

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: P480763

Luminaire Tested: **IFLD-L-SA8D-722-U-SL4**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480763
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8D-722-U-SL4
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens
Light Source: (128) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

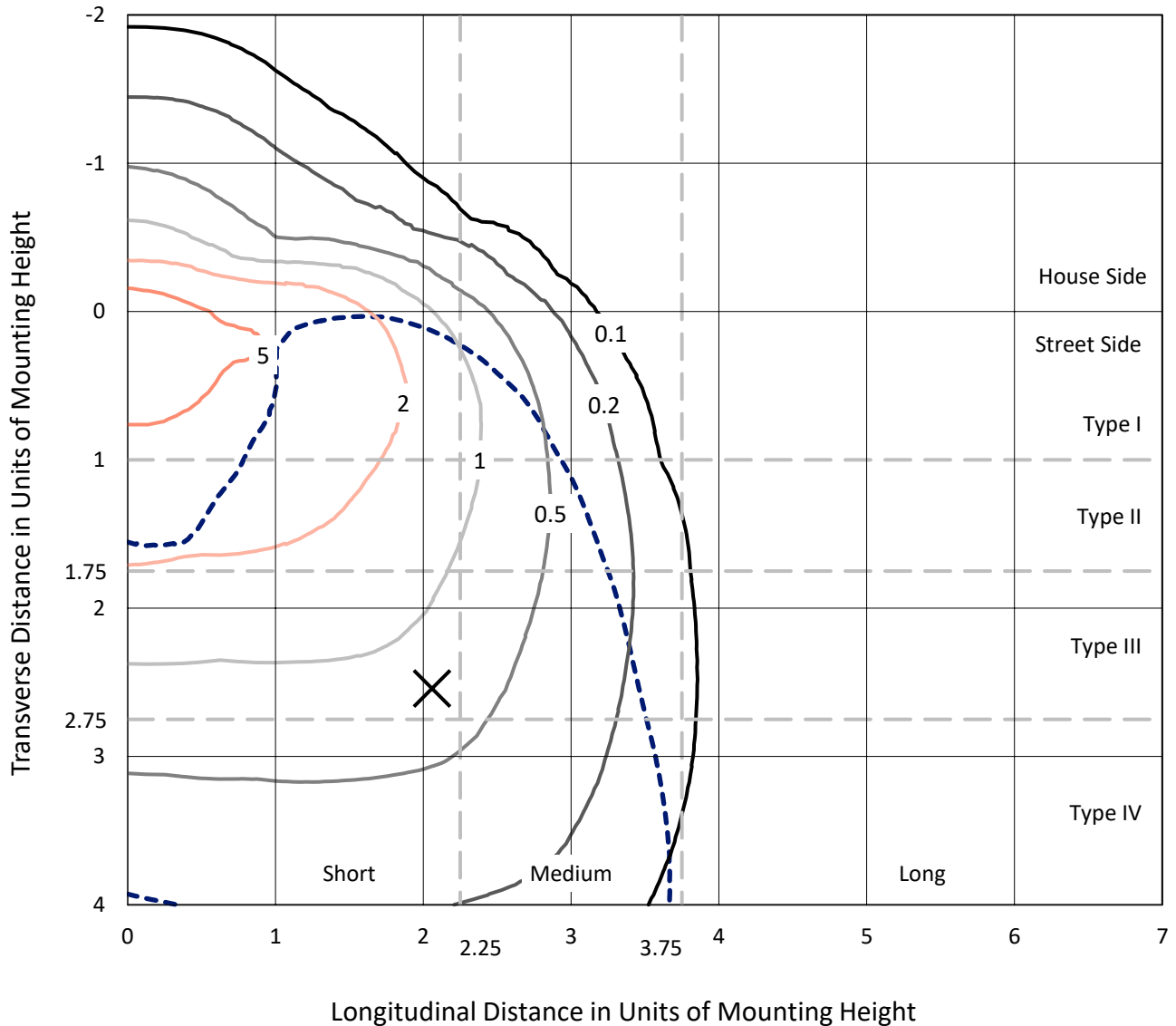
Lumens per Lamp: N/A
Luminaire Lumens: 39720.1 lumens
Efficiency: N/A
Efficacy: 81.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 488.3
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

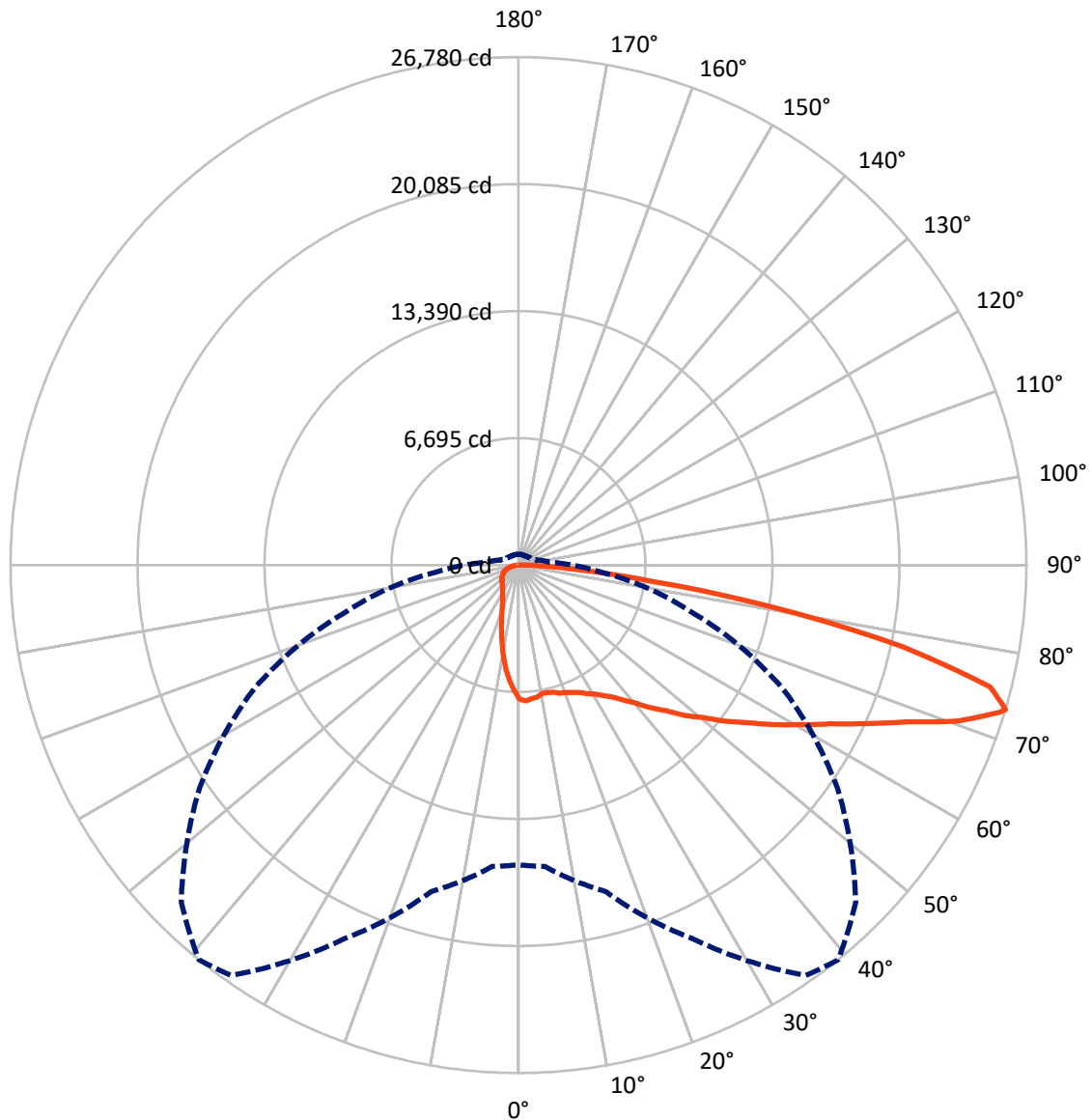
× Max cd
- - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.9 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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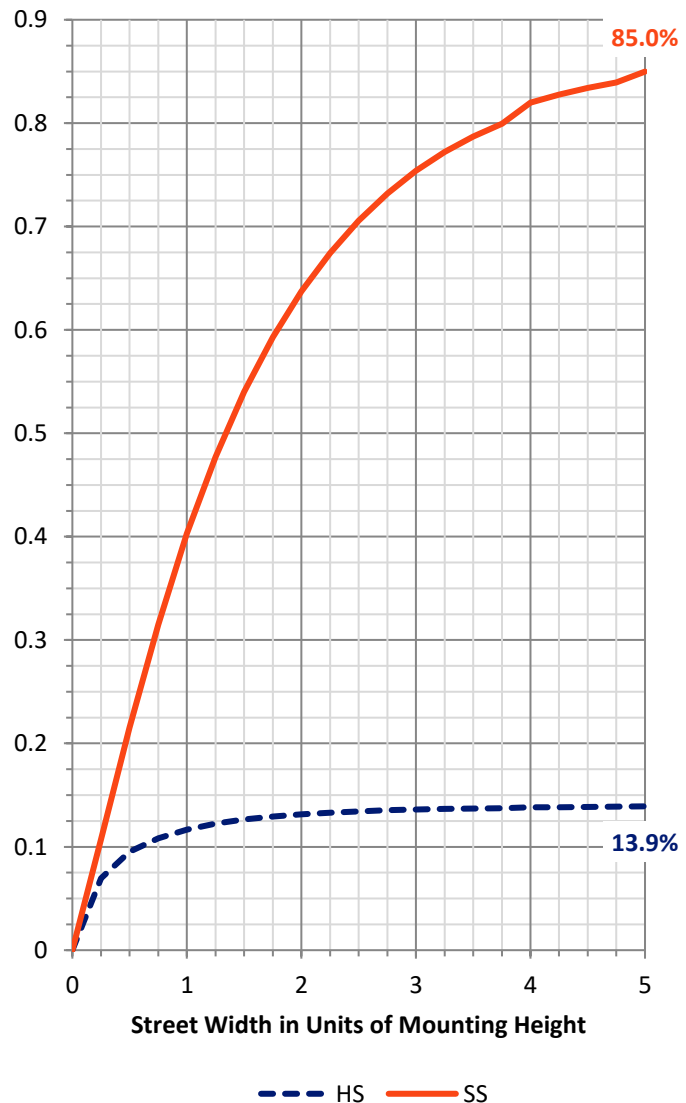
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5583.5	0.0	5583.5
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	34136.6	0.0	34136.6
	% Fixture	85.9	0.0	85.9
Total	Lumens	39720.1	0.0	39720.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	613.8	1.5
10°-20°	1560.3	3.9
20°-30°	2384.3	6.0
30°-40°	3476.4	8.8
40°-50°	5253.1	13.2
50°-60°	7606.9	19.2
60°-70°	9664.9	24.3
70°-80°	7834.9	19.7
80°-90°	1325.6	3.3
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°	39720.1	100.0
0°-180°	39720.1	100.0

Coefficient of Utilization



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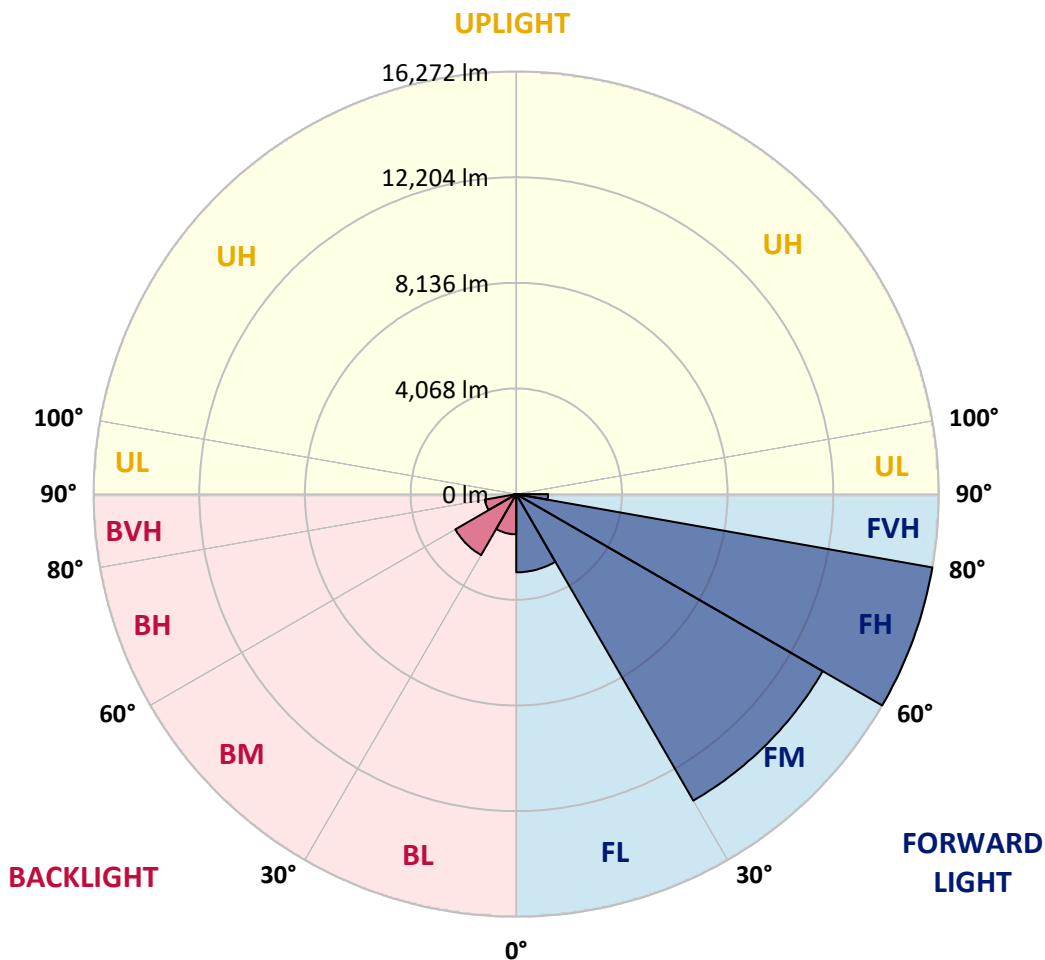
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3009.9	7.6			
FM (30°-60°)	13626.6	34.3			
FH (60°-80°)	16271.7	41.0			G5
FVH (80°-90°)	1228.4	3.1			G5
BL (0°-30°)	1548.4	3.9	B3/2500		
BM (30°-60°)	2709.8	6.8	B3/5000		
BH (60°-80°)	1228.0	3.1	B3/2500		G3/2500
BVH (80°-90°)	97.3	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	7070.4	7070.4	7070.4	7070.4	7070.4	7070.4	7070.4	7070.4	7070.4	7070.4	7070.4
2.5°	7239.3	7163.7	7177.1	7150.4	7177.1	7168.2	7154.9	7088.2	7154.9	7088.2	7070.4
5°	7141.5	7141.5	7186.0	7119.3	7128.2	7083.8	7128.2	7079.3	7034.9	6923.8	6892.7
7.5°	7110.4	7106.0	7110.4	7017.1	7061.5	7034.9	6990.4	6937.1	6848.2	6777.1	6674.9
10°	6897.1	6941.5	6892.7	6919.3	6954.9	6874.9	6870.4	6857.1	6817.1	6723.8	6661.6
12.5°	6781.6	6857.1	6883.8	6861.6	6892.7	6901.5	6874.9	6857.1	6808.2	6746.0	6568.2
15°	6830.4	6741.6	6817.1	6963.8	6932.7	6954.9	6959.3	6941.5	6919.3	6803.8	6688.2
17.5°	6843.8	6790.4	6950.4	6981.5	7021.5	7101.5	7048.2	7043.8	6959.3	6879.3	6710.5
20°	6874.9	6852.7	6981.5	7146.0	7150.4	7163.7	7190.4	7123.7	7079.3	6941.5	6683.8
22.5°	6990.4	7066.0	7186.0	7257.1	7297.1	7306.0	7306.0	7172.6	7123.7	7012.6	6808.2
25°	7337.1	7257.1	7425.9	7510.4	7452.6	7439.3	7408.2	7288.2	7234.8	7137.1	6866.0
27.5°	7590.4	7585.9	7683.7	7799.2	7643.7	7674.8	7563.7	7528.2	7408.2	7354.8	6968.2
30°	7937.0	8034.8	8030.3	8065.9	7861.5	7897.0	7754.8	7688.1	7621.5	7652.6	7270.4
32.5°	8381.4	8345.9	8403.6	8377.0	8172.5	8203.6	8034.8	7932.6	7954.8	8048.1	7683.7
35°	8665.8	8630.3	8652.5	8652.5	8590.3	8554.7	8483.6	8350.3	8457.0	8630.3	8145.9
37.5°	8972.5	9016.9	9145.8	9119.1	9039.1	9039.1	9030.2	8936.9	9074.7	9501.3	8883.6
40°	9243.5	9363.5	9443.5	9496.9	9590.2	9590.2	9665.7	9612.4	9861.3	10545.6	9785.7
42.5°	9528.0	9532.4	9967.9	10007.9	10216.8	10305.7	10363.4	10407.9	10874.5	11638.9	10750.1
45°	9892.4	9914.6	10296.8	10603.4	10927.8	10958.9	11176.7	11323.3	11896.6	12834.3	11798.8
47.5°	10372.3	10345.7	10754.5	11243.3	11647.8	11861.1	12123.3	12283.2	12989.8	14132.0	12945.4
50°	11003.4	10923.4	11158.9	11927.7	12403.2	12638.8	13105.4	13372.0	14198.6	15371.8	13732.0
52.5°	11772.2	11638.9	11825.5	12665.4	13198.7	13674.2	14118.6	14416.4	15278.5	16331.7	14314.2
55°	12585.4	12309.9	12363.2	13447.6	14216.4	14665.2	15274.1	15585.1	16465.1	17193.9	14896.3
57.5°	13389.8	13216.5	13109.8	14198.6	15429.6	15860.7	16420.6	16825.0	17571.6	17958.2	15389.6
60°	14065.3	14020.9	13847.5	15362.9	16713.9	17082.8	17669.4	17918.3	18482.6	18664.8	15398.5
62.5°	14620.8	14469.7	14745.2	16300.6	18020.5	18438.2	19082.6	19104.8	19504.8	19104.8	14945.2
65°	15056.3	15065.2	15505.2	17433.9	19531.4	20149.1	20669.1	20611.3	20353.6	18842.6	13874.2
67.5°	15451.8	15620.7	16265.1	18678.2	21473.5	22055.6	22633.3	21869.0	20584.7	17616.1	11781.1
70°	15762.9	15931.8	17291.6	20193.6	23762.1	24615.4	24744.3	22366.7	19522.5	14923.0	8888.0
72.5°	15727.4	16034.0	17873.8	21402.4	25793.0	26530.7	25490.8	20966.8	16265.1	10403.4	5186.2
73°	15802.9	15954.0	17824.9	21740.1	26410.8	26779.6	25144.2	20526.9	15340.7	9332.4	4386.2
75°	14345.3	14856.3	16940.6	21189.0	25748.6	25681.9	23153.3	17105.0	10905.6	4901.7	2124.2
77.5°	10612.3	10936.7	13349.8	17425.0	21135.7	20709.1	17465.0	10932.3	5177.3	1817.6	1146.6
80°	5186.2	5439.5	7074.9	10061.2	13820.9	13856.4	10838.9	5688.3	2217.6	1026.6	782.1
82.5°	2590.9	2742.0	3399.7	4421.8	6799.3	7123.7	5497.2	3235.2	1373.2	582.2	444.4
85°	1693.2	1799.8	2093.1	2164.2	2884.2	3044.1	2559.8	2524.2	893.2	315.5	360.0
87.5°	1124.3	1142.1	1284.3	1093.2	1155.4	1111.0	1235.4	1591.0	262.2	133.3	97.8
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°	7070.4	7070.4	7070.4	7070.4	7070.4	7070.4	7070.4	7070.4	7070.4	7070.4	7070.4
2.5°	7048.2	6986.0	6919.3	6826.0	6759.3	6657.1	6563.8	6523.8	6514.9	6519.4	6474.9
5°	6866.0	6777.1	6643.8	6452.7	6341.6	6172.7	6030.5	5955.0	5875.0	5888.3	5852.8
7.5°	6612.7	6514.9	6310.5	6088.3	5812.8	5572.8	5439.5	5252.8	5146.2	5066.2	5110.6
10°	6532.7	6363.8	6057.2	5750.6	5323.9	5008.4	4701.8	4488.5	4341.8	4199.6	4261.8
12.5°	6492.7	6323.8	5897.2	5443.9	4892.9	4412.9	3981.8	3719.6	3510.8	3386.3	3435.2
15°	6457.1	6248.3	5746.1	5106.2	4488.5	3857.4	3373.0	3026.4	2826.4	2706.4	2719.7
17.5°	6506.0	6208.3	5523.9	4777.3	4044.1	3368.6	2830.8	2470.9	2266.4	2190.9	2173.1
20°	6457.1	6163.8	5306.1	4448.5	3599.6	2901.9	2386.4	2088.7	1946.5	1884.3	1870.9
22.5°	6474.9	6057.2	5079.5	4084.0	3186.4	2510.9	2088.7	1862.0	1750.9	1719.8	1728.7
25°	6559.4	5995.0	4852.9	3684.1	2777.5	2222.0	1897.6	1724.3	1644.3	1613.2	1622.1
27.5°	6621.6	6048.3	4648.4	3306.3	2430.9	1964.3	1737.6	1622.1	1568.7	1546.5	1542.1
30°	6777.1	6079.4	4448.5	2968.6	2146.5	1795.4	1626.5	1533.2	1497.6	1484.3	1479.9
32.5°	7008.2	6137.2	4217.4	2657.5	1937.6	1635.4	1537.6	1457.6	1448.7	1435.4	1439.9
35°	7385.9	6337.2	3959.6	2390.9	1737.6	1528.7	1444.3	1391.0	1391.0	1391.0	1404.3
37.5°	7928.1	6617.1	3728.5	2137.6	1608.7	1435.4	1364.3	1346.5	1337.6	1351.0	1359.9
40°	8625.8	6954.9	3541.9	1937.6	1497.6	1373.2	1311.0	1302.1	1297.7	1293.2	1302.1
42.5°	9390.2	7385.9	3381.9	1782.0	1417.6	1306.5	1262.1	1253.2	1235.4	1244.3	1257.7
45°	10150.1	7919.2	3239.7	1657.6	1364.3	1271.0	1208.8	1204.3	1195.4	1191.0	1213.2
47.5°	10994.5	8443.6	3195.2	1582.1	1324.3	1217.7	1173.2	1168.8	1142.1	1137.7	1155.4
50°	11652.2	8830.2	3244.1	1546.5	1266.5	1177.7	1146.6	1124.3	1102.1	1079.9	1079.9
52.5°	12105.5	9096.9	3279.7	1519.9	1235.4	1124.3	1084.3	1075.5	1053.2	1031.0	1022.1
55°	12514.3	9256.9	3288.6	1524.3	1204.3	1062.1	1035.5	1031.0	1017.7	982.1	973.2
57.5°	12652.1	9190.2	3110.8	1484.3	1186.6	1022.1	986.6	995.5	977.7	946.6	942.1
60°	12638.8	8728.0	2706.4	1431.0	1146.6	977.7	933.2	959.9	959.9	924.4	919.9
62.5°	11870.0	7661.5	2213.1	1328.8	1102.1	933.2	884.4	924.4	937.7	915.5	911.0
65°	10274.6	6239.4	1848.7	1226.5	1035.5	884.4	835.5	879.9	902.1	893.2	888.8
67.5°	8501.4	4772.9	1537.6	1093.2	951.0	817.7	777.7	808.8	822.1	826.6	831.0
70°	6008.3	3177.5	1284.3	946.6	835.5	746.6	702.2	706.6	702.2	715.5	715.5
72.5°	3266.3	1830.9	1044.3	804.4	719.9	648.8	617.7	595.5	595.5	591.1	591.1
73°	2795.3	1644.3	995.5	782.1	688.8	631.0	595.5	577.7	577.7	573.3	568.8
75°	1568.7	1204.3	853.3	671.0	595.5	551.1	524.4	497.7	493.3	493.3	493.3
77.5°	1031.0	937.7	679.9	537.7	480.0	440.0	431.1	404.4	404.4	404.4	400.0
80°	773.3	737.7	524.4	408.8	368.9	337.7	328.9	311.1	306.6	288.9	293.3
82.5°	515.5	582.2	382.2	288.9	248.9	231.1	231.1	226.6	213.3	191.1	191.1
85°	408.8	475.5	275.5	177.8	146.7	124.4	128.9	124.4	120.0	97.8	93.3
87.5°	75.5	191.1	80.0	48.9	35.6	22.2	22.2	13.3	8.9	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)