

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: P841940

Luminaire Tested: **ARCH4-250-722-U-T2U**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841940
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-250-722-U-T2U
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 975mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32287 lumens
Efficiency: N/A
Efficacy: 129.4 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): 249.5
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



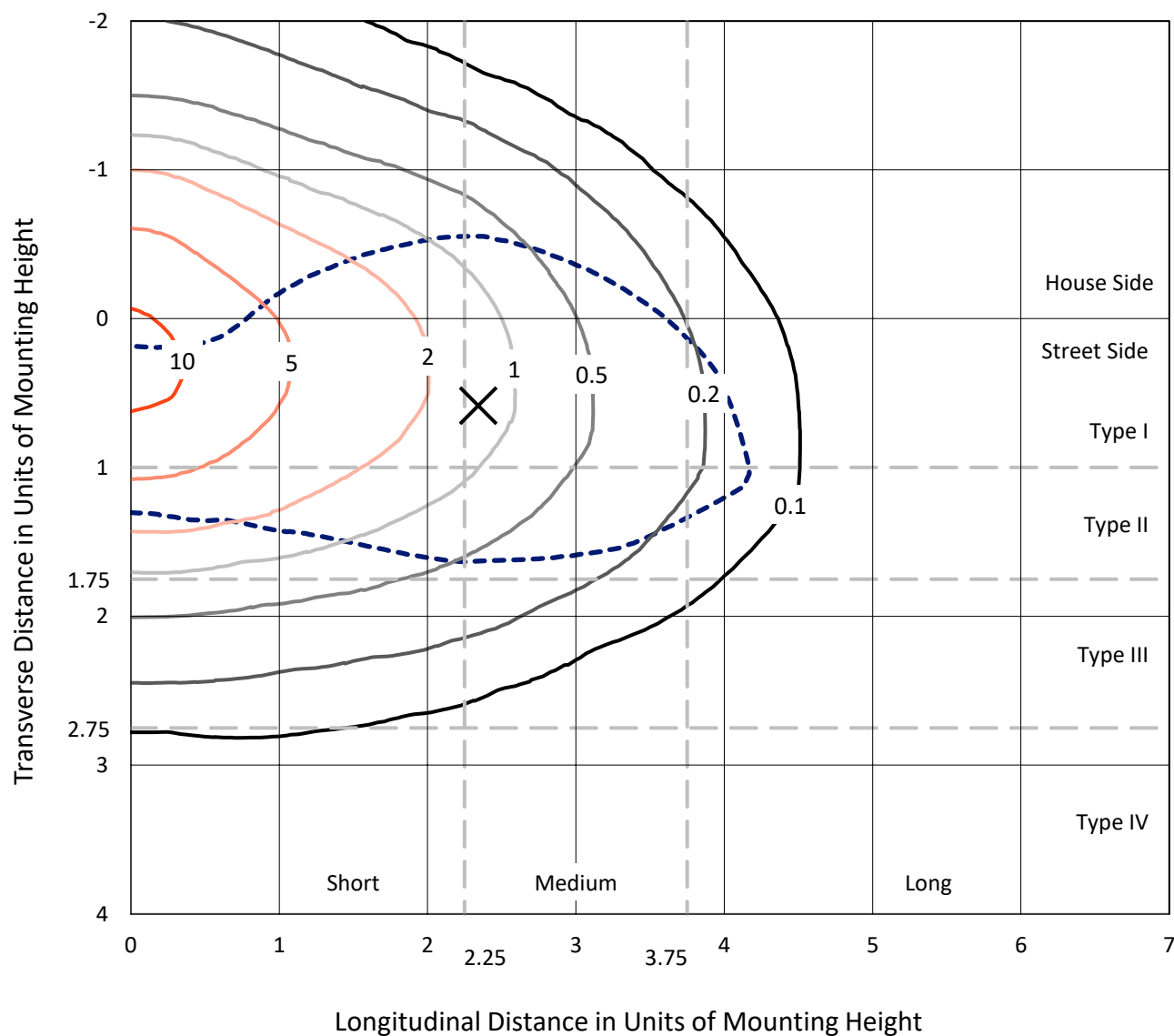
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

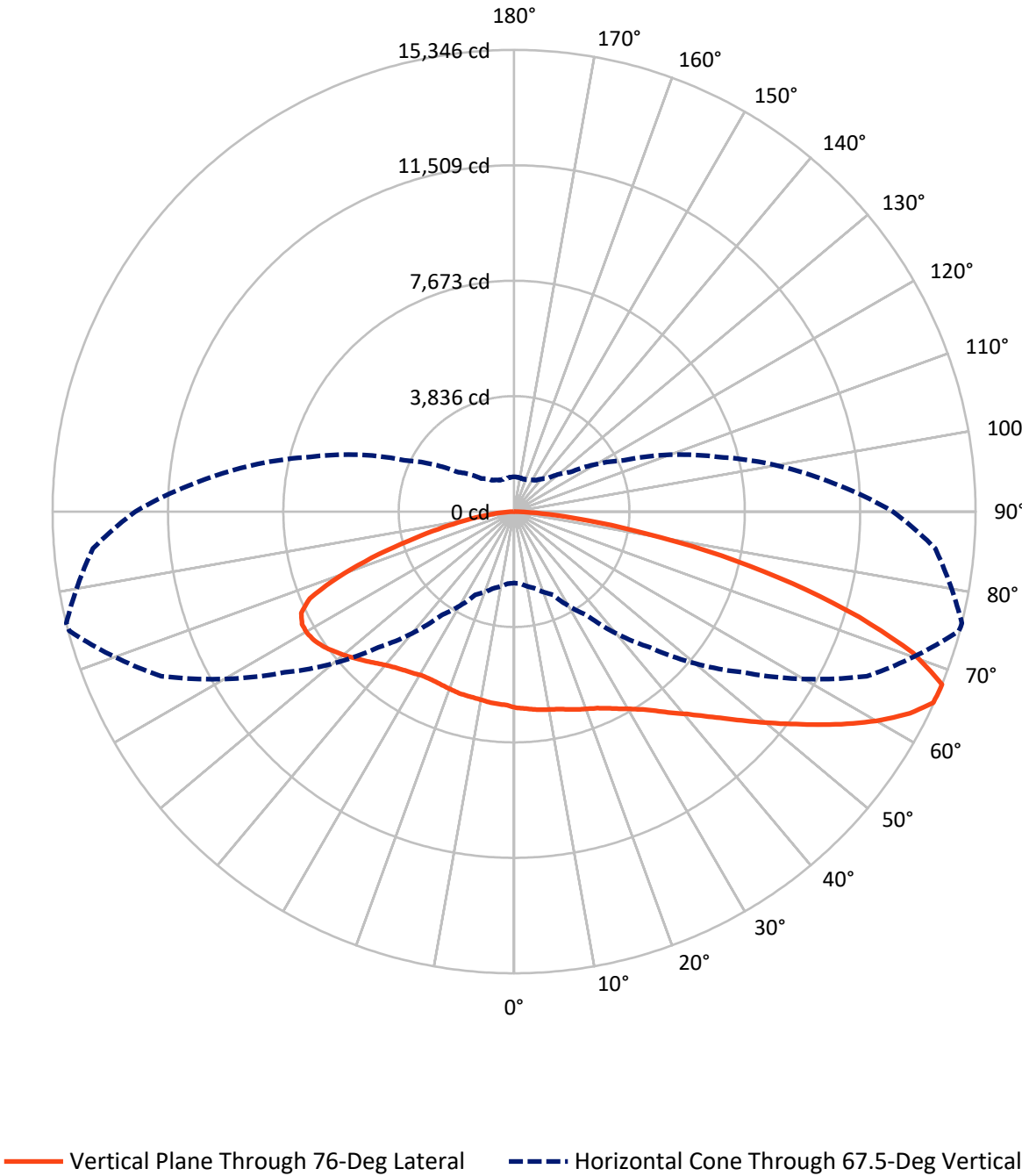
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.8 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	10909.9	0.0	10909.9
	% Fixture	33.8	0.0	33.8
Street Side	Lumens	21377.1	0.0	21377.1
	% Fixture	66.2	0.0	66.2
Total	Lumens	32287.0	0.0	32287.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	628.9	1.9
10°-20°	1922.6	6.0
20°-30°	3266.6	10.1
30°-40°	4648.0	14.4
40°-50°	5870.2	18.2
50°-60°	6355.6	19.7
60°-70°	5911.4	18.3
70°-80°	3175.0	9.8
80°-90°	508.8	1.6
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°	32287.0	100.0
0°-180°	32287.0	100.0

Coefficient of Utilization



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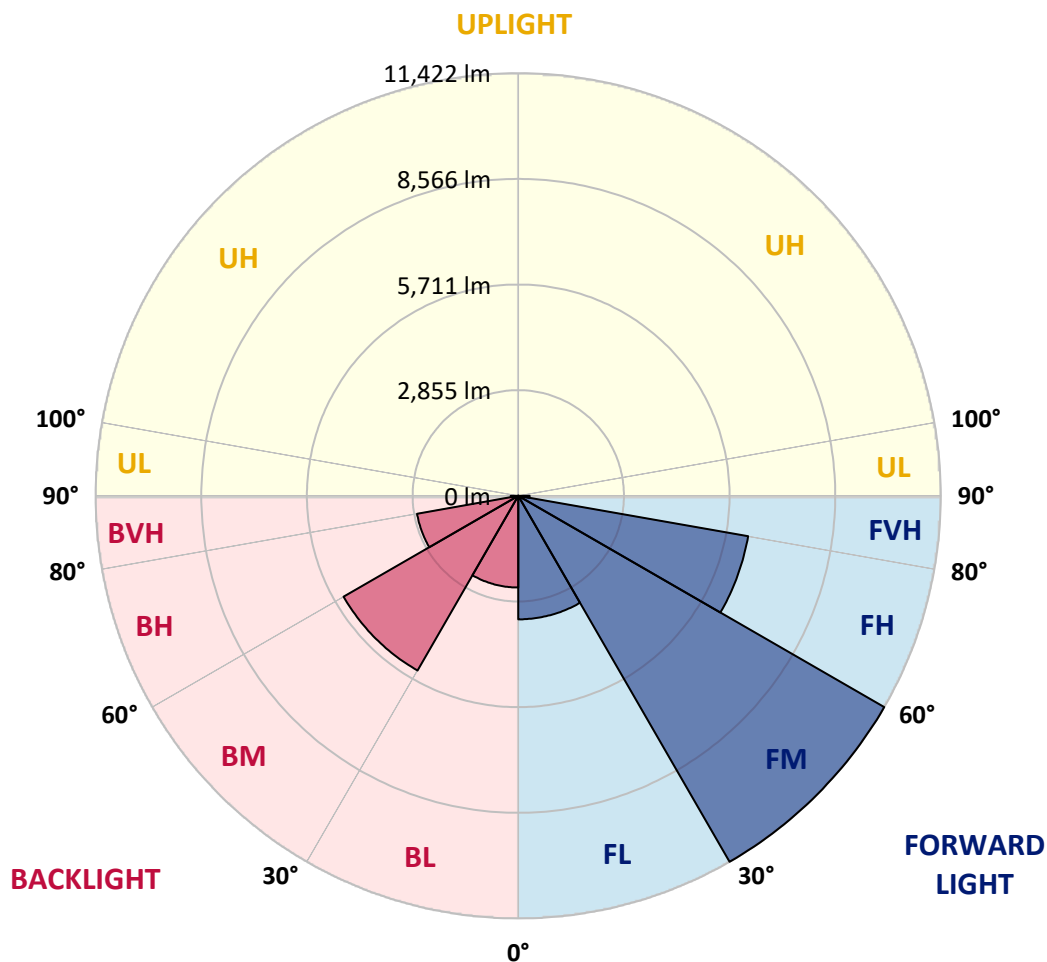
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3338.8	10.3			
FM	(30°-60°)	11421.9	35.4			
FH	(60°-80°)	6308.6	19.5			G3/7500
FVH	(80°-90°)	307.7	1.0			G3/500
BL	(0°-30°)	2479.3	7.7	B3/2500		
BM	(30°-60°)	5451.8	16.9	B4/8500		
BH	(60°-80°)	2777.8	8.6	B4/5000		G4/5000
BVH	(80°-90°)	201.0	0.6			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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	6521.9	6521.9	6521.9	6521.9	6521.9	6521.9	6521.9	6521.9	6521.9	6521.9	6521.9
2.5°	6719.7	6707.7	6659.8	6665.8	6665.8	6659.8	6587.8	6557.9	6557.9	6551.9	6485.9
5°	6959.5	6941.5	6887.6	6875.6	6851.6	6821.6	6707.7	6641.8	6611.8	6605.8	6515.9
7.5°	7241.2	7217.3	7151.3	7115.3	7055.4	6977.5	6833.6	6731.7	6659.8	6653.8	6527.9
10°	7523.0	7499.0	7421.1	7355.1	7271.2	7145.3	6959.5	6809.6	6695.7	6683.8	6533.9
12.5°	7858.7	7834.7	7738.8	7654.8	7529.0	7361.1	7115.3	6911.5	6755.7	6737.7	6551.9
15°	8212.3	8176.4	8080.4	7984.5	7828.7	7612.9	7319.2	7049.4	6851.6	6821.6	6605.8
17.5°	8506.0	8458.1	8380.2	8284.3	8110.4	7858.7	7523.0	7187.3	6941.5	6917.5	6659.8
20°	8757.8	8721.8	8637.9	8548.0	8362.2	8086.4	7714.8	7325.2	7025.4	6995.5	6701.7
22.5°	8997.6	8949.6	8901.7	8835.7	8631.9	8326.2	7936.6	7493.0	7133.3	7097.4	6755.7
25°	9273.3	9219.4	9201.4	9165.4	8925.7	8613.9	8206.3	7702.8	7283.2	7241.2	6851.6
27.5°	9615.0	9555.1	9519.1	9519.1	9231.4	8907.7	8494.1	7948.6	7457.0	7421.1	6971.5
30°	9974.7	9902.7	9848.8	9848.8	9525.1	9201.4	8775.8	8194.3	7654.8	7612.9	7127.3
32.5°	10292.4	10220.4	10160.5	10154.5	9818.8	9495.1	9069.5	8464.1	7894.6	7840.7	7319.2
35°	10538.1	10472.2	10418.3	10430.2	10112.5	9794.8	9399.2	8823.8	8194.3	8134.4	7570.9
37.5°	10688.0	10664.0	10634.1	10676.0	10382.3	10082.6	9740.9	9171.4	8536.0	8482.1	7882.6
40°	10765.9	10748.0	10867.8	10921.8	10610.1	10340.3	10082.6	9531.1	8907.7	8847.7	8242.3
42.5°	10879.8	11029.7	11077.6	11065.7	10777.9	10538.1	10394.3	9920.7	9345.3	9291.3	8673.9
45°	10472.2	10436.2	10700.0	10843.9	10789.9	10664.0	10688.0	10388.3	9854.8	9800.8	9171.4
47.5°	9926.7	9878.8	10028.6	10382.3	10592.1	10712.0	10951.8	10873.8	10442.2	10394.3	9752.9
50°	8775.8	8841.7	9399.2	9872.8	10286.4	10700.0	11173.6	11395.3	11089.6	11041.7	10376.3
52.5°	7499.0	7564.9	8146.4	9237.4	9914.7	10610.1	11335.4	11916.9	11791.0	11737.0	11041.7
55°	6569.9	6713.7	7373.1	8164.4	9387.2	10328.3	11431.3	12450.4	12546.3	12498.3	11767.0
57.5°	5646.7	5754.6	6252.2	6953.5	8667.9	9836.8	11425.3	12947.9	13337.5	13289.6	12504.3
60°	4561.7	4699.6	5095.2	5850.5	7708.8	9249.4	11257.5	13337.5	14098.8	14062.9	13217.6
62.5°	3818.4	3860.4	4142.1	4795.5	6473.9	8506.0	10879.8	13547.3	14788.2	14764.2	13859.0
65°	3075.1	3081.1	3338.9	3884.4	5281.1	7582.9	10238.4	13469.4	15309.7	15321.7	14320.6
67.5°	2373.8	2403.8	2637.5	3051.1	4196.1	6384.0	9321.3	12941.9	15315.7	15345.7	14056.9
70°	1642.5	1666.4	2020.1	2421.7	3243.0	5089.2	8080.4	11545.2	14056.9	14080.8	12600.2
72.5°	1156.9	1168.9	1546.6	1936.2	2535.6	3836.4	6096.3	9549.1	11982.8	12000.8	10598.1
75°	863.2	875.2	1091.0	1468.6	1942.2	2655.5	4166.1	7313.2	9573.1	9573.1	8368.2
77.5°	611.4	617.4	707.3	1013.1	1294.8	1792.3	2505.7	4789.5	7025.4	7037.4	6096.3
80°	413.6	419.6	461.6	683.4	809.2	971.1	1360.7	2511.7	4429.9	4447.8	3872.4
82.5°	215.8	227.8	257.8	347.7	407.6	539.5	701.3	1276.8	2451.7	2499.7	2325.8
85°	83.9	83.9	95.9	113.9	149.9	209.8	323.7	485.5	1109.0	1144.9	1025.0
87.5°	30.0	30.0	36.0	36.0	42.0	48.0	53.9	71.9	125.9	125.9	119.9
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°	6521.9	6521.9	6521.9	6521.9	6521.9	6521.9	6521.9	6521.9	6521.9	6521.9	6521.9
2.5°	6462.0	6462.0	6432.0	6444.0	6438.0	6426.0	6414.0	6432.0	6414.0	6372.0	6366.0
5°	6473.9	6462.0	6414.0	6408.0	6390.0	6366.0	6336.1	6348.1	6318.1	6282.1	6276.1
7.5°	6479.9	6456.0	6390.0	6366.0	6330.1	6282.1	6234.2	6234.2	6192.2	6156.2	6150.3
10°	6468.0	6438.0	6348.1	6300.1	6234.2	6162.2	6096.3	6078.3	6030.4	5988.4	5988.4
12.5°	6473.9	6432.0	6318.1	6240.2	6150.3	6060.3	5976.4	5952.4	5910.5	5868.5	5862.5
15°	6509.9	6450.0	6306.1	6204.2	6072.3	5970.4	5880.5	5862.5	5826.6	5796.6	5796.6
17.5°	6545.9	6468.0	6288.1	6144.3	5982.4	5868.5	5784.6	5784.6	5760.6	5742.6	5742.6
20°	6563.9	6473.9	6252.2	6060.3	5874.5	5754.6	5676.7	5688.7	5682.7	5676.7	5676.7
22.5°	6605.8	6485.9	6222.2	5982.4	5760.6	5634.7	5562.8	5580.8	5574.8	5574.8	5580.8
25°	6671.8	6515.9	6198.2	5910.5	5652.7	5514.8	5436.9	5448.9	5448.9	5448.9	5448.9
27.5°	6761.7	6575.9	6192.2	5844.5	5544.8	5389.0	5293.1	5293.1	5269.1	5275.1	5281.1
30°	6899.5	6689.7	6204.2	5784.6	5430.9	5233.1	5119.2	5101.2	5095.2	5107.2	5113.2
32.5°	7067.4	6845.6	6276.1	5742.6	5311.0	5059.3	4915.4	4909.4	4891.4	4891.4	4891.4
35°	7277.2	6995.5	6342.1	5736.6	5191.1	4873.4	4717.6	4699.6	4657.6	4639.7	4639.7
37.5°	7546.9	7229.2	6420.0	5694.7	5089.2	4693.6	4507.8	4447.8	4399.9	4393.9	4393.9
40°	7876.6	7493.0	6533.9	5646.7	4981.3	4507.8	4262.0	4160.1	4166.1	4190.1	4190.1
42.5°	8266.3	7816.7	6677.8	5622.7	4825.5	4316.0	3974.3	3854.4	3896.4	3920.3	3926.3
45°	8721.8	8200.3	6839.6	5592.8	4681.6	4100.2	3668.6	3518.7	3536.7	3542.7	3548.7
47.5°	9249.4	8625.9	7007.4	5568.8	4519.8	3830.4	3332.9	3135.1	3129.1	3093.1	3105.1
50°	9800.8	9075.5	7181.3	5526.8	4322.0	3512.7	2979.2	2745.4	2697.5	2643.5	2649.5
52.5°	10388.3	9537.1	7343.1	5460.9	4076.2	3189.0	2643.5	2391.8	2295.9	2235.9	2247.9
55°	11035.7	10010.6	7499.0	5359.0	3818.4	2865.3	2343.8	2086.0	1966.2	1918.2	1924.2
57.5°	11629.1	10466.2	7612.9	5233.1	3536.7	2571.6	2080.1	1828.3	1750.4	1744.4	1750.4
60°	12204.6	10849.9	7660.8	5059.3	3249.0	2301.8	1834.3	1642.5	1588.5	1618.5	1624.5
62.5°	12690.1	11095.6	7636.9	4825.5	2955.2	2044.1	1636.5	1498.6	1462.6	1522.6	1528.6
65°	12971.9	11173.6	7469.0	4489.8	2637.5	1792.3	1450.6	1300.8	1282.8	1318.8	1336.8
67.5°	12600.2	10688.0	7013.4	4028.2	2283.9	1558.5	1270.8	1150.9	1121.0	1150.9	1150.9
70°	11167.6	9261.3	5934.5	3296.9	1894.2	1330.8	1103.0	1019.0	995.1	1019.0	1013.1
72.5°	9303.3	7702.8	4675.6	2571.6	1492.6	1121.0	959.1	881.2	857.2	833.2	821.2
75°	7217.3	5850.5	3392.8	1888.2	1126.9	899.2	803.2	731.3	671.4	695.3	683.4
77.5°	5287.1	4106.2	2403.8	1306.8	809.2	695.3	629.4	575.5	533.5	581.5	575.5
80°	3404.8	2655.5	1606.5	875.2	557.5	485.5	461.6	431.6	473.6	617.4	629.4
82.5°	2080.1	1684.4	959.1	569.5	365.7	323.7	299.7	299.7	485.5	533.5	539.5
85°	929.1	893.2	521.5	293.7	203.8	185.8	167.8	215.8	197.8	143.9	149.9
87.5°	149.9	155.9	113.9	101.9	77.9	77.9	59.9	42.0	30.0	18.0	18.0
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)