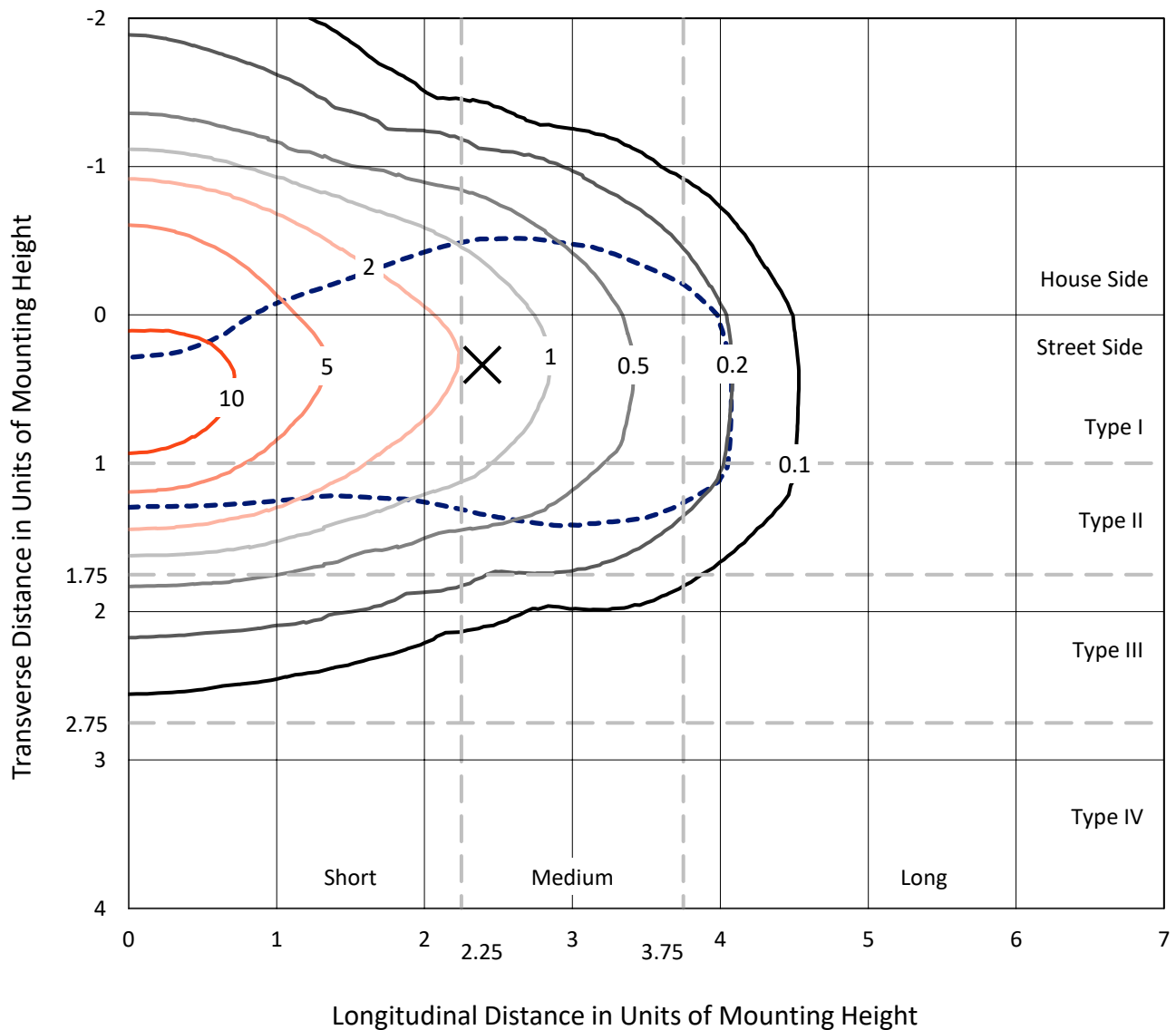
Input Watts (W): 231.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

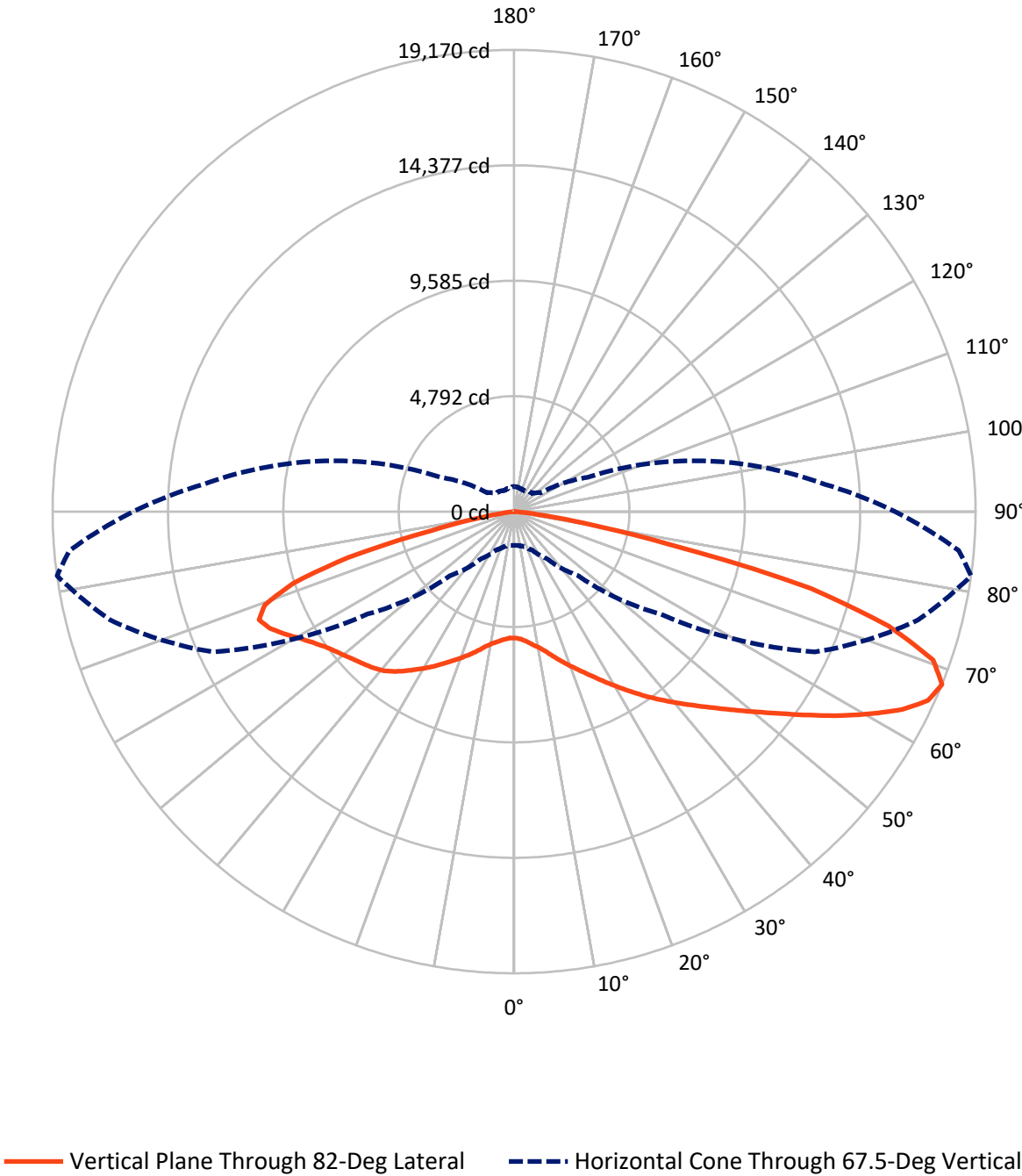
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.1 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11118.8	0.0	11118.8
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	25391.2	0.0	25391.2
	% Fixture	69.5	0.0	69.5
Total	Lumens	36510.0	0.0	36510.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	542.4	1.5
10°-20°	1953.7	5.4
20°-30°	3926.5	10.8
30°-40°	6167.9	16.9
40°-50°	7513.8	20.6
50°-60°	7099.6	19.4
60°-70°	5862.6	16.1
70°-80°	3192.5	8.7
80°-90°	251.0	0.7
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°	36510.0	100.0
0°-180°	36510.0	100.0

Coefficient of Utilization



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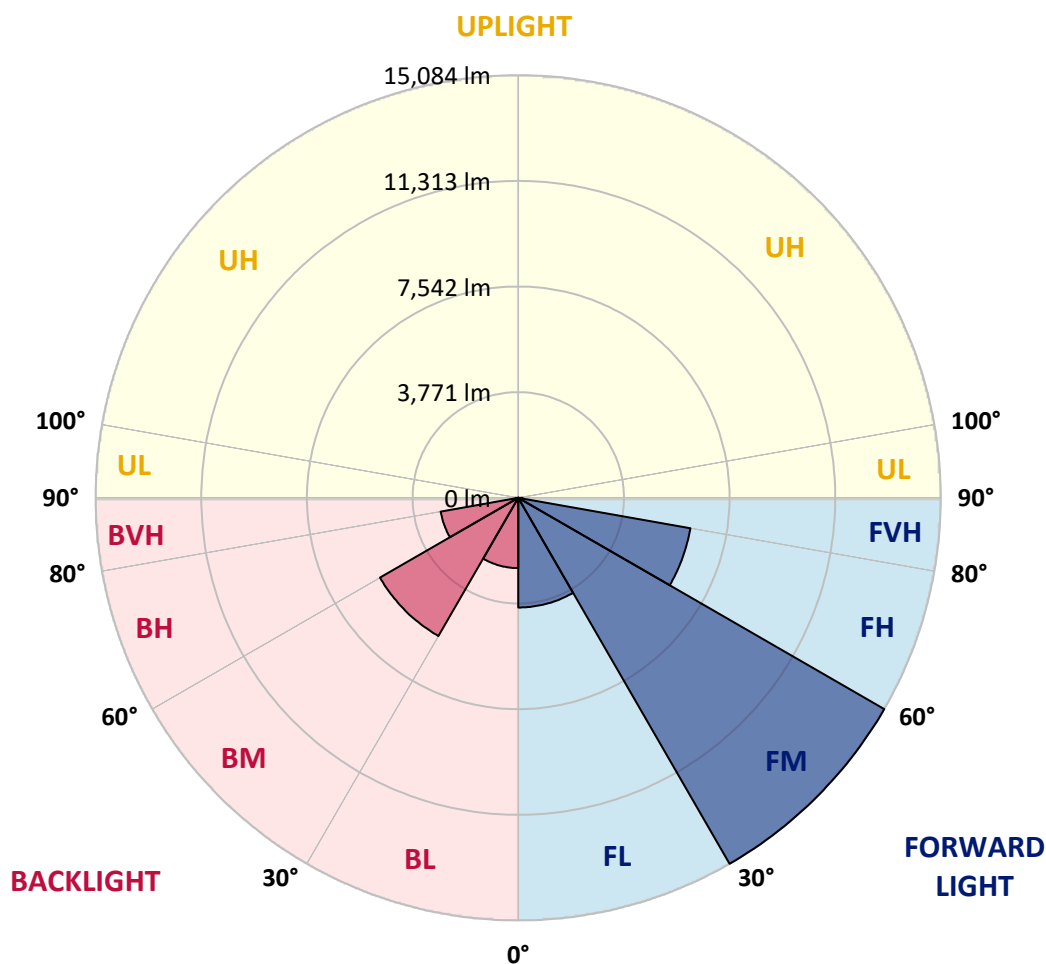
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3915.2	10.7			
FM	(30°-60°)	15083.8	41.3			
FH	(60°-80°)	6240.9	17.1			G3/7500
FVH	(80°-90°)	151.3	0.4			G2/225
BL	(0°-30°)	2507.4	6.9	B4/5000		
BM	(30°-60°)	5697.5	15.6	B4/8500		
BH	(60°-80°)	2814.2	7.7	B4/5000		G4/5000
BVH	(80°-90°)	99.7	0.3			G1/100
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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	5248.3	5248.3	5248.3	5248.3	5248.3	5248.3	5248.3	5248.3	5248.3	5248.3	5248.3
2.5°	5486.9	5486.9	5529.3	5529.3	5492.2	5433.8	5417.9	5354.3	5296.0	5296.0	5301.3
5°	6011.7	6006.4	6038.2	5995.8	5905.7	5789.0	5709.5	5571.7	5455.0	5417.9	5412.6
7.5°	6653.1	6647.8	6663.7	6594.8	6425.2	6234.3	6075.3	5852.6	5661.8	5582.3	5561.1
10°	7368.8	7363.5	7347.6	7231.0	7003.0	6706.2	6467.6	6160.1	5873.8	5746.6	5720.1
12.5°	8190.5	8179.9	8142.8	7973.2	7660.4	7278.7	6934.1	6536.5	6154.8	5979.9	5921.6
15°	9107.6	9091.7	9022.8	8816.1	8397.3	7914.9	7469.5	6960.6	6494.1	6266.1	6186.6
17.5°	10072.5	10072.5	9966.5	9659.0	9192.5	8593.4	8042.1	7395.3	6849.3	6568.3	6472.9
20°	11053.2	11047.9	10915.4	10544.3	9993.0	9303.8	8604.0	7893.6	7215.1	6875.8	6759.2
22.5°	12087.0	12076.4	11912.0	11487.9	10830.6	10051.3	9234.9	8386.7	7618.0	7209.8	7061.3
25°	13274.5	13258.6	13057.1	12537.6	11758.3	10878.3	9945.3	8964.5	8079.2	7580.9	7405.9
27.5°	14536.2	14515.0	14276.4	13672.1	12818.6	11758.3	10729.8	9632.5	8588.1	7994.4	7798.2
30°	15660.1	15644.2	15384.4	14764.1	13783.4	12633.0	11477.3	10300.4	9123.5	8434.4	8190.5
32.5°	16508.3	16508.3	16275.0	15665.4	14647.5	13470.6	12230.1	10931.3	9680.2	8906.2	8619.9
35°	17022.5	17038.4	16837.0	16349.2	15389.7	14260.5	13009.4	11673.5	10273.9	9409.8	9102.3
37.5°	17096.7	17149.7	17033.1	16704.4	15903.9	14917.9	13772.8	12389.2	10888.9	9918.7	9574.2
40°	16752.1	16789.2	16794.5	16667.3	16116.0	15389.7	14446.1	13147.2	11540.9	10454.2	10056.6
42.5°	16063.0	16089.5	16137.2	16174.3	15962.2	15596.4	14960.3	13852.3	12235.4	11000.2	10533.7
45°	15172.3	15167.0	15246.6	15405.6	15395.0	15479.8	15246.6	14493.8	12956.4	11620.5	11063.8
47.5°	13841.7	13815.2	14096.2	14456.7	14636.9	15034.5	15251.9	14997.4	13741.0	12304.3	11668.2
50°	11758.3	11731.8	12346.7	13195.0	13725.1	14329.4	14960.3	15299.6	14562.7	13073.0	12325.5
52.5°	9224.3	9197.8	9977.1	11461.4	12617.1	13497.1	14371.8	15368.5	15342.0	13931.8	13067.7
55°	6859.9	6838.7	7596.8	9203.1	11074.4	12532.3	13650.9	15188.2	16073.6	14917.9	13968.9
57.5°	4834.8	4824.2	5481.6	6812.2	9091.7	11355.4	12956.4	14838.4	16746.8	15988.7	14986.8
60°	3392.8	3376.9	3854.0	4882.5	6875.8	9579.5	12267.2	14371.8	17250.5	17043.7	16068.3
62.5°	2284.9	2274.3	2613.5	3472.4	4882.5	7374.1	11222.9	14059.1	17536.7	18104.0	17160.3
65°	1733.5	1728.2	1882.0	2353.8	3456.5	5296.0	9563.6	14022.0	17573.8	18899.2	18088.1
67.5°	1399.5	1404.8	1489.7	1760.0	2390.9	3763.9	7416.5	13788.7	17377.7	19169.5	18538.7
70°	1145.1	1145.1	1182.2	1362.4	1765.3	2539.3	5179.4	12728.4	16831.6	18464.5	18003.2
72.5°	874.7	880.0	996.6	1102.7	1330.6	1781.2	3318.6	10533.7	15543.4	16280.3	15930.4
75°	694.5	689.2	758.1	906.5	1033.8	1272.3	2035.7	7554.4	13226.8	12723.1	12500.5
77.5°	498.3	493.0	546.0	673.3	784.6	901.2	1214.0	3811.6	7193.9	6610.7	6446.4
80°	339.3	328.7	376.4	466.5	519.5	530.1	593.7	1463.2	3138.4	2958.1	2921.0
82.5°	174.9	174.9	201.4	265.1	270.4	275.7	265.1	471.8	1039.1	970.1	927.7
85°	68.9	68.9	74.2	90.1	90.1	95.4	95.4	121.9	111.3	106.0	100.7
87.5°	5.3	5.3	10.6	10.6	15.9	15.9	15.9	21.2	26.5	26.5	26.5
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°	5248.3	5248.3	5248.3	5248.3	5248.3	5248.3	5248.3	5248.3	5248.3	5248.3	5248.3
2.5°	5290.7	5269.5	5200.6	5184.7	5174.1	5158.2	5163.5	5126.4	5110.5	5115.8	5094.6
5°	5386.1	5349.0	5264.2	5227.1	5216.5	5200.6	5216.5	5190.0	5163.5	5174.1	5163.5
7.5°	5518.7	5465.6	5359.6	5322.5	5317.2	5301.3	5322.5	5301.3	5280.1	5290.7	5269.5
10°	5656.5	5587.6	5470.9	5433.8	5433.8	5428.5	5449.7	5417.9	5396.7	5402.0	5391.4
12.5°	5857.9	5767.8	5640.6	5608.8	5592.9	5608.8	5614.1	5571.7	5534.6	5539.9	5524.0
15°	6101.8	6001.1	5863.2	5815.5	5804.9	5799.6	5778.4	5725.4	5677.7	5672.4	5656.5
17.5°	6366.9	6239.6	6075.3	6027.6	5979.9	5964.0	5911.0	5842.0	5767.8	5767.8	5746.6
20°	6621.3	6478.2	6282.0	6213.1	6144.2	6080.6	5990.5	5879.1	5783.7	5767.8	5746.6
22.5°	6897.0	6727.4	6499.4	6398.7	6276.7	6149.5	5995.8	5847.3	5725.4	5698.9	5683.0
25°	7204.5	6992.4	6722.1	6573.6	6377.5	6181.3	5953.4	5762.5	5619.4	5577.0	5566.4
27.5°	7543.8	7289.3	6960.6	6743.3	6457.0	6149.5	5857.9	5630.0	5455.0	5402.0	5386.1
30°	7888.3	7586.2	7178.0	6859.9	6457.0	6048.8	5683.0	5417.9	5216.5	5142.3	5131.7
32.5°	8232.9	7893.6	7374.1	6923.5	6393.4	5879.1	5455.0	5142.3	4914.3	4824.2	4845.4
35°	8646.4	8232.9	7554.4	6950.0	6287.3	5672.4	5195.3	4829.5	4596.2	4516.7	4532.6
37.5°	9075.8	8572.2	7697.5	6928.8	6138.9	5439.1	4903.7	4548.5	4256.9	4119.1	4135.0
40°	9446.9	8879.7	7798.2	6854.6	5948.1	5174.1	4617.4	4150.9	3748.0	3615.5	3599.6
42.5°	9796.8	9107.6	7851.2	6743.3	5730.7	4866.6	4209.2	3610.2	3207.3	3043.0	3048.3
45°	10162.6	9330.3	7830.0	6594.8	5460.3	4506.1	3684.4	3080.1	2724.9	2576.4	2581.7
47.5°	10581.4	9568.9	7808.8	6435.8	5131.7	4039.6	3180.8	2613.5	2306.1	2200.0	2189.4
50°	11026.7	9833.9	7782.3	6239.6	4765.9	3520.1	2682.5	2178.8	1919.1	1850.2	1834.3
52.5°	11530.3	10120.2	7766.4	6006.4	4325.9	2968.7	2237.2	1797.1	1622.2	1574.5	1569.2
55°	12134.7	10454.2	7787.6	5725.4	3795.7	2449.2	1860.8	1548.0	1431.4	1404.8	1399.5
57.5°	12871.6	10883.6	7851.2	5396.7	3239.1	1998.6	1585.1	1394.2	1320.0	1298.8	1298.8
60°	13672.1	11371.3	7967.9	5025.6	2682.5	1648.7	1404.8	1272.3	1240.5	1267.0	1267.0
62.5°	14536.2	11943.8	8174.6	4575.0	2162.9	1394.2	1261.7	1171.6	1150.4	1203.4	1208.7
65°	15336.7	12500.5	8307.1	4034.3	1717.6	1208.7	1150.4	1070.9	1081.5	1134.5	1129.2
67.5°	15829.7	12961.7	8121.6	3355.7	1362.4	1070.9	1033.8	964.8	991.3	1033.8	1039.1
70°	15527.5	12701.9	7204.5	2534.0	1065.6	933.0	906.5	864.1	885.3	938.3	959.5
72.5°	14048.5	11376.6	5603.5	1712.3	858.8	784.6	795.2	774.0	800.5	848.2	895.9
75°	11403.1	8598.7	3758.6	1097.4	678.6	668.0	683.9	668.0	678.6	726.3	752.8
77.5°	5953.4	4193.3	1871.4	683.9	503.6	519.5	546.0	551.3	583.1	593.7	604.3
80°	2777.9	1887.3	779.3	381.7	334.0	365.8	418.8	424.1	434.7	450.6	455.9
82.5°	906.5	567.2	360.5	206.8	190.8	206.8	270.4	323.4	328.7	360.5	360.5
85°	95.4	58.3	79.5	84.8	74.2	90.1	121.9	116.6	53.0	31.8	31.8
87.5°	26.5	21.2	26.5	26.5	21.2	21.2	15.9	5.3	0.0	0.0	0.0
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)