

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: P478179

Luminaire Tested: **IFLD-M-SA4D-740-U-T4FT**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478179
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-T4FT
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens
Light Source: (64) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

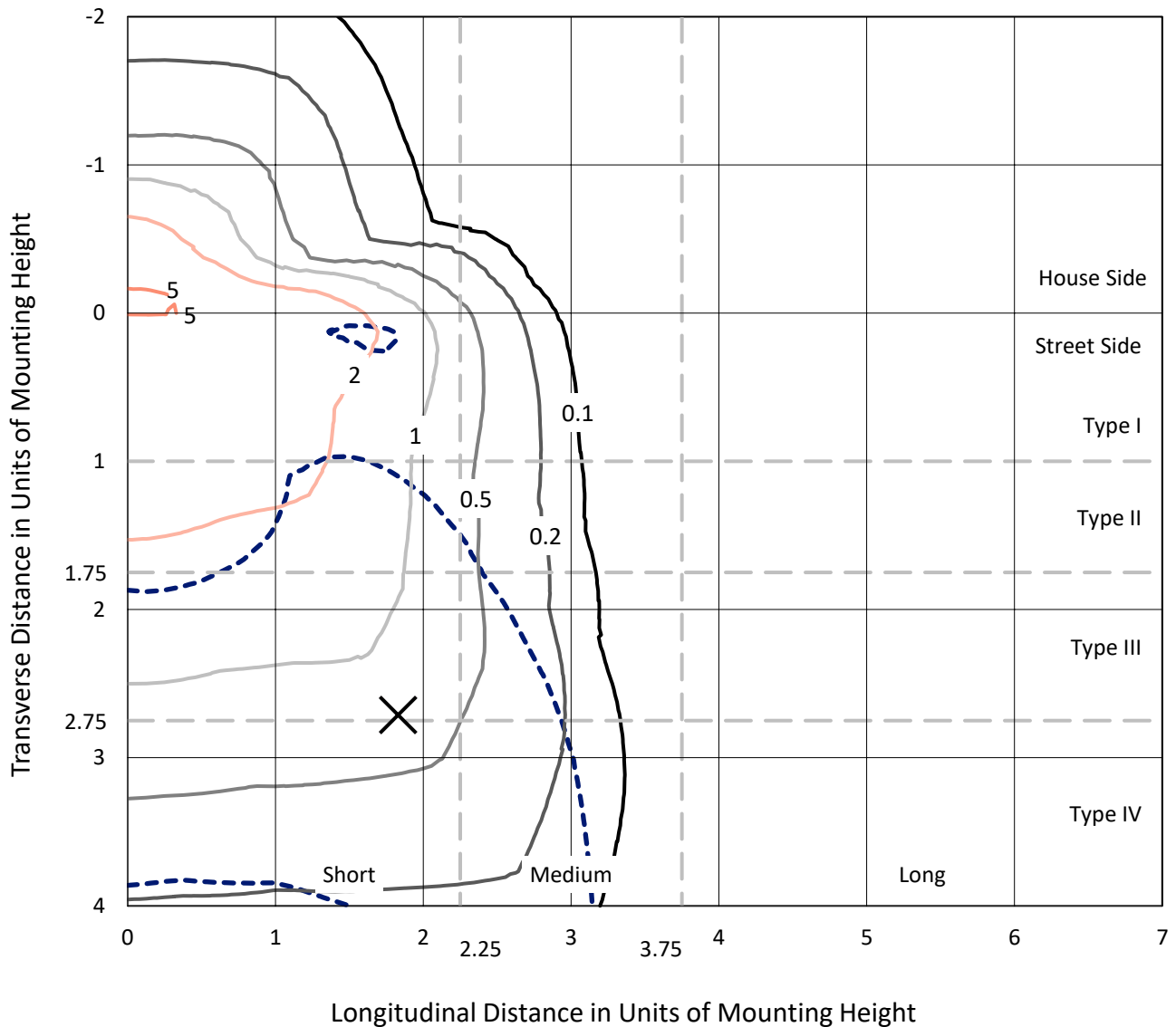
Lumens per Lamp: N/A
Luminaire Lumens: 32050.1 lumens
Efficiency: N/A
Efficacy: 128.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 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

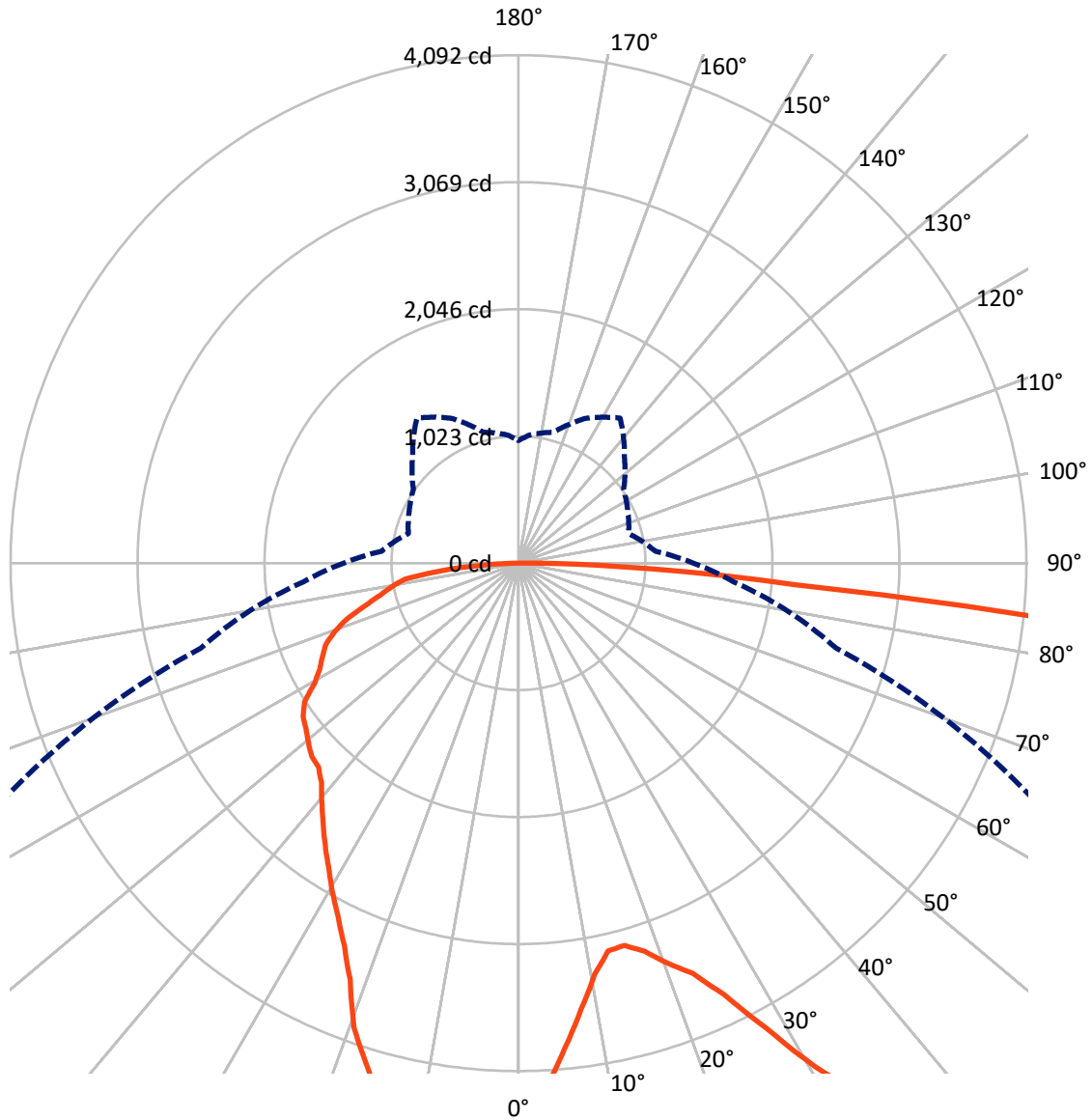
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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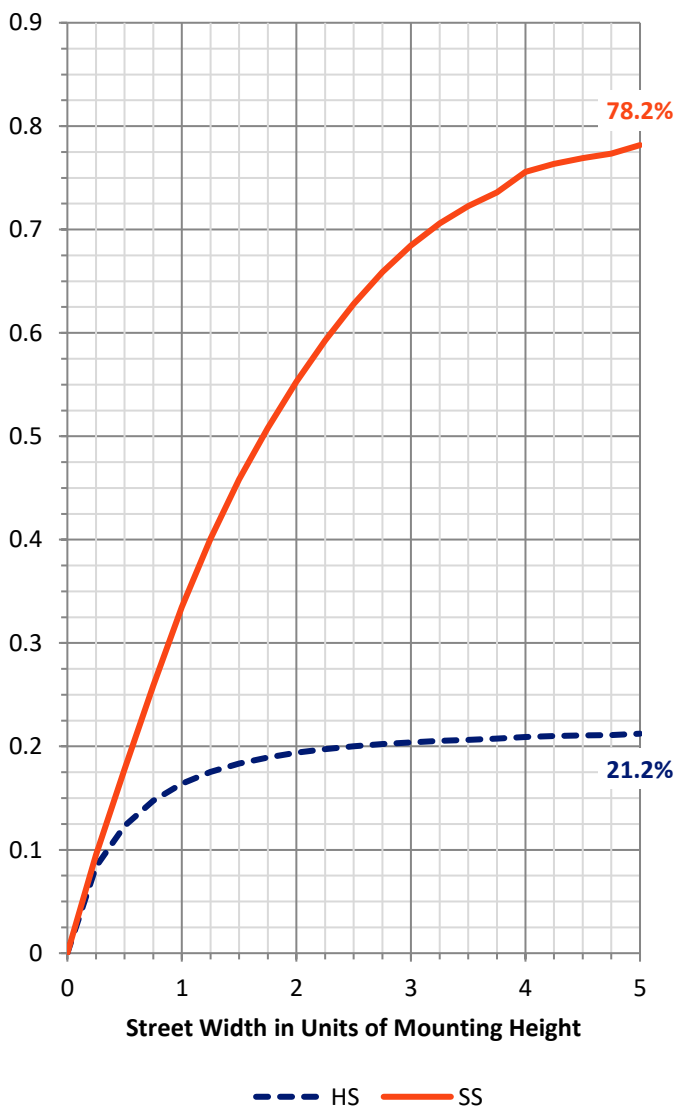
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6923.2	0.0	6923.2
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	25126.9	0.0	25126.9
	% Fixture	78.4	0.0	78.4
Total	Lumens	32050.1	0.0	32050.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	424.1	1.3
10°-20°	1186.8	3.7
20°-30°	1953.4	6.1
30°-40°	2921.2	9.1
40°-50°	4330.6	13.5
50°-60°	6240.9	19.5
60°-70°	7964.2	24.8
70°-80°	6197.5	19.3
80°-90°	831.4	2.6
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°	32050.1	100.0
0°-180°	32050.1	100.0

Coefficient of Utilization



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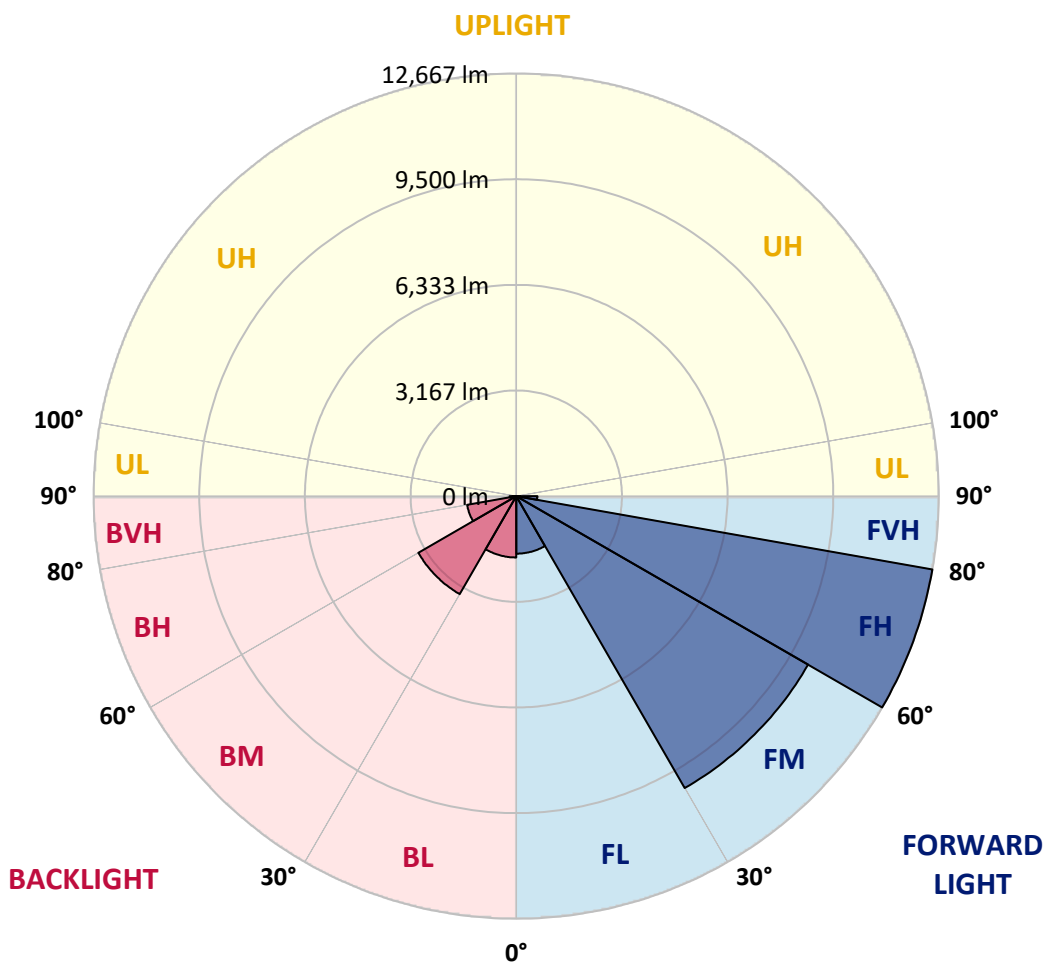
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1724.8	5.4			
FM (30°-60°)	10102.4	31.5			
FH (60°-80°)	12666.8	39.5			G5
FVH (80°-90°)	632.9	2.0			G4/750
BL (0°-30°)	1839.5	5.7	B3/2500		
BM (30°-60°)	3390.3	10.6	B3/5000		
BH (60°-80°)	1494.9	4.7	B3/2500		G3/2500
BVH (80°-90°)	198.6	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-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	4594.9	4594.9	4594.9	4594.9	4594.9	4594.9	4594.9	4594.9	4594.9	4594.9	4594.9
2.5°	4117.1	4130.7	4174.7	4184.9	4232.3	4205.2	4262.8	4364.5	4422.1	4506.8	4608.4
5°	3791.8	3734.2	3761.3	3866.3	3920.6	3934.1	3995.1	4167.9	4276.4	4401.7	4591.5
7.5°	3408.9	3398.7	3452.9	3520.7	3629.1	3639.3	3774.9	3927.3	4151.0	4428.8	4652.5
10°	3148.0	3192.0	3222.5	3293.7	3368.2	3368.2	3541.0	3805.4	4059.5	4327.2	4666.0
12.5°	3134.4	3107.3	3114.1	3151.4	3205.6	3273.3	3436.0	3673.2	3995.1	4306.9	4723.7
15°	3178.5	3188.6	3127.6	3175.1	3195.4	3219.1	3398.7	3666.4	3954.4	4378.0	4821.9
17.5°	3412.3	3354.7	3259.8	3215.7	3286.9	3286.9	3408.9	3619.0	3961.2	4415.3	4964.2
20°	3595.3	3595.3	3439.4	3391.9	3442.8	3432.6	3517.3	3673.2	3995.1	4489.8	5123.5
22.5°	3903.6	3947.7	3690.1	3591.9	3588.5	3615.6	3690.1	3822.3	4090.0	4594.9	5276.0
25°	4347.5	4357.7	4059.5	3957.8	3849.4	3893.5	3907.0	4039.2	4174.7	4716.9	5448.8
27.5°	4842.3	4835.5	4561.0	4306.9	4235.7	4245.9	4171.3	4259.4	4300.1	4754.1	5696.2
30°	5391.2	5330.2	5123.5	4764.3	4706.7	4642.3	4479.7	4476.3	4561.0	4964.2	6038.4
32.5°	5750.4	5672.4	5530.1	5272.6	5113.3	5120.1	4862.6	4859.2	4784.6	5194.7	6336.6
35°	6102.8	5984.2	5946.9	5682.6	5523.4	5540.3	5333.6	5306.5	5170.9	5543.7	6827.9
37.5°	6526.4	6421.3	6478.9	6279.0	6082.5	6001.1	5906.3	5872.4	5696.2	6035.0	7498.9
40°	6994.0	6960.1	6922.8	6824.6	6706.0	6712.7	6611.1	6577.2	6316.3	6628.0	8142.7
42.5°	7624.3	7495.5	7302.3	7366.7	7427.7	7492.1	7458.2	7370.1	7099.0	7231.2	8861.1
45°	8210.5	8041.1	7685.3	7705.6	7956.3	8007.2	8417.2	8407.0	7861.5	7997.0	9677.7
47.5°	8606.9	8529.0	8315.5	8291.8	8651.0	8647.6	9386.3	9386.3	8664.5	8759.4	10555.4
50°	9196.6	8993.2	8901.7	9020.3	9203.3	9328.7	10375.8	10440.2	9454.1	9555.7	11704.1
52.5°	9887.8	9633.7	9403.3	9708.2	10033.5	10114.9	11355.1	11328.0	10060.6	10480.8	13049.3
55°	10460.5	10331.7	10172.5	10348.7	10880.7	10982.3	12337.7	12087.0	10667.2	11246.6	13696.6
57.5°	11128.0	11206.0	11239.9	11195.8	11829.5	11988.7	13459.4	12741.0	11189.0	11761.7	14076.1
60°	12134.4	12181.9	12225.9	12331.0	13001.9	13225.5	14347.2	13561.0	11517.7	12059.9	14106.6
62.5°	13666.1	13483.1	13581.3	13943.9	14482.7	14736.8	15655.1	14137.1	11768.5	12239.5	13110.3
65°	15417.9	15170.6	15068.9	15536.5	16932.6	16729.3	17288.4	14567.4	11405.9	11568.5	11117.9
67.5°	17193.6	17220.7	16959.7	17898.4	19609.6	19609.6	18806.5	14774.1	10423.2	9376.1	7797.1
70°	18603.2	18687.9	18830.2	20649.9	23360.7	23770.7	20687.2	13927.0	8420.6	6241.7	4262.8
72.5°	18582.9	18328.7	19057.3	22408.5	26769.6	26427.4	21080.2	11012.8	5255.7	3056.5	1955.2
73°	18166.1	17952.6	18748.9	22391.6	26908.6	26586.6	20792.2	10152.1	4635.6	2649.9	1738.3
75°	14835.1	14448.8	15804.2	20280.5	24895.7	25143.1	17664.6	6621.2	2541.4	1633.3	1223.3
77.5°	6763.6	6933.0	8698.4	13605.1	19186.0	19477.4	11612.6	2863.3	1392.7	1145.3	901.4
80°	2172.1	2280.5	3385.2	6763.6	12026.0	12551.2	5367.5	1301.2	992.8	877.6	674.3
82.5°	830.2	826.8	1419.8	2812.5	5699.6	6035.0	1962.0	792.9	738.7	647.2	477.8
85°	291.4	305.0	535.4	1111.4	2243.2	2348.3	681.1	440.5	511.7	433.7	274.5
87.5°	101.7	105.0	189.8	403.2	772.6	816.6	189.8	176.2	254.1	250.8	138.9
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°	4594.9	4594.9	4594.9	4594.9	4594.9	4594.9	4594.9	4594.9	4594.9	4594.9	4594.9
2.5°	4642.3	4672.8	4683.0	4805.0	4805.0	4805.0	4852.4	4852.4	4838.9	4805.0	4886.3
5°	4662.7	4716.9	4821.9	4927.0	4954.1	4977.8	5042.2	4988.0	5008.3	4974.4	5004.9
7.5°	4720.3	4794.8	4991.3	5055.7	5011.7	5062.5	4994.7	4957.5	4920.2	4933.7	4886.3
10°	4818.5	4913.4	5004.9	5123.5	5038.8	4988.0	4849.0	4815.1	4696.5	4655.9	4693.2
12.5°	4940.5	5055.7	5211.6	5167.6	5004.9	4859.2	4710.1	4567.8	4496.6	4395.0	4422.1
15°	5062.5	5194.7	5218.4	5143.8	4940.5	4757.5	4486.5	4286.5	4215.4	4123.9	4171.3
17.5°	5194.7	5320.0	5279.4	5086.2	4811.8	4533.9	4225.5	4029.0	3879.9	3822.3	3822.3
20°	5391.2	5452.2	5387.8	4991.3	4655.9	4289.9	3991.7	3768.1	3619.0	3595.3	3558.0
22.5°	5543.7	5642.0	5353.9	4852.4	4428.8	3971.4	3629.1	3544.4	3500.4	3463.1	3415.7
25°	5740.2	5736.8	5292.9	4723.7	4039.2	3591.9	3385.2	3378.4	3358.1	3344.5	3408.9
27.5°	5926.6	5848.7	5221.8	4405.1	3635.9	3303.8	3192.0	3266.6	3297.1	3276.7	3303.8
30°	6221.4	6092.6	5120.1	4066.3	3280.1	3012.4	3032.8	3134.4	3185.2	3215.7	3175.1
32.5°	6533.1	6336.6	4910.0	3713.9	2965.0	2829.4	2876.9	2981.9	3042.9	3076.8	3114.1
35°	6983.8	6526.4	4696.5	3253.0	2738.0	2717.6	2744.7	2802.3	2890.4	2914.2	2924.3
37.5°	7539.5	6814.4	4408.5	2883.7	2561.8	2585.5	2612.6	2632.9	2636.3	2680.4	2663.4
40°	8095.3	7058.4	3988.3	2531.3	2378.8	2507.5	2494.0	2456.7	2426.2	2385.5	2375.4
42.5°	8583.2	7271.8	3520.7	2233.1	2216.1	2426.2	2382.2	2287.3	2216.1	2185.6	2134.8
45°	9132.2	7573.4	3049.7	2046.7	2090.7	2327.9	2314.4	2168.7	2077.2	1968.8	1955.2
47.5°	9843.8	7888.6	2599.0	1853.5	1972.1	2290.7	2297.4	2111.1	1978.9	1833.2	1812.9
50°	10755.3	8342.6	2256.8	1772.2	1901.0	2236.4	2246.6	2033.1	1860.3	1711.2	1697.7
52.5°	11629.5	8806.9	1972.1	1646.8	1853.5	2172.1	2195.8	1962.0	1762.1	1575.7	1585.8
55°	12070.1	8637.4	1728.2	1555.3	1745.1	2067.0	2155.1	1911.1	1613.0	1484.2	1480.8
57.5°	12168.3	8220.6	1535.0	1460.5	1653.6	1955.2	2087.4	1758.7	1545.2	1436.7	1423.2
60°	11846.4	7492.1	1382.5	1358.8	1538.4	1840.0	1931.5	1677.3	1477.4	1389.3	1369.0
62.5°	11053.5	6736.5	1277.5	1311.4	1440.1	1714.6	1833.2	1619.7	1413.0	1352.0	1308.0
65°	9064.4	5540.3	1192.8	1219.9	1338.5	1592.6	1772.2	1555.3	1355.4	1297.8	1294.4
67.5°	6279.0	3818.9	1125.0	1175.8	1257.2	1504.5	1711.2	1484.2	1280.9	1260.5	1233.4
70°	3215.7	2036.5	1036.9	1077.6	1169.1	1392.7	1602.8	1409.6	1202.9	1199.6	1165.7
72.5°	1629.9	1192.8	935.2	996.2	1060.6	1247.0	1467.2	1311.4	1104.7	1067.4	1013.2
73°	1409.6	1104.7	918.3	972.5	1033.5	1206.3	1426.6	1287.7	1091.1	1036.9	986.1
75°	1026.7	870.9	823.4	877.6	925.1	1087.7	1291.0	1179.2	1003.0	945.4	898.0
77.5°	769.2	670.9	684.5	745.5	786.1	938.6	1148.7	1067.4	908.1	830.2	809.9
80°	565.9	511.7	565.9	623.5	654.0	826.8	1047.1	925.1	765.8	677.7	660.8
82.5°	403.2	372.7	437.1	474.4	488.0	684.5	942.0	738.7	579.4	464.2	427.0
85°	230.4	227.0	294.8	291.4	301.6	399.9	620.1	491.3	372.7	284.6	277.9
87.5°	101.7	111.8	149.1	118.6	125.4	189.8	264.3	183.0	152.5	84.7	64.4
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)