

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: P480372

Luminaire Tested: **IFLD-L-SA8C-722-U-SL3**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480372
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8C-722-U-SL3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens
Light Source: (128) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

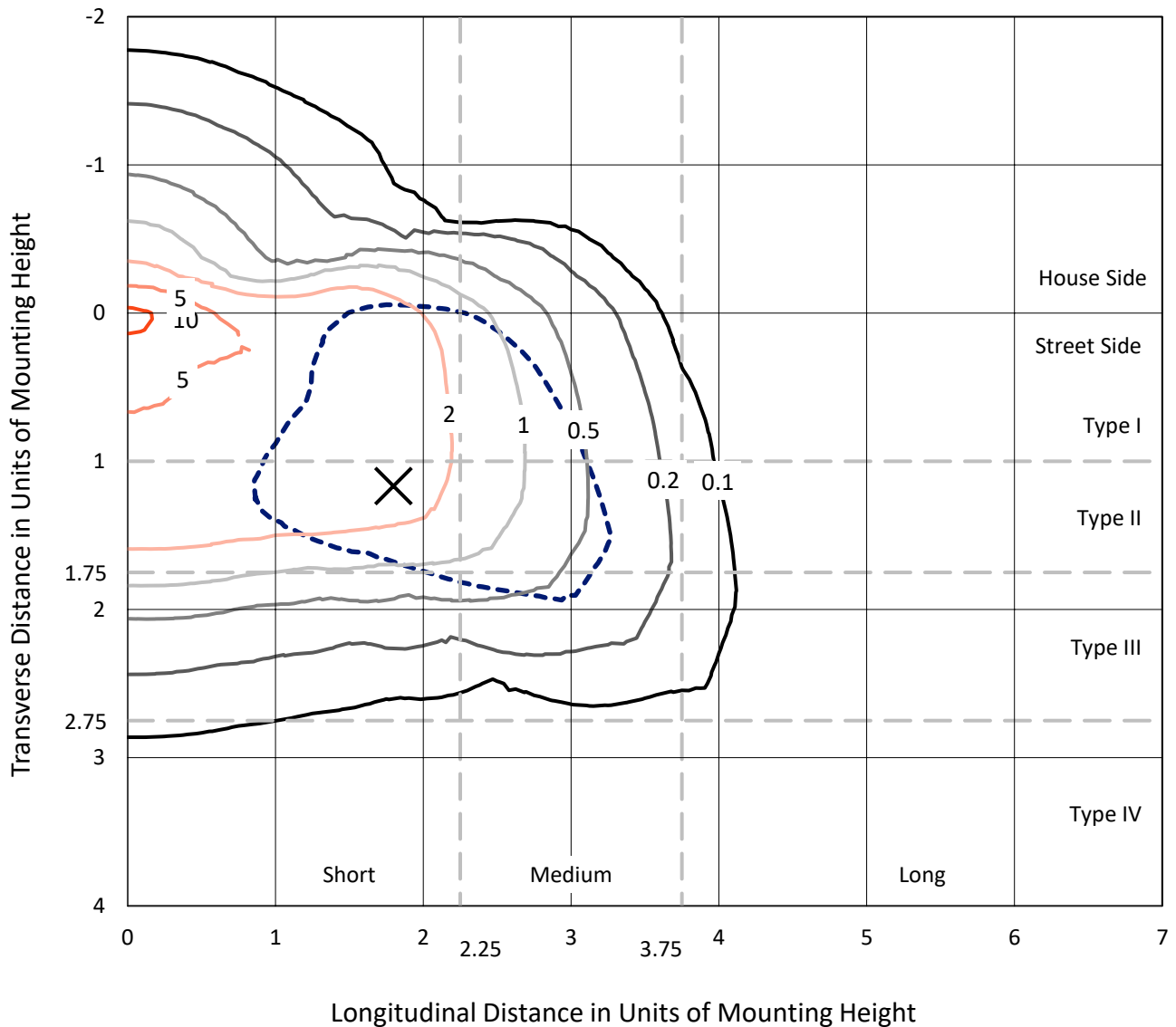
Lumens per Lamp: N/A
Luminaire Lumens: 36823.7 lumens
Efficiency: N/A
Efficacy: 87.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 420.3
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

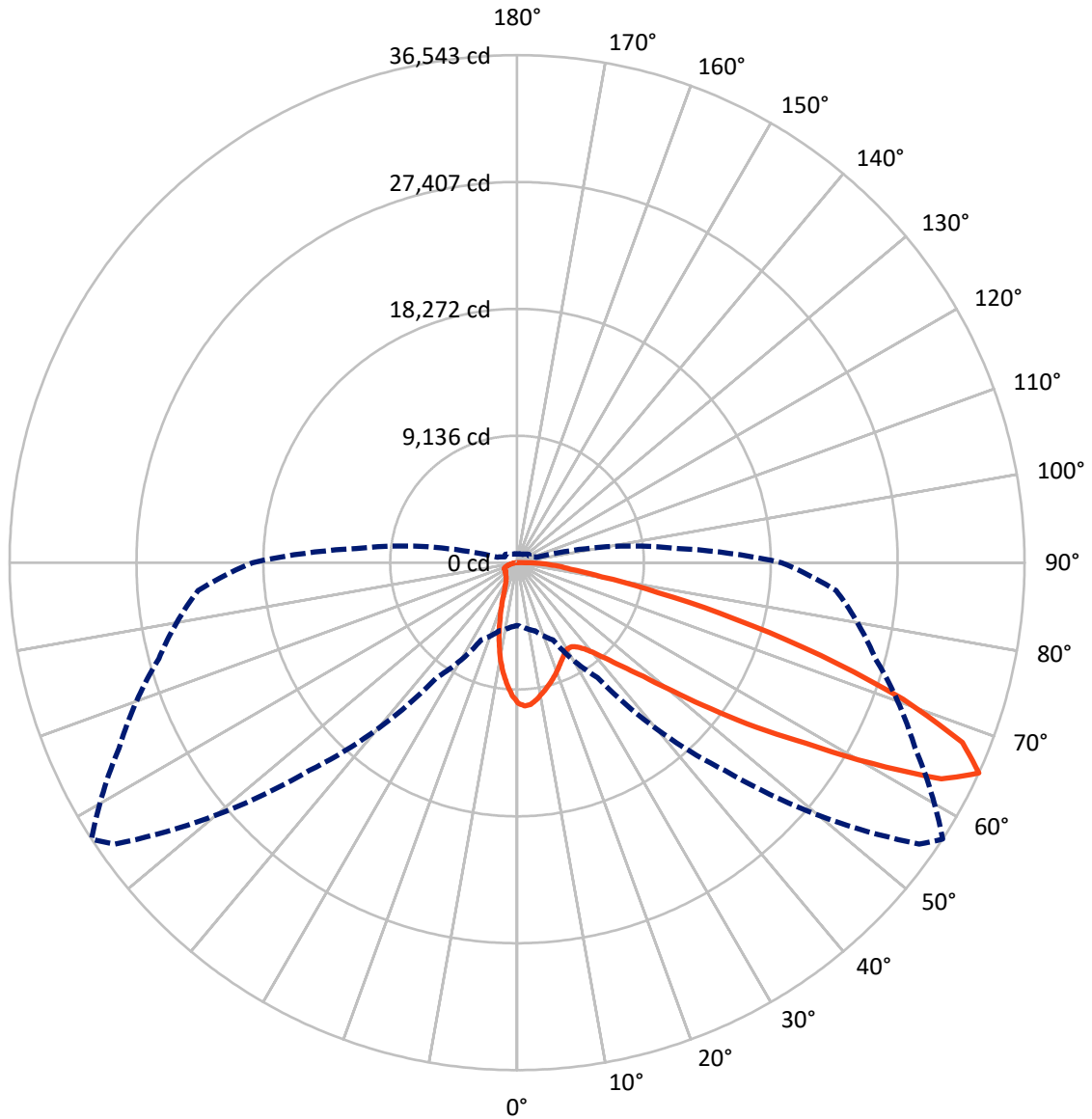
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 11.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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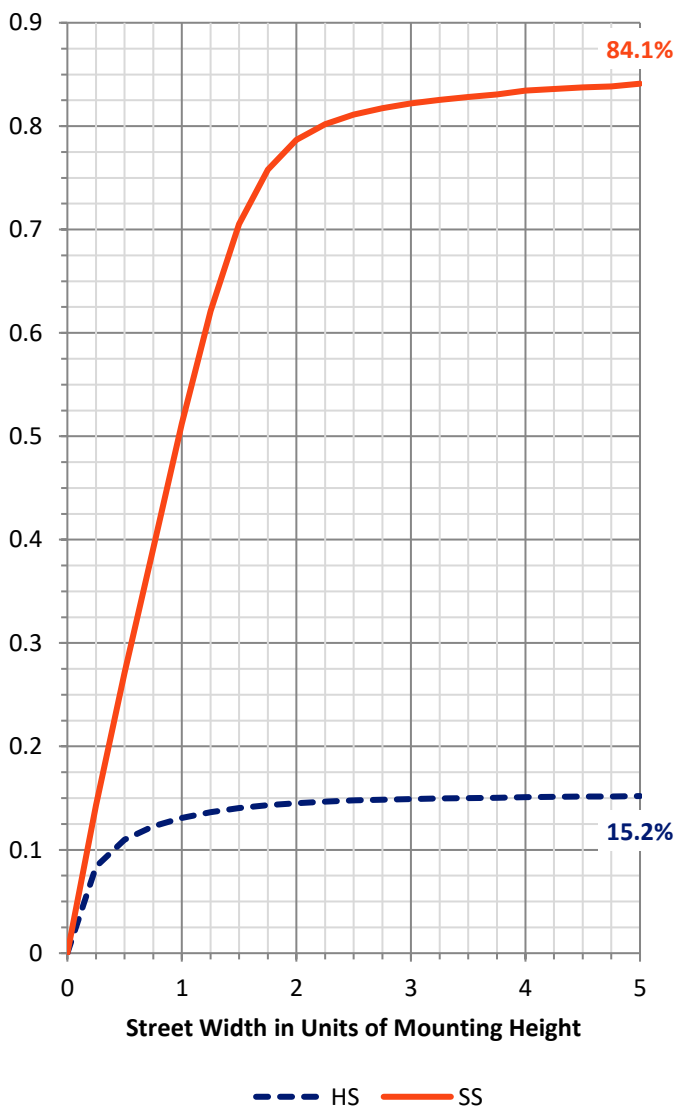
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5647.3	0.0	5647.3
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	31176.4	0.0	31176.4
	% Fixture	84.7	0.0	84.7
Total	Lumens	36823.7	0.0	36823.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	848.0	2.3
10°-20°	1825.0	5.0
20°-30°	2359.5	6.4
30°-40°	3175.2	8.6
40°-50°	5062.9	13.7
50°-60°	8942.4	24.3
60°-70°	9837.8	26.7
70°-80°	4115.3	11.2
80°-90°	657.7	1.8
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°	36823.7	100.0
0°-180°	36823.7	100.0

Coefficient of Utilization



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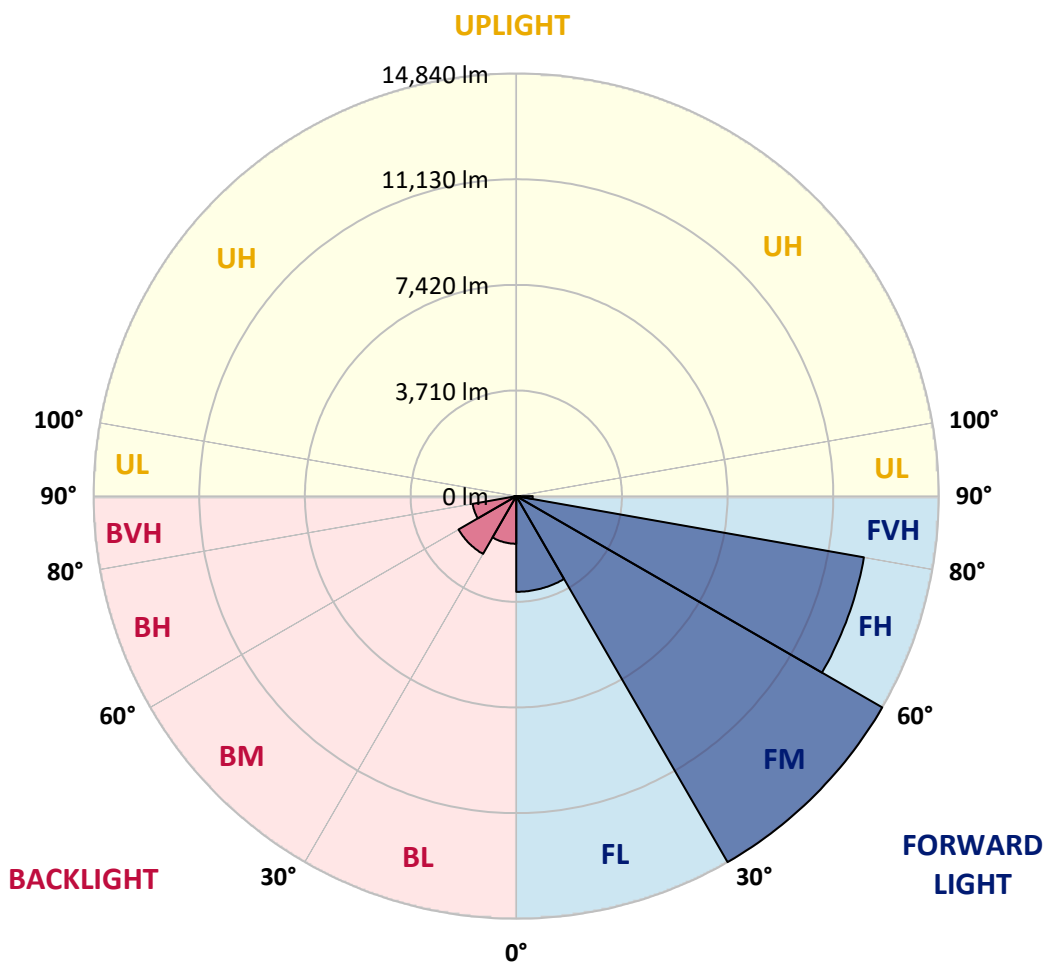
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3360.0	9.1			
FM (30°-60°)	14839.9	40.3			
FH (60°-80°)	12396.0	33.7			G5
FVH (80°-90°)	580.5	1.6			G4/750
BL (0°-30°)	1672.4	4.5	B3/2500		
BM (30°-60°)	2340.5	6.4	B2/2500		
BH (60°-80°)	1557.1	4.2	B3/2500		G3/2500
BVH (80°-90°)	77.2	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	10126.0	10126.0	10126.0	10126.0	10126.0	10126.0	10126.0	10126.0	10126.0	10126.0	10126.0
2.5°	10399.4	10416.0	10416.0	10449.2	10337.3	10391.2	10382.9	10333.2	10349.7	10262.7	10175.7
5°	10105.3	10092.9	10159.1	10167.4	10254.4	10279.3	10300.0	10266.9	10275.2	10084.6	10001.7
7.5°	9351.2	9347.1	9458.9	9554.2	9736.5	9906.4	10018.3	9985.1	10030.7	9910.6	9715.8
10°	8456.3	8551.6	8667.6	8762.9	9098.5	9313.9	9604.0	9633.0	9807.0	9778.0	9425.8
12.5°	7785.1	7826.5	7913.5	8187.0	8493.6	8849.9	9264.2	9301.5	9471.4	9554.2	9247.6
15°	7234.0	7271.3	7383.2	7586.2	7930.1	8352.7	8878.9	8974.2	9313.9	9342.9	9015.6
17.5°	6832.1	6861.2	6935.7	7138.7	7420.5	7963.2	8460.4	8630.3	9077.8	9218.6	8775.3
20°	6674.7	6612.6	6654.0	6782.4	7064.2	7482.6	8124.8	8274.0	8845.7	9123.3	8547.4
22.5°	6604.3	6550.4	6575.3	6567.0	6790.7	7089.0	7764.4	7921.8	8626.2	9011.5	8344.4
25°	6658.1	6658.1	6633.3	6612.6	6637.4	6832.1	7374.9	7619.4	8332.0	8916.2	8137.3
27.5°	6948.2	6836.3	6848.7	6761.7	6736.9	6736.9	7200.9	7345.9	8236.7	8862.3	7967.4
30°	7134.6	7188.5	7192.6	7064.2	6935.7	6703.7	7039.3	7180.2	8158.0	8928.6	7867.9
32.5°	7611.1	7586.2	7515.8	7490.9	7300.3	7039.3	7118.0	7213.3	8112.4	9077.8	7897.0
35°	8087.5	8075.1	8079.3	8066.8	7867.9	7482.6	7329.3	7457.8	8195.3	9338.8	7996.4
37.5°	8580.6	8613.7	8754.6	8754.6	8543.3	8124.8	7921.8	7884.5	8497.7	9765.5	8232.6
40°	9073.6	9156.5	9334.6	9616.4	9318.1	8928.6	8601.3	8543.3	8862.3	10337.3	8800.2
42.5°	9545.9	9682.7	10034.8	10453.3	10353.9	9964.4	9529.4	9463.1	9612.2	11186.7	9591.5
45°	10150.9	10266.9	10822.1	11464.3	11601.0	11257.1	10747.5	10693.6	10685.3	12429.6	10681.2
47.5°	11070.6	11194.9	11750.1	12396.5	12819.1	12872.9	12301.2	12243.2	12044.3	14107.6	12276.3
50°	12222.5	12425.5	12893.7	13647.7	14260.9	14836.8	14675.2	14505.4	14115.9	16059.1	14298.2
52.5°	13063.5	13312.1	13946.0	14911.4	15992.8	16908.4	17488.5	17488.5	16593.5	18201.1	16730.3
55°	13287.3	13436.4	14236.1	15632.3	17484.3	19800.4	21014.3	20923.2	19543.5	20455.0	19560.1
57.5°	12396.5	12591.2	13560.7	15023.3	18267.4	22505.9	24515.4	24536.1	22766.9	23073.5	22352.6
60°	9943.7	10005.8	11149.4	13105.0	17513.3	24685.2	29296.6	29375.3	26433.7	25406.1	23773.7
62.5°	6873.6	7072.5	7934.2	9649.5	14509.5	24440.8	33908.0	34297.5	29371.2	26636.7	23997.5
65°	4524.4	4644.5	5104.4	6148.5	10101.1	21184.2	35341.6	36543.1	31616.8	26707.1	23061.1
67.5°	3281.4	3302.1	3438.9	3977.5	6069.8	15234.6	32892.9	34587.5	32457.9	26118.8	20865.2
70°	2651.7	2668.2	2717.9	3061.8	3919.5	9533.5	26827.3	29483.1	29934.7	23330.4	16804.8
72.5°	2154.5	2175.2	2237.3	2560.5	3231.7	5303.3	19618.1	22853.9	24349.6	17260.6	11170.1
75°	1694.6	1711.1	1860.3	2179.3	3037.0	3641.9	13013.8	16183.4	16386.4	10088.7	5228.7
77.5°	1160.1	1189.1	1371.4	1847.9	2858.8	3186.1	8112.4	10366.3	9301.5	3948.5	1798.2
80°	737.5	778.9	886.6	1400.4	2527.4	3041.1	5046.4	6190.0	4072.8	1350.7	865.9
82.5°	435.0	476.5	584.2	907.4	1984.6	2821.5	3554.9	3873.9	1910.0	691.9	522.0
85°	240.3	269.3	352.2	546.9	1164.2	2506.6	2846.4	2780.1	1093.8	368.7	327.3
87.5°	78.7	91.2	128.4	219.6	480.6	1180.8	1707.0	1603.4	567.6	169.9	128.4
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°	10126.0	10126.0	10126.0	10126.0	10126.0	10126.0	10126.0	10126.0	10126.0	10126.0	10126.0
2.5°	10117.7	10105.3	9918.8	9778.0	9537.7	9338.8	9260.1	9152.3	9148.2	9069.5	9048.8
5°	9873.3	9744.8	9458.9	9185.5	8758.7	8472.9	8211.8	8029.5	7955.0	7793.4	7756.1
7.5°	9558.4	9388.5	8949.3	8435.6	7934.2	7486.8	7080.7	6674.7	6446.8	6368.1	6281.1
10°	9231.1	8932.8	8282.3	7706.4	7006.2	6318.4	5680.3	5108.6	4797.8	4578.2	4482.9
12.5°	8970.0	8572.3	7743.7	6881.9	5957.9	5038.1	4296.5	3695.7	3343.6	3177.8	3103.3
15°	8675.9	8149.7	7155.3	6065.7	4913.8	3869.8	3144.7	2672.4	2531.5	2452.8	2440.3
17.5°	8365.1	7756.1	6517.3	5261.9	3894.6	2912.7	2444.5	2253.9	2191.8	2158.6	2142.0
20°	8075.1	7403.9	5862.6	4366.9	3049.4	2336.8	2117.2	2017.7	2013.6	2030.2	2026.0
22.5°	7664.9	6944.0	5216.3	3538.3	2436.2	2034.3	1893.4	1868.6	1893.4	1914.2	1922.4
25°	7432.9	6567.0	4495.4	2809.1	2013.6	1806.4	1760.9	1752.6	1789.9	1814.7	1810.6
27.5°	7192.6	6177.5	3824.2	2249.8	1765.0	1644.9	1636.6	1644.9	1682.1	1719.4	1715.3
30°	7006.2	5866.8	3194.4	1881.0	1574.4	1528.8	1520.6	1528.8	1549.6	1553.7	1553.7
32.5°	6852.9	5498.0	2659.9	1632.4	1458.4	1421.1	1429.4	1425.3	1429.4	1433.5	1437.7
35°	6761.7	5278.4	2220.8	1479.1	1363.1	1334.1	1330.0	1317.5	1321.7	1325.8	1321.7
37.5°	6956.4	5170.7	1872.7	1371.4	1296.8	1272.0	1263.7	1255.4	1243.0	1243.0	1243.0
40°	7250.6	5112.7	1661.4	1301.0	1247.1	1218.1	1193.2	1185.0	1185.0	1189.1	1193.2
42.5°	7834.8	5208.0	1516.4	1247.1	1185.0	1151.8	1127.0	1131.1	1143.5	1156.0	1147.7
45°	8680.0	5498.0	1450.1	1205.7	1147.7	1102.1	1085.5	1081.4	1093.8	1114.5	1131.1
47.5°	9786.3	5949.6	1425.3	1168.4	1122.8	1060.7	1039.9	1052.4	1068.9	1097.9	1085.5
50°	11596.8	6964.7	1446.0	1135.2	1085.5	1039.9	1015.1	1002.7	1015.1	1035.8	1044.1
52.5°	13962.6	8808.5	1524.7	1118.7	1060.7	1023.4	981.9	961.2	973.7	990.2	990.2
55°	16792.4	11327.5	1744.3	1097.9	1019.2	998.5	952.9	911.5	919.8	919.8	915.6
57.5°	19286.6	13229.3	2005.3	1068.9	994.4	965.4	907.4	857.6	849.4	853.5	857.6
60°	20405.3	13734.7	2129.6	1060.7	994.4	923.9	845.2	795.5	783.1	774.8	774.8
62.5°	20210.6	12860.5	1876.9	1023.4	1019.2	890.8	787.2	733.3	716.8	700.2	704.3
65°	19033.9	11613.4	1479.1	973.7	1023.4	870.1	729.2	675.3	646.3	625.6	621.5
67.5°	16883.6	9914.7	1172.5	936.4	981.9	832.8	679.5	617.3	592.5	571.8	563.5
70°	13208.5	7772.7	1019.2	886.6	882.5	741.6	621.5	567.6	530.3	505.5	505.5
72.5°	8564.0	4913.8	874.2	787.2	762.4	621.5	538.6	505.5	476.5	455.8	455.8
75°	3878.0	2282.9	704.3	658.8	621.5	497.2	455.8	439.2	414.3	393.6	393.6
77.5°	1392.1	973.7	526.2	517.9	464.0	385.3	368.7	356.3	339.7	319.0	319.0
80°	778.9	617.3	393.6	377.0	323.2	285.9	265.2	265.2	256.9	244.4	240.3
82.5°	493.0	401.9	290.0	252.7	211.3	190.6	182.3	178.2	174.0	157.4	153.3
85°	310.7	273.5	190.6	149.2	124.3	95.3	91.2	87.0	78.7	70.4	70.4
87.5°	140.9	157.4	74.6	45.6	33.1	20.7	12.4	4.1	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)