

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: P476619

Luminaire Tested: **IFLD-M-SA4D-740-U-T2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P476619
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4D-740-U-T2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens
Light Source: (64) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

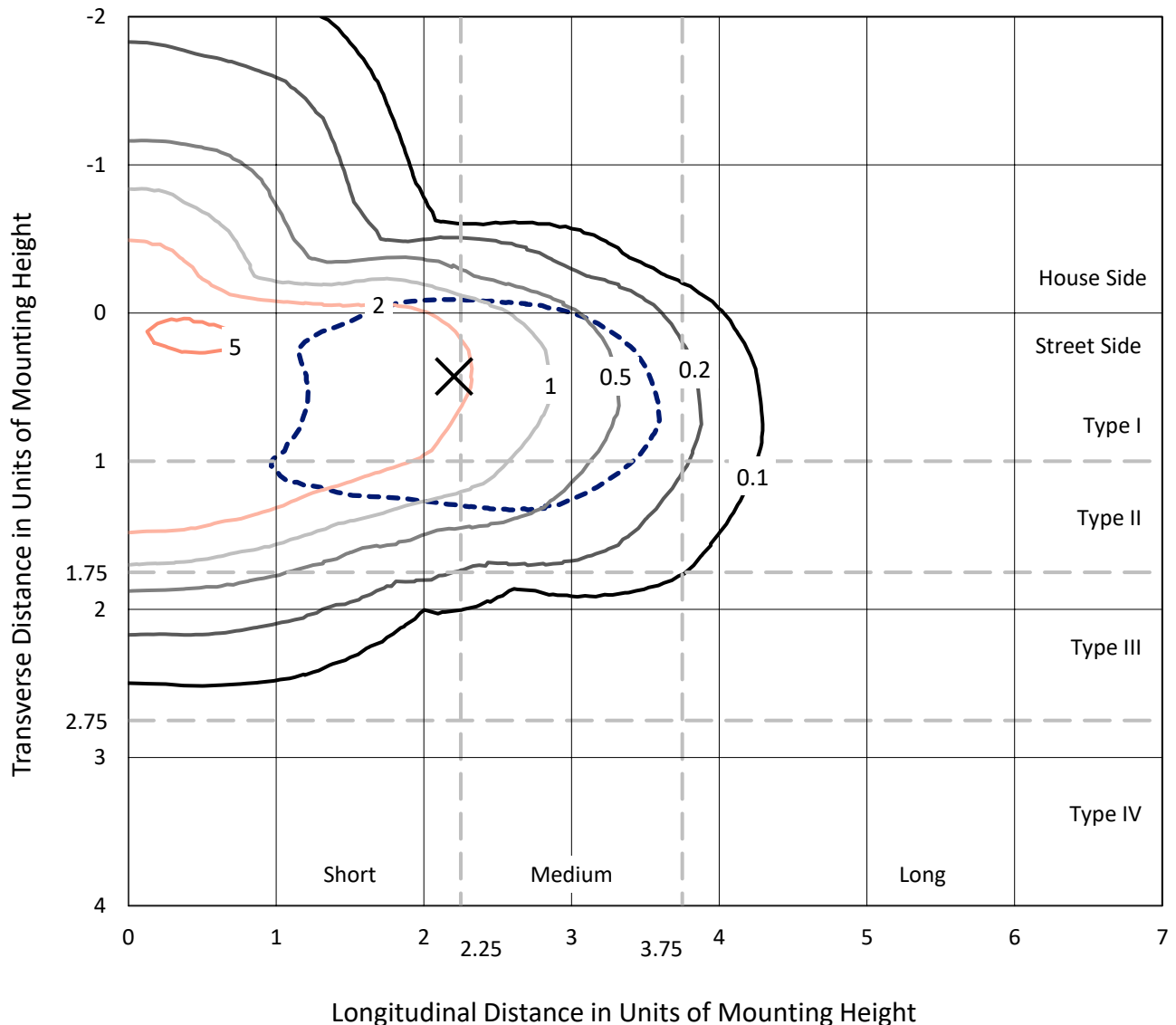
Lumens per Lamp: N/A
Luminaire Lumens: 31246.2 lumens
Efficiency: N/A
Efficacy: 125.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 249.7
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

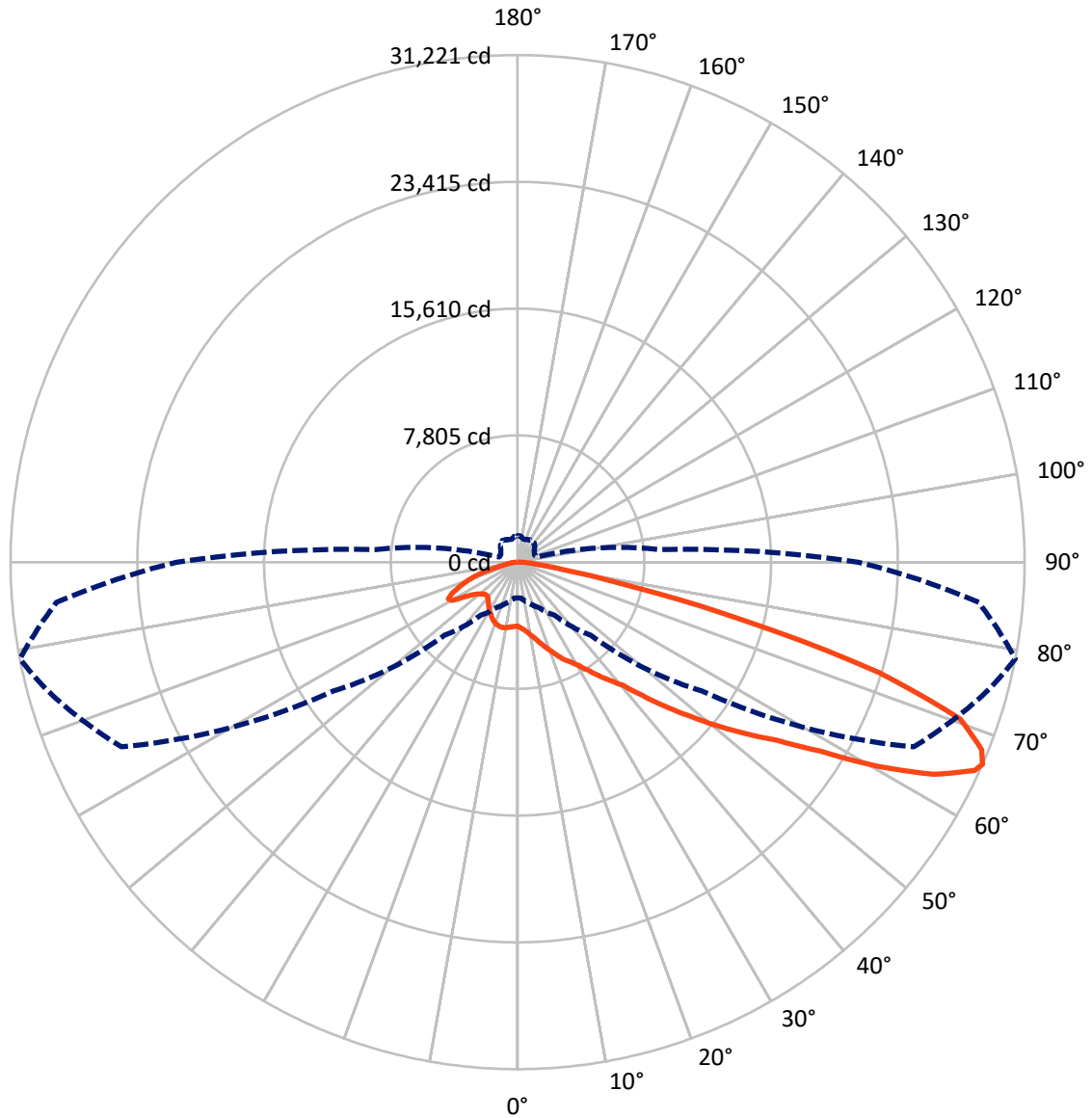
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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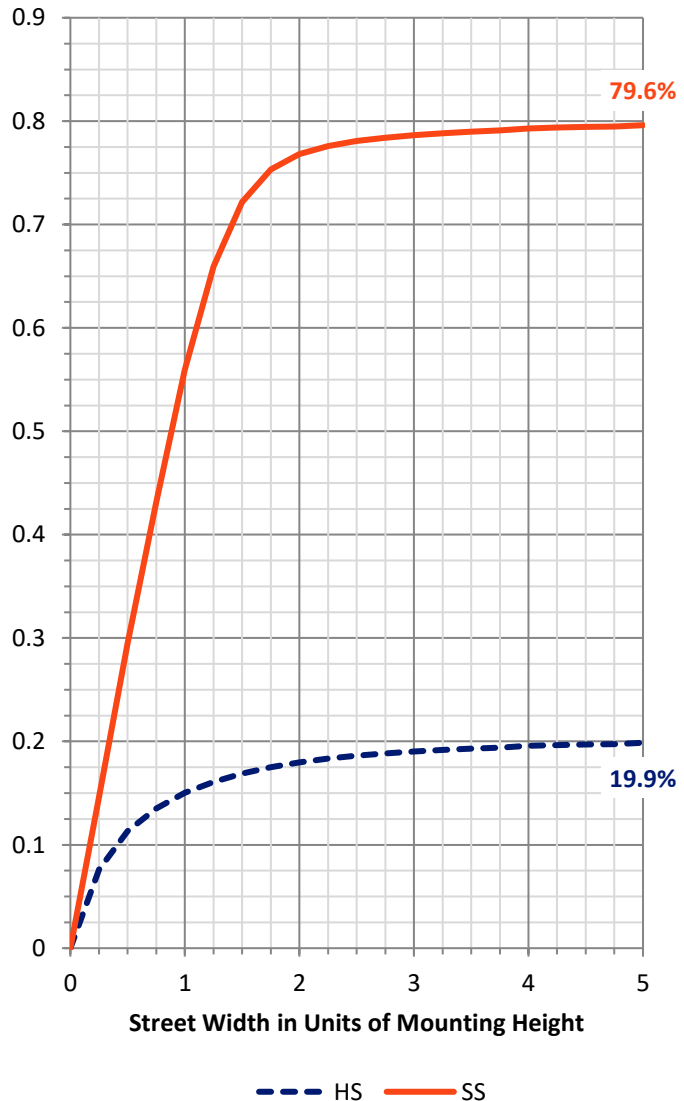
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6309.7	0.0	6309.7
	% Fixture	20.2	0.0	20.2
Street Side	Lumens	24936.4	0.0	24936.4
	% Fixture	79.8	0.0	79.8
Total	Lumens	31246.2	0.0	31246.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	388.0	1.2
10°-20°	1198.0	3.8
20°-30°	2056.4	6.6
30°-40°	3176.8	10.2
40°-50°	5088.4	16.3
50°-60°	7597.3	24.3
60°-70°	7806.2	25.0
70°-80°	3460.4	11.1
80°-90°	474.8	1.5
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°	31246.2	100.0
0°-180°	31246.2	100.0

Coefficient of Utilization



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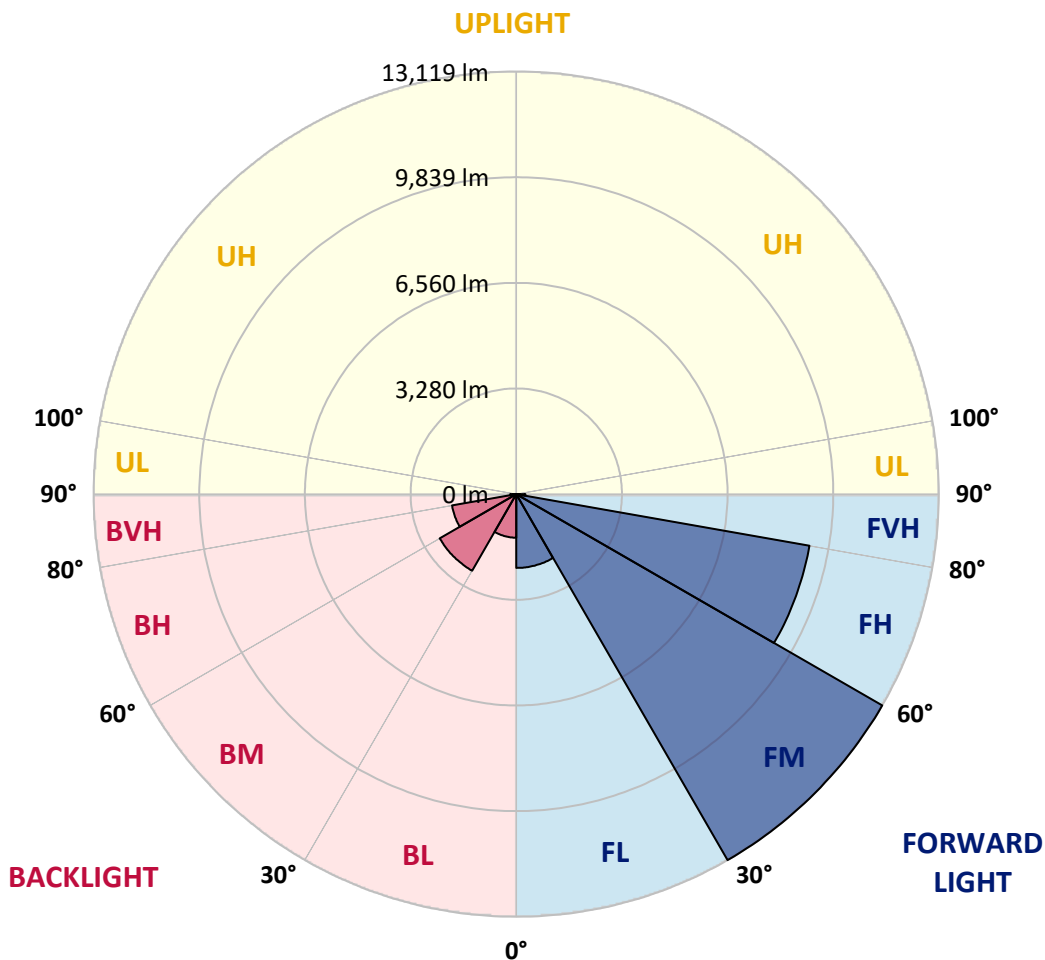
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2290.5	7.3			
FM (30°-60°)	13119.2	42.0			
FH (60°-80°)	9241.9	29.6			G4/12000
FVH (80°-90°)	284.8	0.9			G3/500
BL (0°-30°)	1351.8	4.3	B3/2500		
BM (30°-60°)	2743.2	8.8	B3/5000		
BH (60°-80°)	2024.7	6.5	B3/2500		G3/2500
BVH (80°-90°)	190.0	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	3945.5	3945.5	3945.5	3945.5	3945.5	3945.5	3945.5	3945.5	3945.5	3945.5	3945.5
2.5°	4196.4	4199.9	4199.9	4186.1	4189.5	4199.9	4162.0	4079.6	4079.6	4065.8	4041.8
5°	4454.2	4437.0	4412.9	4416.4	4402.6	4402.6	4361.4	4282.3	4213.6	4186.1	4113.9
7.5°	4488.6	4505.7	4502.3	4543.5	4564.2	4564.2	4584.8	4519.5	4416.4	4351.1	4278.9
10°	4557.3	4512.6	4509.2	4605.4	4636.3	4708.5	4791.0	4756.6	4670.7	4577.9	4481.7
12.5°	4598.5	4626.0	4626.0	4674.1	4746.3	4852.9	4997.2	5062.5	4928.5	4832.2	4684.5
15°	4660.4	4622.6	4732.6	4773.8	4911.3	4986.9	5193.1	5361.5	5272.2	5155.3	4921.6
17.5°	4687.9	4663.8	4725.7	4801.3	5035.0	5148.4	5399.3	5633.0	5557.4	5481.8	5241.2
20°	4828.8	4825.4	4852.9	4914.7	5083.1	5306.5	5619.3	5942.3	5969.8	5832.4	5505.9
22.5°	5172.5	5127.8	5127.8	5103.7	5175.9	5406.2	5828.9	6275.7	6399.4	6237.9	5804.9
25°	5488.7	5550.5	5512.7	5402.8	5375.3	5495.6	5980.2	6629.7	6794.7	6643.5	6210.4
27.5°	5894.2	5914.9	5980.2	5832.4	5643.3	5681.1	6145.1	6829.1	7169.3	6966.5	6440.7
30°	6478.5	6440.7	6426.9	6262.0	6014.5	5963.0	6334.1	7121.2	7660.8	7375.5	6712.2
32.5°	6873.7	6966.5	6963.1	6736.3	6437.3	6323.8	6567.9	7396.1	8186.6	7922.0	7214.0
35°	7657.3	7753.6	7678.0	7344.6	6994.0	6767.2	6904.7	7753.6	8788.1	8581.9	7640.2
37.5°	8657.5	8884.3	8722.8	8107.6	7612.7	7365.2	7372.1	8141.9	9403.3	9234.9	8097.3
40°	9348.3	9654.2	9430.8	8853.4	8327.5	8093.8	8001.0	8602.5	10138.8	9960.0	8812.1
42.5°	10204.1	10458.4	10341.5	9771.0	9155.8	8956.5	8770.9	9372.3	11262.6	11180.1	9729.8
45°	11138.9	11259.2	11221.4	10860.5	10176.6	10107.8	9698.8	10386.2	12585.8	12620.2	10877.7
47.5°	12008.4	12073.7	12145.9	11884.7	11458.5	11516.9	10767.7	11472.3	13871.2	14098.0	12156.2
50°	12231.8	12455.2	12623.6	12798.9	12891.7	13286.9	11946.6	12805.8	15349.1	15789.0	13579.1
52.5°	12005.0	11987.8	12499.9	13049.8	13977.7	14806.0	13551.6	14462.3	16655.1	17524.6	14881.6
55°	10973.9	10939.6	11764.4	12493.0	14304.2	15651.5	15844.0	16668.8	18232.6	19363.3	16644.8
57.5°	9169.6	8956.5	9856.9	11053.0	13596.3	15744.3	18146.7	19944.1	20659.0	21947.8	19335.8
60°	6162.3	6072.9	6935.6	8361.9	11039.2	14428.0	19524.8	24044.3	24078.7	25529.1	23511.6
62.5°	3794.3	3811.5	4364.8	5433.7	7729.5	11437.9	18930.3	27319.7	27326.5	28780.3	26948.5
65°	2481.4	2491.7	2938.5	3529.7	4828.8	7757.0	15654.9	27577.4	29584.6	30935.3	28522.6
66°	2209.9	2213.3	2598.3	3079.4	4000.5	6347.9	13826.5	26907.2	30093.2	31220.5	28501.9
67.5°	1862.8	1907.5	2216.8	2588.0	3120.7	4560.7	10970.5	24968.8	29832.0	30821.8	27855.8
70°	1457.2	1481.3	1725.3	2103.4	2340.5	2639.5	6519.7	20353.1	27305.9	28910.9	25505.0
72.5°	1168.5	1189.2	1374.7	1708.1	1900.6	1739.1	3550.3	14768.2	21569.8	23281.3	20061.0
75°	986.4	989.8	1079.2	1343.8	1563.8	1306.0	1890.3	9478.9	13840.3	14637.6	12290.2
77.5°	797.4	811.1	873.0	1024.2	1257.9	1027.6	1127.3	5310.0	6949.3	7007.8	5681.1
80°	649.6	656.4	694.2	745.8	958.9	759.5	763.0	2591.4	2979.8	2911.0	2309.6
82.5°	512.1	519.0	563.6	553.3	704.6	543.0	474.3	1247.6	1371.3	1343.8	1062.0
85°	288.7	288.7	443.4	443.4	446.8	343.7	288.7	587.7	725.2	677.1	498.3
87.5°	92.8	96.2	134.0	140.9	223.4	154.7	140.9	220.0	343.7	302.4	178.7
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°	3945.5	3945.5	3945.5	3945.5	3945.5	3945.5	3945.5	3945.5	3945.5	3945.5	3945.5
2.5°	4028.0	3973.0	3949.0	3869.9	3849.3	3797.7	3773.7	3742.7	3732.4	3687.8	3729.0
5°	4058.9	4041.8	3945.5	3845.9	3770.2	3735.9	3684.3	3615.6	3608.7	3546.8	3540.0
7.5°	4189.5	4131.1	3962.7	3856.2	3704.9	3619.0	3505.6	3471.2	3426.6	3405.9	3450.6
10°	4392.3	4244.5	3993.6	3725.6	3540.0	3436.9	3354.4	3330.3	3333.8	3320.0	3299.4
12.5°	4536.7	4395.8	3942.1	3615.6	3375.0	3275.3	3268.5	3292.5	3330.3	3313.1	3337.2
15°	4742.9	4478.2	3904.3	3433.4	3241.0	3213.5	3210.0	3282.2	3278.8	3278.8	3275.3
17.5°	4935.3	4560.7	3766.8	3275.3	3100.1	3120.7	3144.7	3141.3	3175.7	3189.4	3213.5
20°	5179.4	4657.0	3574.3	3117.2	2993.5	2986.6	2983.2	2986.6	3021.0	3041.6	3024.4
22.5°	5392.4	4677.6	3412.8	2966.0	2866.3	2838.9	2794.2	2838.9	2821.7	2828.5	2849.2
25°	5578.0	4681.0	3182.5	2852.6	2739.2	2677.3	2643.0	2639.5	2608.6	2605.1	2605.1
27.5°	5732.7	4564.2	2979.8	2694.5	2588.0	2529.5	2526.1	2488.3	2409.2	2357.7	2364.6
30°	5853.0	4474.8	2838.9	2557.0	2453.9	2443.6	2412.7	2326.8	2223.7	2158.4	2158.4
32.5°	6066.1	4296.1	2646.4	2416.1	2364.6	2350.8	2278.6	2203.0	2106.8	2044.9	2034.6
35°	6224.2	4131.1	2519.2	2295.8	2271.8	2244.3	2182.4	2099.9	2072.4	2058.7	2069.0
37.5°	6402.9	3945.5	2364.6	2192.7	2216.8	2165.2	2093.1	2055.2	2151.5	2127.4	2137.7
40°	6688.1	3814.9	2213.3	2130.9	2154.9	2096.5	2003.7	1989.9	2110.2	2024.3	2003.7
42.5°	7210.5	3811.5	2120.5	2038.1	2055.2	2010.6	1928.1	1921.2	1969.3	1866.2	1835.3
45°	7860.1	3931.8	2051.8	1969.3	1955.6	1948.7	1921.2	1890.3	1849.0	1715.0	1680.6
47.5°	8636.9	4127.7	2038.1	1866.2	1883.4	1941.8	1907.5	1828.4	1721.9	1635.9	1618.8
50°	9578.6	4533.2	2003.7	1790.6	1821.5	1914.3	1886.8	1776.9	1680.6	1625.6	1615.3
52.5°	10619.9	5045.3	1959.0	1673.8	1742.5	1890.3	1904.0	1800.9	1660.0	1611.9	1605.0
55°	11846.9	5801.4	1907.5	1546.6	1649.7	1866.2	1904.0	1732.2	1632.5	1632.5	1625.6
57.5°	14269.9	7162.4	1800.9	1429.7	1567.2	1821.5	1849.0	1735.6	1635.9	1635.9	1622.2
60°	17823.6	9286.4	1598.1	1340.4	1488.2	1759.7	1807.8	1684.1	1598.1	1618.8	1615.3
62.5°	20604.0	9932.5	1426.3	1254.5	1409.1	1646.3	1752.8	1629.1	1553.5	1629.1	1635.9
65°	21198.6	9279.5	1251.0	1161.7	1299.1	1536.3	1673.8	1550.0	1488.2	1635.9	1642.8
66°	20985.5	8770.9	1189.2	1134.2	1251.0	1481.3	1625.6	1522.5	1453.8	1629.1	1632.5
67.5°	20036.9	8007.9	1120.4	1075.7	1185.7	1402.2	1570.6	1484.7	1398.8	1608.5	1577.5
70°	17974.8	6791.3	1003.6	972.6	1092.9	1271.6	1443.5	1388.5	1312.9	1481.3	1426.3
72.5°	13843.7	5426.8	879.8	883.3	986.4	1137.6	1316.3	1278.5	1213.2	1299.1	1264.8
75°	8430.6	3467.8	766.4	773.3	859.2	1010.4	1196.0	1168.5	1089.5	1137.6	1120.4
77.5°	3735.9	1718.4	646.1	659.9	728.6	890.1	1041.4	996.7	914.2	924.5	917.6
80°	1450.4	814.5	525.8	543.0	587.7	711.4	862.7	821.4	749.2	735.5	728.6
82.5°	697.7	453.7	405.6	412.4	429.6	567.1	742.4	690.8	594.6	532.7	532.7
85°	350.6	281.8	285.3	261.2	285.3	384.9	501.8	419.3	347.1	309.3	316.2
87.5°	140.9	140.9	140.9	120.3	127.2	182.2	233.7	158.1	144.3	85.9	85.9
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)