

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: P476988

Luminaire Tested: **IFLD-S-SA3C-740-U-T2R**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P476988
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3C-740-U-T2R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens
Light Source: (48) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

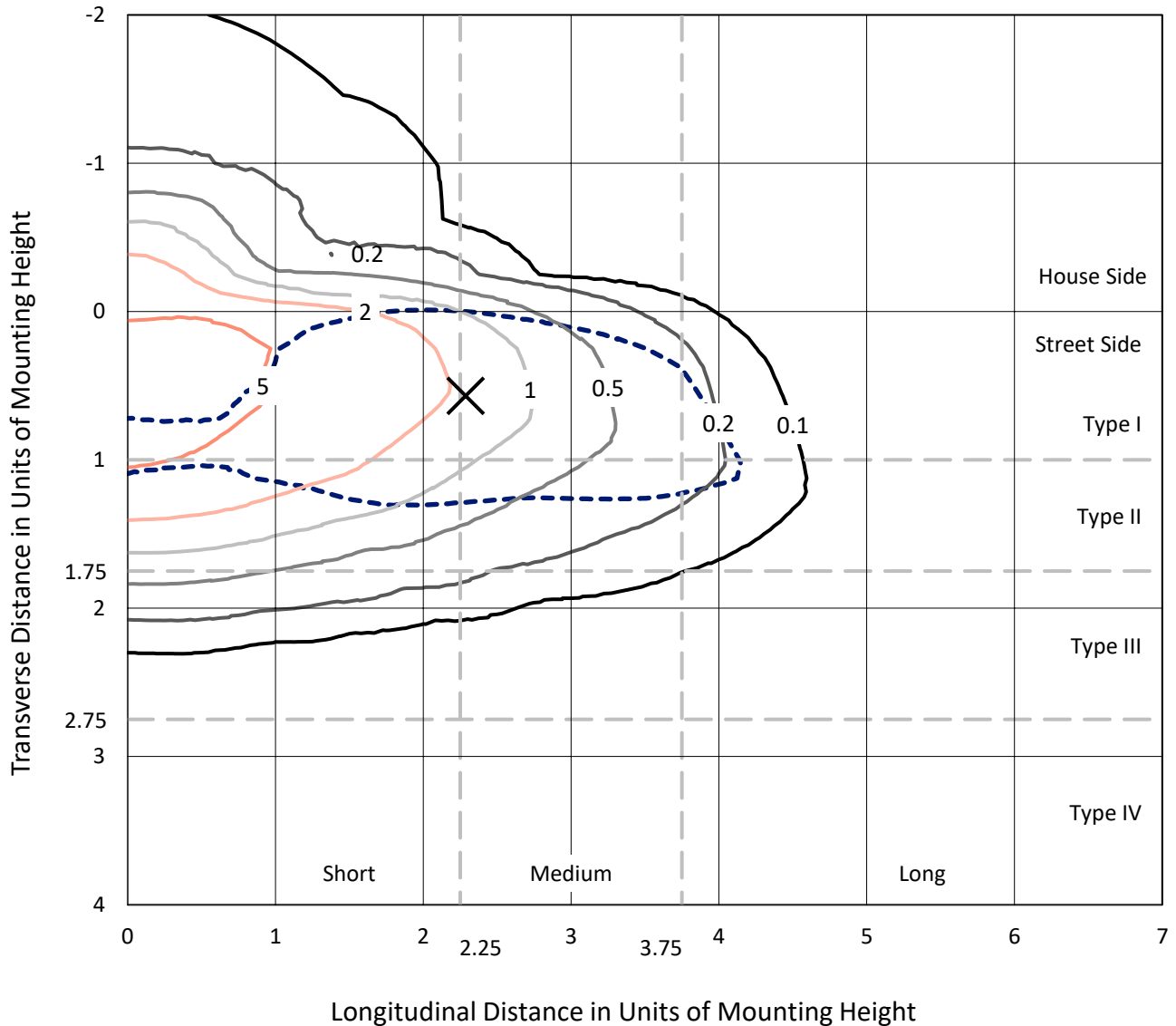
Lumens per Lamp: N/A
Luminaire Lumens: 21301 lumens
Efficiency: N/A
Efficacy: 132.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G3

Input Watts (W): 160.8
Input Voltage (V): 120
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

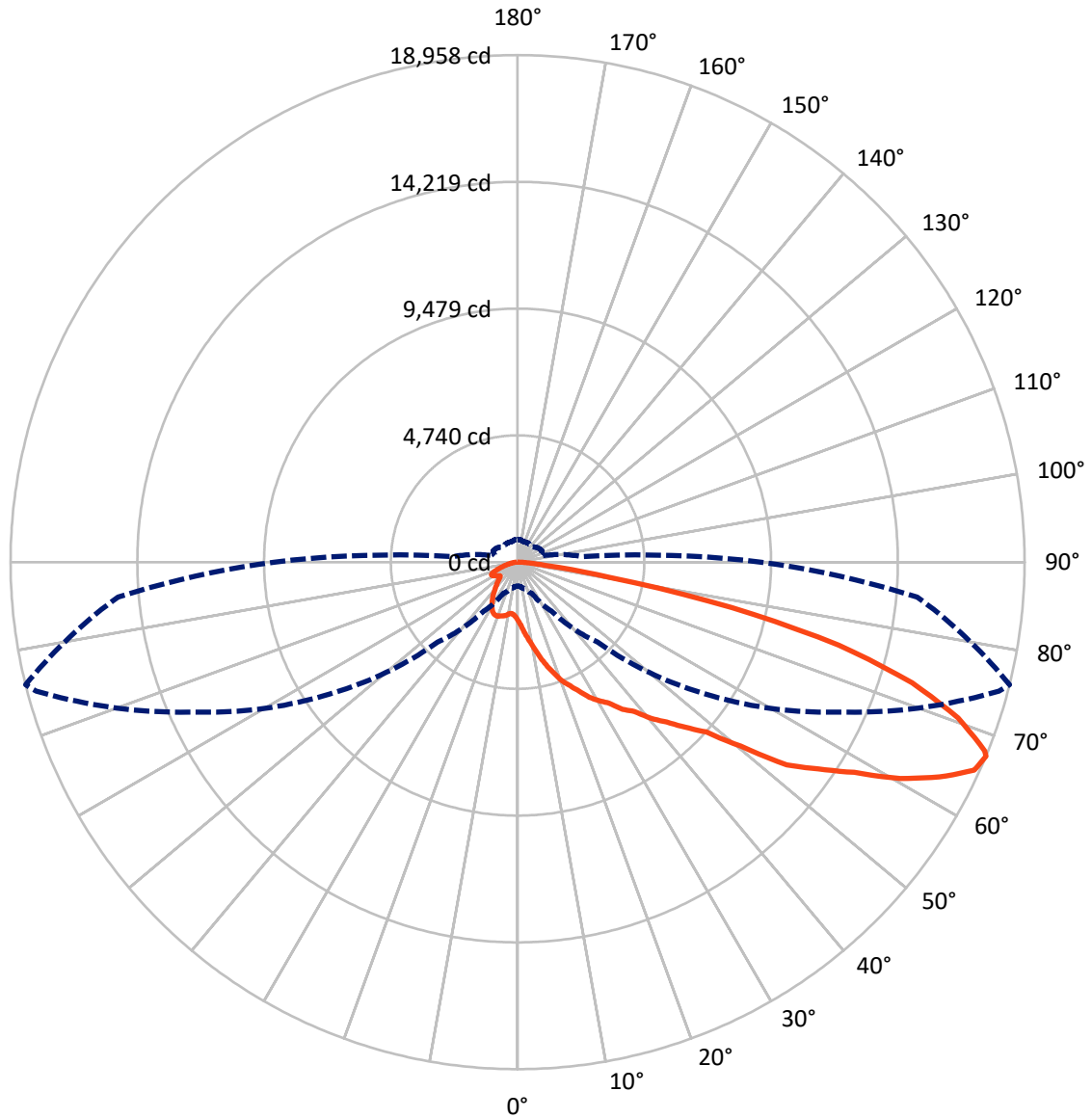
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.1 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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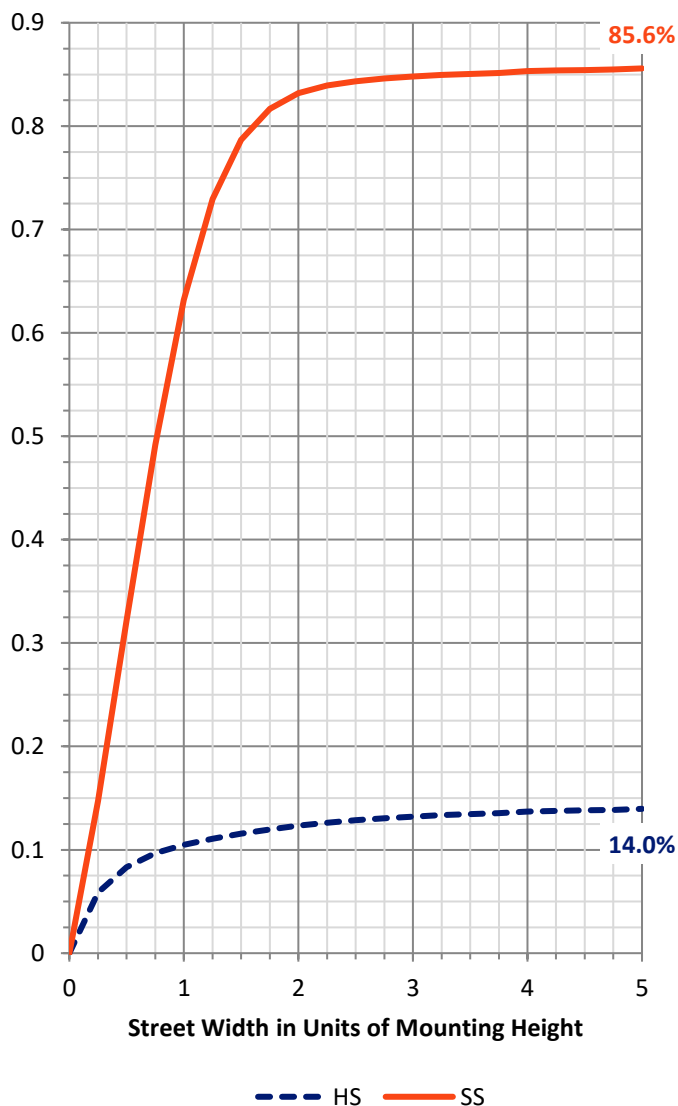
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3030.3	0.0	3030.3
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	18270.7	0.0	18270.7
	% Fixture	85.8	0.0	85.8
Total	Lumens	21301.0	0.0	21301.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	252.5	1.2
10°-20°	947.0	4.4
20°-30°	1760.6	8.3
30°-40°	2791.0	13.1
40°-50°	3860.2	18.1
50°-60°	4748.3	22.3
60°-70°	4418.5	20.7
70°-80°	2217.2	10.4
80°-90°	305.7	1.4
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°	21301.0	100.0
0°-180°	21301.0	100.0

Coefficient of Utilization



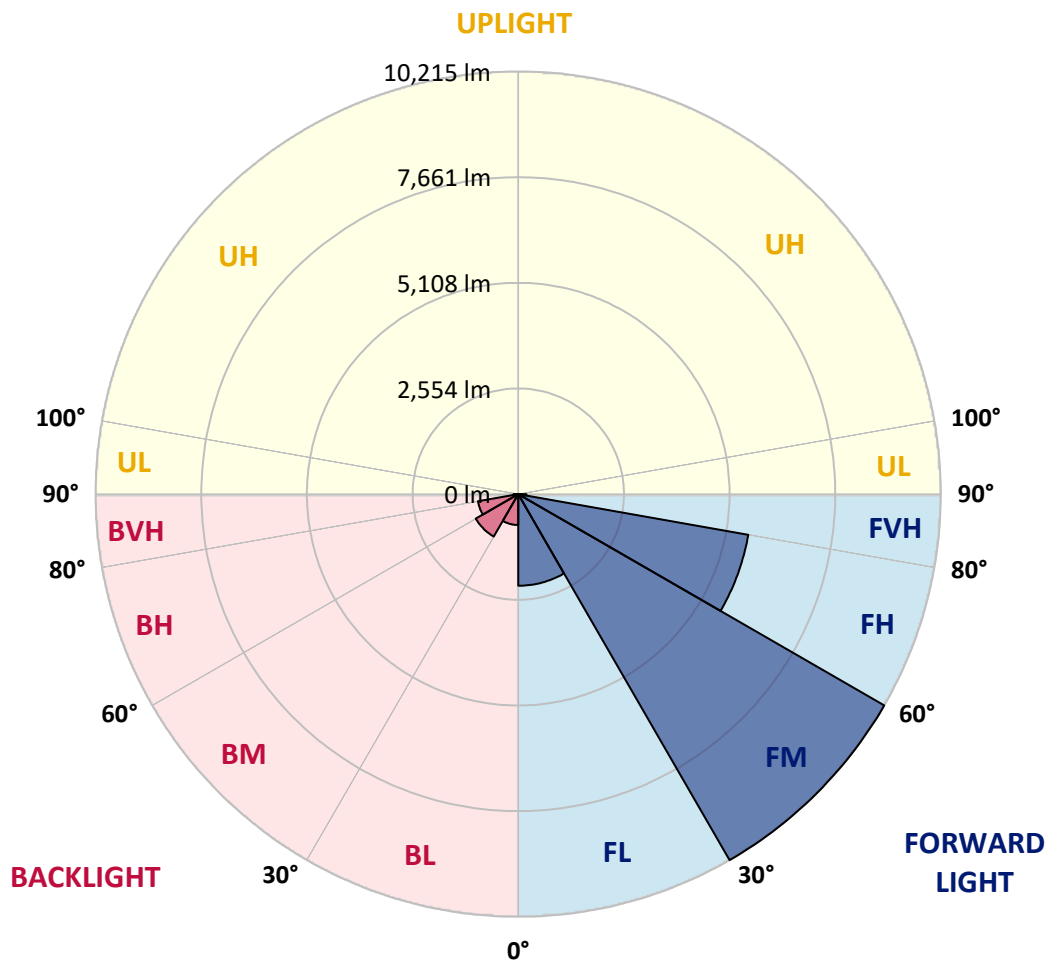
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2213.9	10.4			
FM (30°-60°)	10215.3	48.0			
FH (60°-80°)	5646.7	26.5			G3/7500
FVH (80°-90°)	194.8	0.9			G2/225
BL (0°-30°)	746.3	3.5	B2/1000		
BM (30°-60°)	1184.2	5.6	B2/2500		
BH (60°-80°)	989.0	4.6	B2/1000		G2/1000
BVH (80°-90°)	110.9	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2179.8	2179.8	2179.8	2179.8	2179.8	2179.8	2179.8	2179.8	2179.8	2179.8	2179.8
2.5°	3024.6	2988.2	2951.8	2874.1	2847.4	2774.6	2641.0	2493.0	2371.6	2354.6	2269.6
5°	3752.8	3699.4	3687.3	3643.6	3505.2	3364.4	3146.0	2908.1	2611.9	2633.8	2342.5
7.5°	4299.0	4267.4	4201.9	4160.6	4078.1	3891.2	3665.4	3349.9	2973.6	2900.8	2505.1
10°	4711.6	4668.0	4665.5	4629.1	4585.4	4393.7	4221.3	3796.5	3313.4	3213.9	2704.2
12.5°	4920.4	4913.1	5041.8	5041.8	5024.8	4944.7	4648.5	4260.1	3636.3	3602.3	2934.8
15°	5146.2	5085.5	5197.1	5282.1	5325.8	5367.1	5121.9	4711.6	4049.0	3983.4	3182.4
17.5°	5146.2	5141.3	5253.0	5393.8	5621.9	5675.3	5541.8	5126.7	4391.2	4342.7	3454.2
20°	5058.8	5129.2	5206.8	5396.2	5643.8	5859.8	5898.7	5551.5	4769.9	4731.1	3762.5
22.5°	5466.6	5398.6	5478.7	5551.5	5743.3	6071.0	6177.8	5925.4	5168.0	5019.9	4041.7
25°	6151.1	6105.0	6046.7	5939.9	6020.0	6163.3	6325.9	6202.1	5507.8	5342.8	4311.1
27.5°	6818.7	6821.1	6694.9	6461.8	6289.5	6318.6	6510.4	6444.8	5794.3	5721.5	4495.6
30°	7767.8	7709.5	7568.7	7253.2	6915.8	6639.0	6607.5	6670.6	6158.4	6017.6	4760.2
32.5°	8479.0	8491.2	8292.1	7838.2	7377.0	7151.2	6874.5	6901.2	6389.0	6284.6	4971.4
35°	9054.3	9039.8	8899.0	8522.7	7976.5	7704.7	7330.8	7177.9	6925.5	6760.4	5294.2
37.5°	9675.7	9556.8	9328.6	8903.8	8554.3	8178.0	7813.9	7469.2	7282.3	7083.2	5571.0
40°	9925.8	9925.8	9619.9	9425.7	9010.6	8726.6	8491.2	7852.7	7716.8	7678.0	5925.4
42.5°	9748.6	9857.8	9731.6	9510.7	9340.8	8981.5	8918.4	8250.8	8253.3	8175.6	6350.2
45°	9731.6	9581.1	9476.7	9532.5	9452.4	9433.0	9593.2	8801.9	8816.4	8806.7	6920.6
47.5°	9243.7	9175.7	9331.1	9423.3	9488.8	9789.8	10251.0	9459.7	9564.1	9491.3	7578.4
50°	8758.2	8746.0	8843.1	9178.1	9462.1	9957.3	10877.3	10474.4	10816.6	10811.8	8770.3
52.5°	7427.9	7556.6	7937.7	8646.5	9348.0	10185.5	11350.7	11770.6	12423.6	12600.8	9758.3
55°	6156.0	6088.0	6651.2	7680.4	8850.4	10275.3	11879.9	12549.8	13511.1	13639.7	10772.9
57.5°	4789.3	4915.6	5359.8	6347.7	7821.2	9831.1	12268.2	13319.3	14739.4	14838.9	11950.3
60°	3573.2	3590.2	4078.1	4874.3	6452.1	8828.6	12394.5	14108.2	16147.3	16431.3	13183.4
62.5°	2247.8	2349.8	2721.2	3505.2	4857.3	7425.5	11828.9	14586.4	17623.2	17698.4	14426.2
65°	1211.3	1276.8	1556.0	2048.8	3393.6	5617.1	10328.7	14300.0	18317.4	18764.1	14979.7
67°	895.7	907.9	1036.5	1308.4	2269.6	4228.6	8612.5	13263.5	18633.0	18958.2	15001.5
67.5°	839.9	856.9	958.8	1174.9	2012.3	3893.6	8163.5	12894.5	18492.2	18841.7	14831.6
70°	718.5	723.4	747.6	808.3	1128.8	2342.5	5558.8	10566.6	17140.1	17475.1	13639.7
72.5°	638.4	643.3	653.0	665.1	764.6	1354.5	3381.4	8131.9	14897.2	15431.2	11768.2
75°	560.7	577.7	582.6	572.9	650.6	881.2	1798.7	5976.3	12151.7	12411.5	9151.4
77.5°	475.8	483.1	492.8	502.5	580.2	657.8	864.2	4034.4	8340.7	8182.9	4949.5
80°	400.5	403.0	410.2	417.5	502.5	502.5	490.3	2179.8	3643.6	3483.4	1672.5
82.5°	286.4	303.4	320.4	339.8	417.5	337.4	320.4	971.0	1153.0	1097.2	565.6
85°	111.7	135.9	211.2	233.0	264.6	182.1	213.6	419.9	480.6	475.8	211.2
87.5°	19.4	21.8	58.3	89.8	97.1	63.1	102.0	150.5	179.6	194.2	77.7
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°	2179.8	2179.8	2179.8	2179.8	2179.8	2179.8	2179.8	2179.8	2179.8	2179.8	2179.8
2.5°	2199.3	2124.0	2034.2	1944.4	1886.1	1793.9	1786.6	1730.8	1723.5	1704.1	1713.8
5°	2216.2	2126.4	1944.4	1801.2	1735.6	1682.2	1694.3	1670.1	1662.8	1650.7	1631.2
7.5°	2349.8	2172.6	1900.7	1776.9	1728.3	1704.1	1704.1	1674.9	1653.1	1667.6	1682.2
10°	2437.1	2194.4	1934.7	1810.9	1772.0	1718.6	1738.0	1701.6	1713.8	1684.6	1684.6
12.5°	2577.9	2318.2	2005.1	1861.8	1798.7	1750.2	1769.6	1728.3	1718.6	1721.0	1713.8
15°	2767.3	2400.7	2036.6	1891.0	1847.3	1786.6	1772.0	1735.6	1699.2	1687.1	1701.6
17.5°	2944.5	2502.7	2058.5	1908.0	1837.6	1769.6	1752.6	1706.5	1694.3	1657.9	1628.8
20°	3155.7	2624.1	2087.6	1922.5	1801.2	1733.2	1689.5	1643.4	1602.1	1580.3	1590.0
22.5°	3296.5	2687.2	2102.2	1893.4	1747.8	1684.6	1592.4	1560.8	1502.6	1478.3	1458.9
25°	3527.1	2764.8	2065.7	1813.3	1653.1	1551.1	1468.6	1424.9	1383.6	1352.1	1342.4
27.5°	3585.3	2823.1	1980.8	1677.4	1502.6	1395.8	1325.4	1272.0	1245.3	1196.7	1187.0
30°	3755.2	2764.8	1854.6	1512.3	1359.4	1250.1	1179.7	1140.9	1077.8	1065.6	1038.9
32.5°	3864.5	2781.8	1694.3	1352.1	1194.3	1097.2	1051.1	1012.2	995.2	937.0	922.4
35°	4046.5	2723.6	1531.7	1204.0	1058.4	983.1	944.3	932.1	876.3	849.6	825.3
37.5°	4163.0	2689.6	1369.1	1036.5	910.3	878.7	890.9	839.9	771.9	720.9	704.0
40°	4367.0	2677.5	1184.6	898.2	808.3	801.1	839.9	742.8	619.0	575.3	551.0
42.5°	4660.7	2594.9	1041.4	774.4	728.2	759.8	767.1	619.0	548.6	512.2	495.2
45°	4942.3	2611.9	900.6	640.8	633.6	679.7	662.7	524.3	483.1	456.4	470.9
47.5°	5483.6	2696.9	762.2	534.0	570.4	614.1	514.6	468.5	429.7	410.2	412.7
50°	6321.0	2779.4	640.8	487.9	538.9	555.9	441.8	424.8	422.4	383.5	381.1
52.5°	6823.5	2747.9	619.0	546.2	577.7	555.9	480.6	468.5	449.1	432.1	412.7
55°	7622.1	2840.1	665.1	638.4	655.4	534.0	538.9	534.0	519.5	475.8	487.9
57.5°	8258.1	2900.8	725.8	713.7	704.0	555.9	563.2	565.6	555.9	536.5	553.5
60°	9132.0	3022.2	788.9	791.3	793.8	604.4	616.6	631.1	628.7	621.4	626.3
62.5°	9668.5	2966.3	859.3	898.2	886.0	704.0	701.5	711.2	711.2	723.4	730.7
65°	9588.4	2760.0	895.7	992.8	929.7	776.8	776.8	781.6	784.1	808.3	810.8
67°	9107.7	2391.0	876.3	1007.4	929.7	805.9	805.9	810.8	793.8	856.9	837.5
67.5°	8884.4	2281.8	859.3	995.2	922.4	803.5	803.5	805.9	791.3	852.0	832.6
70°	7726.5	1694.3	740.4	881.2	854.5	781.6	781.6	767.1	754.9	835.0	818.0
72.5°	6595.3	1230.7	594.7	750.1	771.9	752.5	757.4	720.9	687.0	742.8	728.2
75°	5051.5	905.4	463.6	577.7	653.0	704.0	735.5	643.3	599.6	614.1	587.4
77.5°	2818.2	589.9	366.5	427.2	497.6	655.4	706.4	580.2	490.3	473.3	473.3
80°	956.4	344.7	269.4	318.0	342.3	580.2	660.3	470.9	386.0	369.0	356.8
82.5°	361.7	211.2	184.5	218.5	218.5	458.8	538.9	361.7	291.3	376.3	383.5
85°	165.1	126.2	121.4	126.2	126.2	281.6	381.1	235.5	262.2	225.8	199.0
87.5°	65.5	60.7	55.8	53.4	43.7	48.5	131.1	63.1	118.9	31.6	29.1
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)