

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: P841814

Luminaire Tested: **ARCH4-230-730-U-T2U**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841814
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: ARCH4-230-730-U-T2U
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 905mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34784 lumens
Efficiency: N/A
Efficacy: 150.4 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): 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

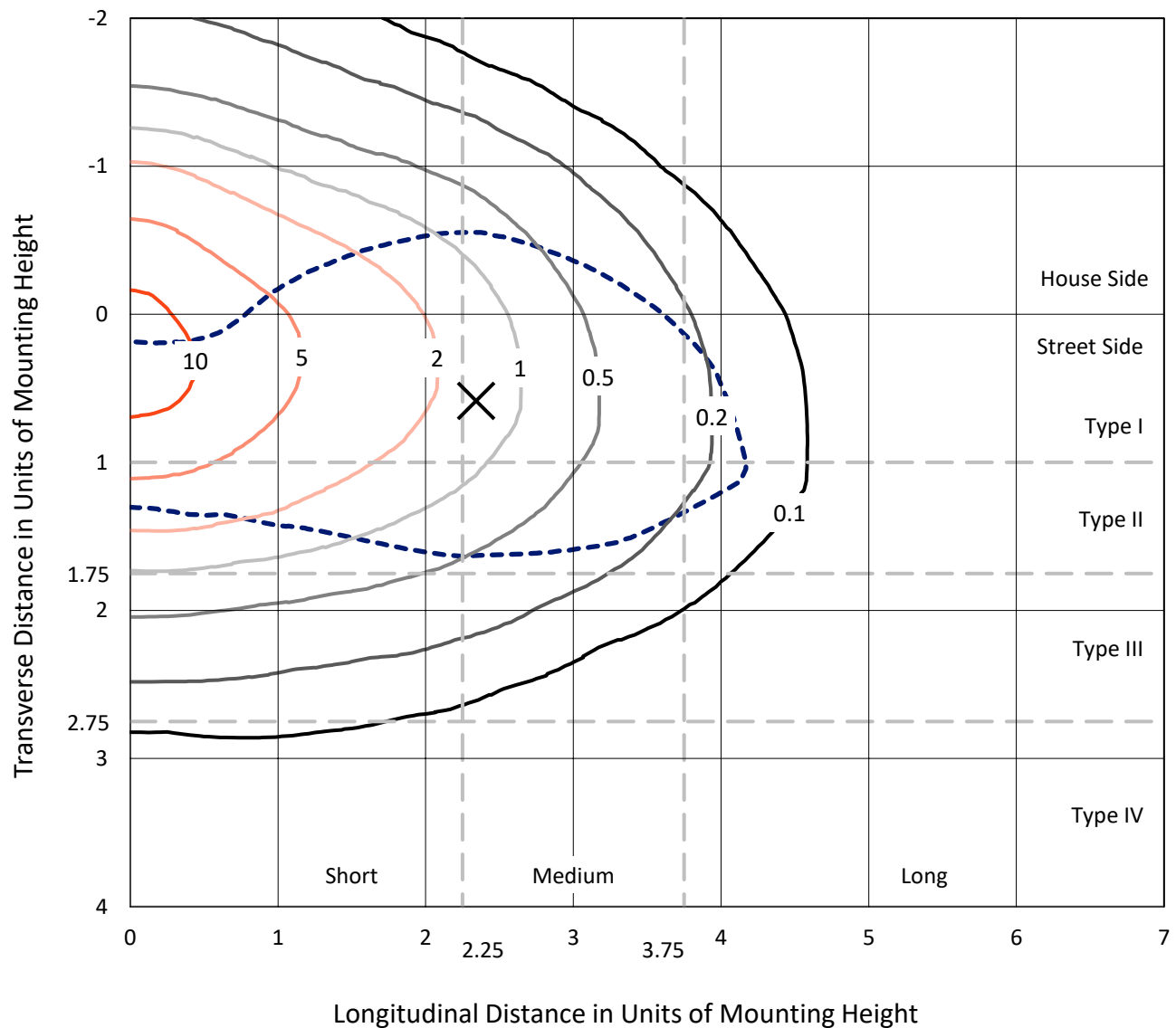


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Iso-Footcandle Lines of Horizontal Illumination

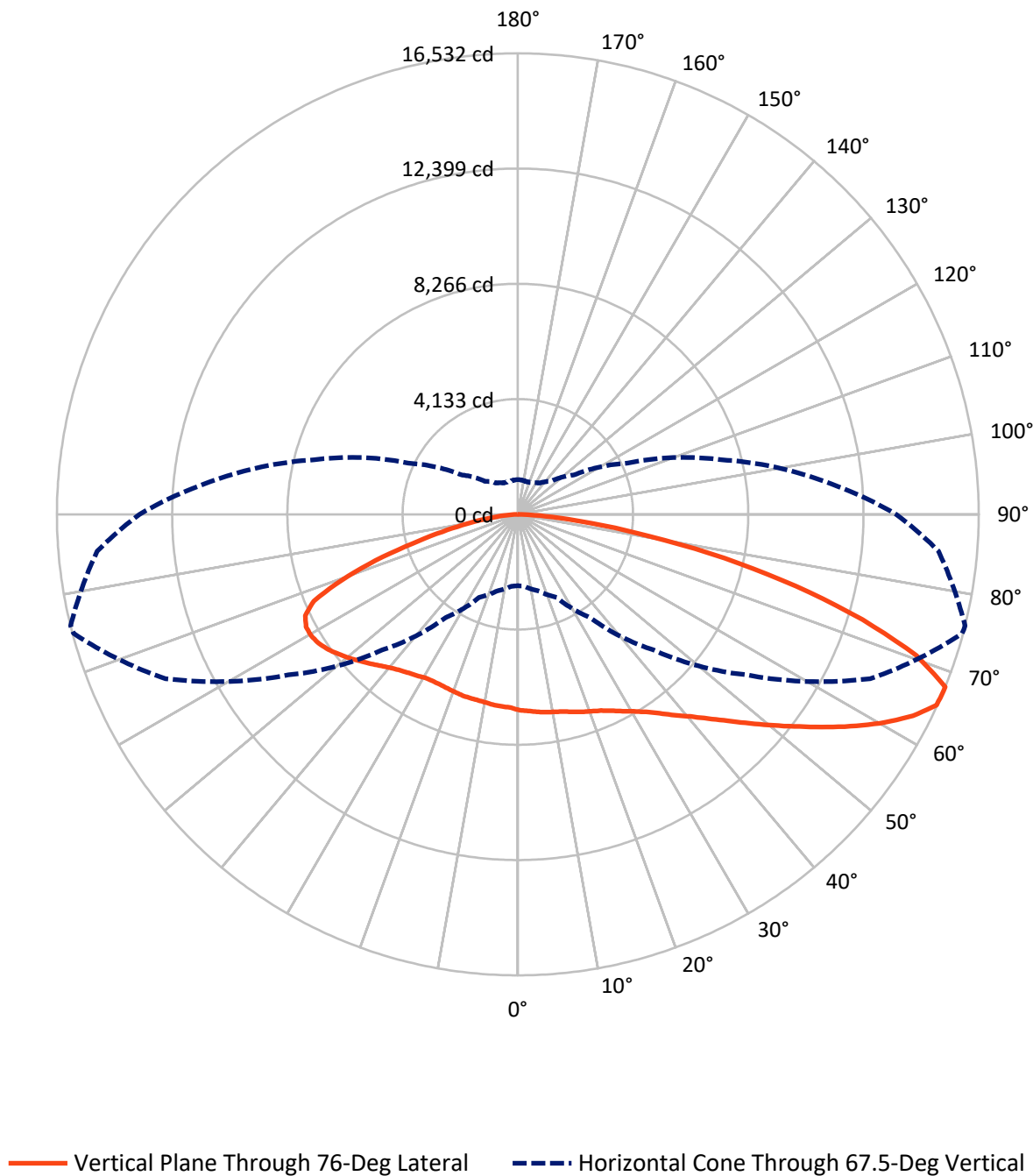
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.7 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	11753.7	0.0	11753.7
	% Fixture	33.8	0.0	33.8
Street Side	Lumens	23030.3	0.0	23030.3
	% Fixture	66.2	0.0	66.2
Total	Lumens	34784.0	0.0	34784.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	677.5	1.9
10°-20°	2071.3	6.0
20°-30°	3519.3	10.1
30°-40°	5007.4	14.4
40°-50°	6324.2	18.2
50°-60°	6847.1	19.7
60°-70°	6368.6	18.3
70°-80°	3420.5	9.8
80°-90°	548.1	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°	34784.0	100.0
0°-180°	34784.0	100.0

Coefficient of Utilization



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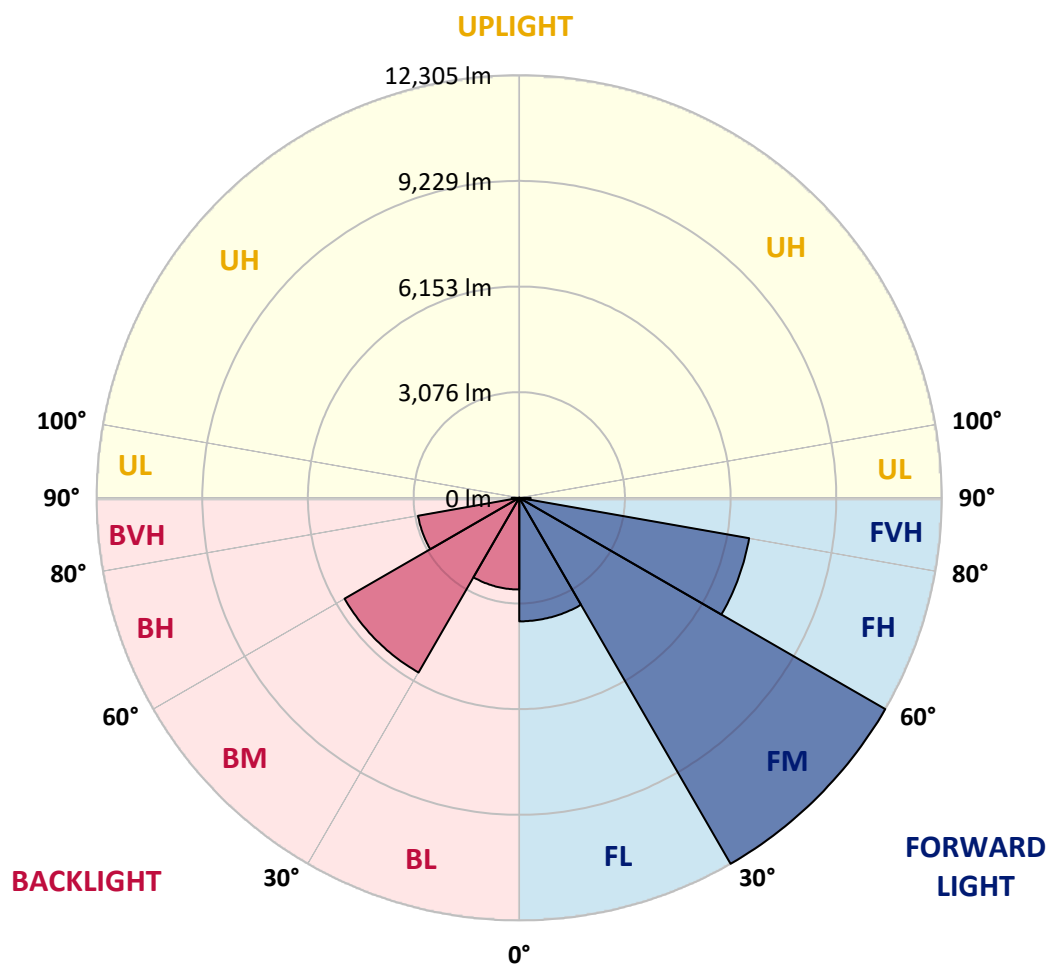
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3597.0	10.3			
FM	(30°-60°)	12305.3	35.4			
FH	(60°-80°)	6796.5	19.5			G3/7500
FVH	(80°-90°)	331.5	1.0			G3/500
BL	(0°-30°)	2671.1	7.7	B4/5000		
BM	(30°-60°)	5873.5	16.9	B4/8500		
BH	(60°-80°)	2992.6	8.6	B4/5000		G4/5000
BVH	(80°-90°)	216.5	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°	7026.3	7026.3	7026.3	7026.3	7026.3	7026.3	7026.3	7026.3	7026.3	7026.3	7026.3
2.5°	7239.4	7226.5	7174.8	7181.3	7181.3	7174.8	7097.3	7065.0	7065.0	7058.6	6987.5
5°	7497.7	7478.4	7420.2	7407.3	7381.5	7349.2	7226.5	7155.5	7123.2	7116.7	7019.8
7.5°	7801.2	7775.4	7704.4	7665.6	7601.1	7517.1	7362.1	7252.3	7174.8	7168.4	7032.7
10°	8104.8	8078.9	7995.0	7924.0	7833.5	7697.9	7497.7	7336.3	7213.6	7200.7	7039.2
12.5°	8466.4	8440.6	8337.3	8246.9	8111.2	7930.4	7665.6	7446.1	7278.2	7258.8	7058.6
15°	8847.4	8808.7	8705.4	8602.0	8434.1	8201.6	7885.2	7594.6	7381.5	7349.2	7116.7
17.5°	9163.9	9112.2	9028.3	8924.9	8737.7	8466.4	8104.8	7743.1	7478.4	7452.5	7174.8
20°	9435.1	9396.4	9306.0	9209.1	9008.9	8711.8	8311.4	7891.7	7568.8	7536.5	7220.0
22.5°	9693.4	9641.8	9590.1	9519.1	9299.5	8970.1	8550.4	8072.5	7685.0	7646.3	7278.2
25°	9990.5	9932.4	9913.0	9874.3	9615.9	9280.1	8841.0	8298.5	7846.5	7801.2	7381.5
27.5°	10358.6	10294.0	10255.3	10255.3	9945.3	9596.6	9151.0	8563.3	8033.7	7995.0	7510.6
30°	10746.1	10668.6	10610.5	10610.5	10261.7	9913.0	9454.5	8828.1	8246.9	8201.6	7678.5
32.5°	11088.4	11010.9	10946.3	10939.8	10578.2	10229.5	9770.9	9118.7	8505.2	8447.0	7885.2
35°	11353.1	11282.1	11224.0	11236.9	10894.6	10552.4	10126.1	9506.2	8828.1	8763.5	8156.4
37.5°	11514.6	11488.8	11456.5	11501.7	11185.2	10862.3	10494.2	9880.7	9196.2	9138.1	8492.3
40°	11598.5	11579.2	11708.3	11766.5	11430.6	11140.0	10862.3	10268.2	9596.6	9532.0	8879.7
42.5°	11721.2	11882.7	11934.4	11921.4	11611.5	11353.1	11198.2	10688.0	10068.0	10009.9	9344.7
45°	11282.1	11243.4	11527.5	11682.5	11624.4	11488.8	11514.6	11191.7	10616.9	10558.8	9880.7
47.5°	10694.4	10642.8	10804.2	11185.2	11411.3	11540.4	11798.7	11714.8	11249.8	11198.2	10507.1
50°	9454.5	9525.5	10126.1	10636.3	11081.9	11527.5	12037.7	12276.6	11947.3	11895.6	11178.8
52.5°	8078.9	8150.0	8776.4	9951.8	10681.5	11430.6	12212.1	12838.5	12702.9	12644.7	11895.6
55°	7078.0	7232.9	7943.3	8795.8	10113.2	11127.1	12315.4	13413.2	13516.6	13464.9	12677.0
57.5°	6083.4	6199.7	6735.7	7491.3	9338.3	10597.6	12308.9	13949.3	14369.0	14317.4	13471.4
60°	4914.5	5063.1	5489.3	6303.0	8305.0	9964.7	12128.1	14369.0	15189.2	15150.4	14239.9
62.5°	4113.7	4158.9	4462.5	5166.4	6974.6	9163.9	11721.2	14595.1	15931.9	15906.0	14930.9
65°	3312.9	3319.4	3597.1	4184.8	5689.5	8169.4	11030.2	14511.1	16493.7	16506.6	15428.1
67.5°	2557.4	2589.7	2841.5	3287.1	4520.6	6877.8	10042.2	13942.8	16500.2	16532.4	15144.0
70°	1769.5	1795.3	2176.3	2609.0	3493.8	5482.8	8705.4	12438.1	15144.0	15169.8	13574.7
72.5°	1246.4	1259.3	1666.2	2085.9	2731.7	4133.1	6567.8	10287.6	12909.5	12928.9	11417.7
75°	930.0	942.9	1175.4	1582.2	2092.4	2860.9	4488.3	7878.7	10313.4	10313.4	9015.4
77.5°	658.7	665.2	762.0	1091.4	1394.9	1930.9	2699.4	5159.9	7568.8	7581.7	6567.8
80°	445.6	452.1	497.3	736.2	871.8	1046.2	1466.0	2705.9	4772.5	4791.8	4171.9
82.5°	232.5	245.4	277.7	374.6	439.1	581.2	755.6	1375.6	2641.3	2693.0	2505.7
85°	90.4	90.4	103.3	122.7	161.4	226.0	348.7	523.1	1194.7	1233.5	1104.3
87.5°	32.3	32.3	38.7	38.7	45.2	51.7	58.1	77.5	135.6	135.6	129.2
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°	7026.3	7026.3	7026.3	7026.3	7026.3	7026.3	7026.3	7026.3	7026.3	7026.3	7026.3
2.5°	6961.7	6961.7	6929.4	6942.3	6935.9	6923.0	6910.0	6929.4	6910.0	6864.8	6858.4
5°	6974.6	6961.7	6910.0	6903.6	6884.2	6858.4	6826.1	6839.0	6806.7	6768.0	6761.5
7.5°	6981.1	6955.3	6884.2	6858.4	6819.6	6768.0	6716.3	6716.3	6671.1	6632.4	6625.9
10°	6968.2	6935.9	6839.0	6787.3	6716.3	6638.8	6567.8	6548.4	6496.7	6451.5	6451.5
12.5°	6974.6	6929.4	6806.7	6722.8	6625.9	6529.0	6438.6	6412.8	6367.6	6322.4	6315.9
15°	7013.4	6948.8	6793.8	6684.0	6541.9	6432.2	6335.3	6315.9	6277.2	6244.9	6244.9
17.5°	7052.1	6968.2	6774.4	6619.4	6445.1	6322.4	6232.0	6232.0	6206.1	6186.8	6186.8
20°	7071.5	6974.6	6735.7	6529.0	6328.8	6199.7	6115.7	6128.6	6122.2	6115.7	6115.7
22.5°	7116.7	6987.5	6703.4	6445.1	6206.1	6070.5	5993.0	6012.4	6005.9	6005.9	6012.4
25°	7187.7	7019.8	6677.6	6367.6	6089.9	5941.3	5857.4	5870.3	5870.3	5870.3	5870.3
27.5°	7284.6	7084.4	6671.1	6296.5	5973.6	5805.7	5702.4	5702.4	5676.6	5683.0	5689.5
30°	7433.1	7207.1	6684.0	6232.0	5850.9	5637.8	5515.1	5495.7	5489.3	5502.2	5508.7
32.5°	7614.0	7375.0	6761.5	6186.8	5721.8	5450.5	5295.6	5289.1	5269.7	5269.7	5269.7
35°	7840.0	7536.5	6832.6	6180.3	5592.6	5250.3	5082.4	5063.1	5017.9	4998.5	4998.5
37.5°	8130.6	7788.3	6916.5	6135.1	5482.8	5056.6	4856.4	4791.8	4740.2	4733.7	4733.7
40°	8485.8	8072.5	7039.2	6083.4	5366.6	4856.4	4591.6	4481.8	4488.3	4514.1	4514.1
42.5°	8905.6	8421.2	7194.2	6057.6	5198.7	4649.8	4281.6	4152.5	4197.7	4223.5	4230.0
45°	9396.4	8834.5	7368.6	6025.3	5043.7	4417.3	3952.3	3790.8	3810.2	3816.7	3823.1
47.5°	9964.7	9293.0	7549.4	5999.5	4869.3	4126.7	3590.6	3377.5	3371.1	3332.3	3345.2
50°	10558.8	9777.4	7736.7	5954.3	4656.2	3784.4	3209.6	2957.8	2906.1	2848.0	2854.4
52.5°	11191.7	10274.7	7911.0	5883.2	4391.4	3435.6	2848.0	2576.7	2473.4	2408.8	2421.7
55°	11889.2	10784.8	8078.9	5773.4	4113.7	3086.9	2525.1	2247.4	2118.2	2066.6	2073.0
57.5°	12528.5	11275.6	8201.6	5637.8	3810.2	2770.5	2240.9	1969.7	1885.7	1879.3	1885.7
60°	13148.5	11689.0	8253.3	5450.5	3500.2	2479.9	1976.1	1769.5	1711.4	1743.7	1750.1
62.5°	13671.6	11953.7	8227.5	5198.7	3183.8	2202.2	1763.0	1614.5	1575.7	1640.3	1646.8
65°	13975.1	12037.7	8046.7	4837.0	2841.5	1930.9	1562.8	1401.4	1382.0	1420.8	1440.1
67.5°	13574.7	11514.6	7555.8	4339.8	2460.5	1679.1	1369.1	1239.9	1207.6	1239.9	1239.9
70°	12031.2	9977.6	6393.4	3551.9	2040.7	1433.7	1188.3	1097.9	1072.0	1097.9	1091.4
72.5°	10022.8	8298.5	5037.2	2770.5	1608.0	1207.6	1033.3	949.3	923.5	897.7	884.7
75°	7775.4	6303.0	3655.2	2034.3	1214.1	968.7	865.4	787.9	723.3	749.1	736.2
77.5°	5695.9	4423.7	2589.7	1407.8	871.8	749.1	678.1	620.0	574.8	626.4	620.0
80°	3668.1	2860.9	1730.7	942.9	600.6	523.1	497.3	465.0	510.2	665.2	678.1
82.5°	2240.9	1814.7	1033.3	613.5	393.9	348.7	322.9	322.9	523.1	574.8	581.2
85°	1001.0	962.2	561.8	316.4	219.6	200.2	180.8	232.5	213.1	155.0	161.4
87.5°	161.4	167.9	122.7	109.8	84.0	84.0	64.6	45.2	32.3	19.4	19.4
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)