

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: P478640

Luminaire Tested: **IFLD-S-SA6B-760-U-T4W**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478640
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6B-760-U-T4W
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens
Light Source: (96) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

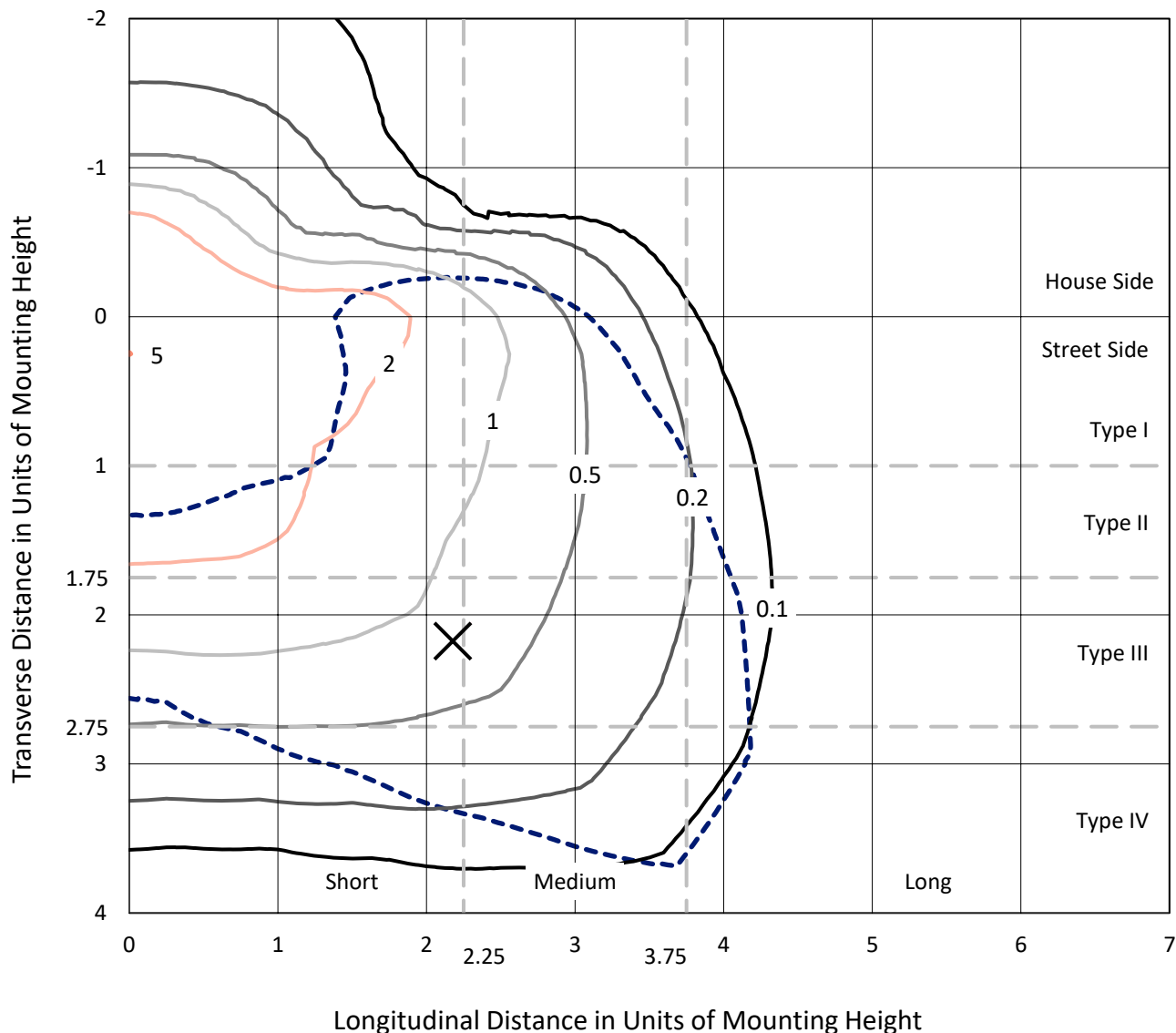
Lumens per Lamp: N/A
Luminaire Lumens: 34512.1 lumens
Efficiency: N/A
Efficacy: 140.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 244.9
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

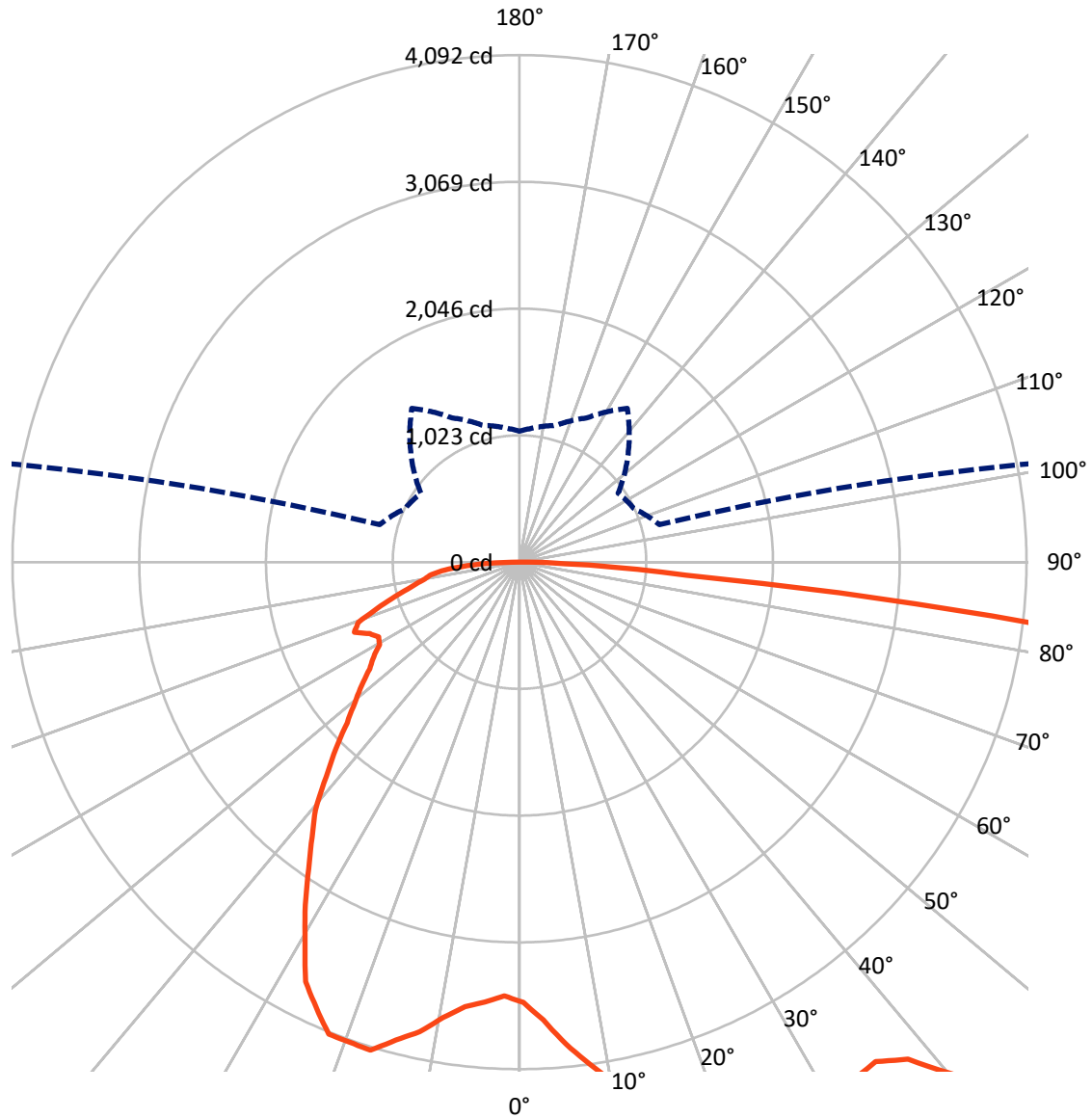
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

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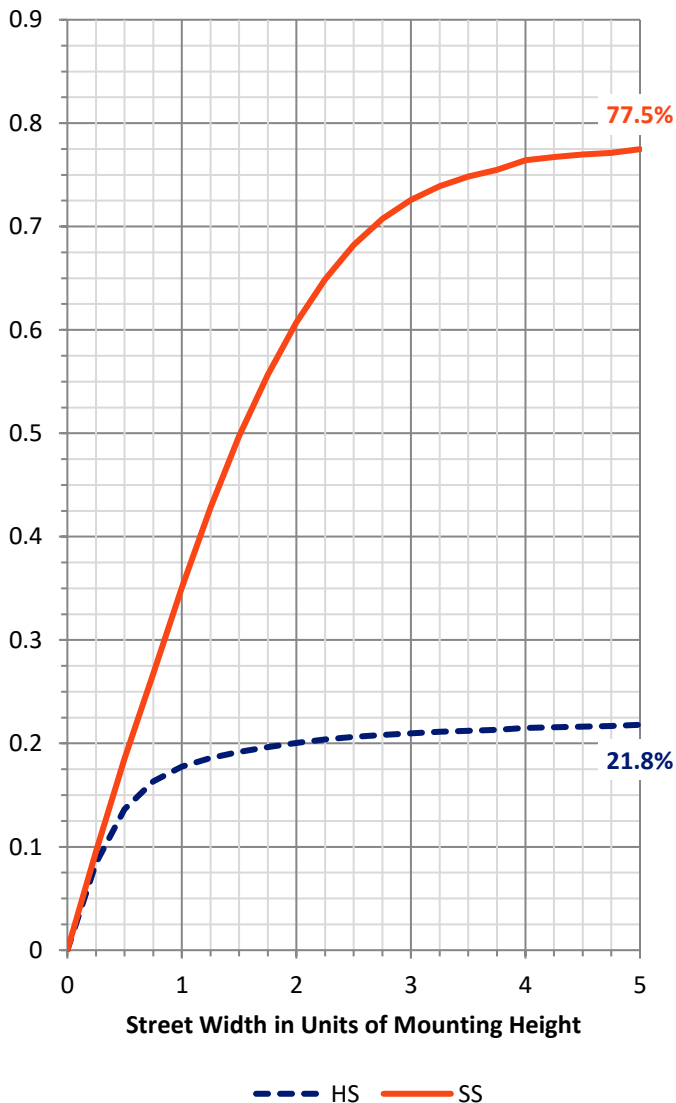
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7682.6	0.0	7682.6
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	26829.5	0.0	26829.5
	% Fixture	77.7	0.0	77.7
Total	Lumens	34512.1	0.0	34512.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	363.7	1.1
10°-20°	1210.0	3.5
20°-30°	2043.4	5.9
30°-40°	2827.7	8.2
40°-50°	4044.7	11.7
50°-60°	6523.7	18.9
60°-70°	9621.5	27.9
70°-80°	6986.9	20.2
80°-90°	890.7	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°	34512.1	100.0
0°-180°	34512.1	100.0



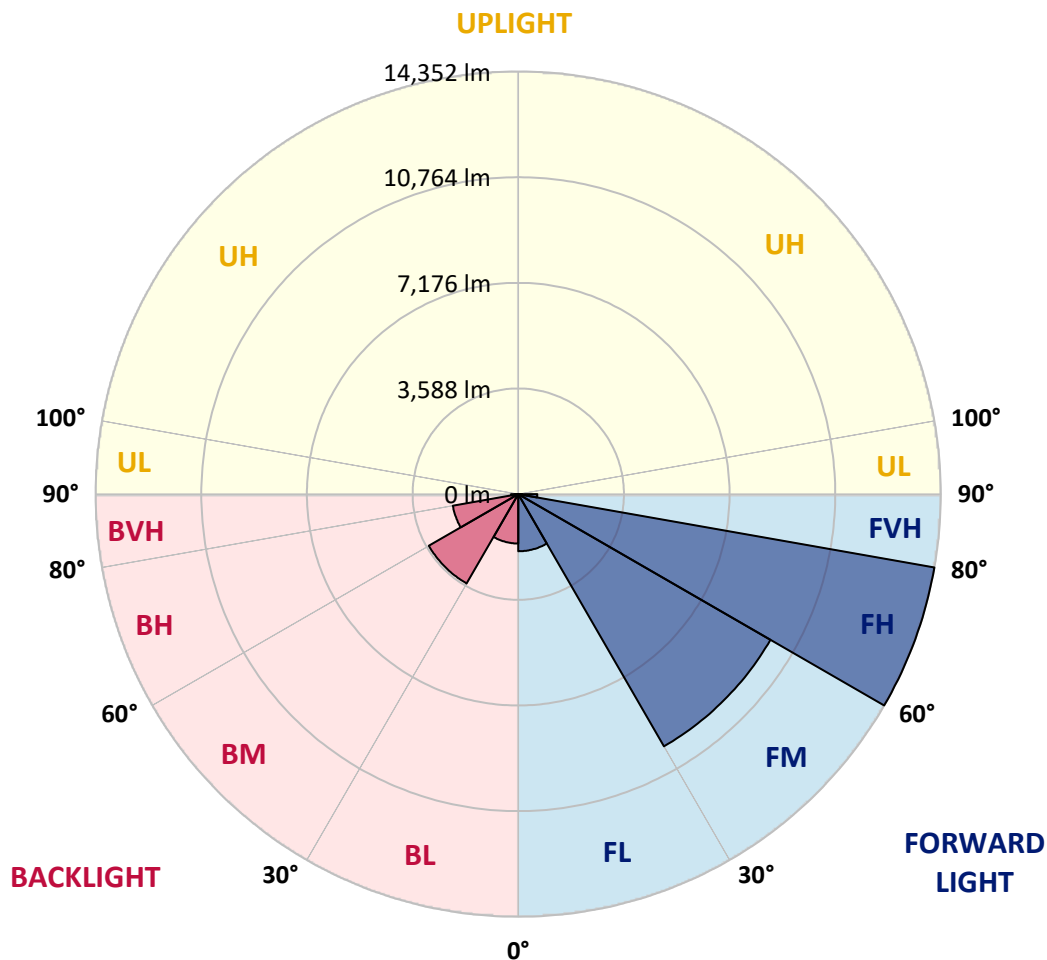
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1939.6	5.6			
FM (30°-60°)	9890.0	28.7			
FH (60°-80°)	14351.7	41.6			G5
FVH (80°-90°)	648.3	1.9			G4/750
BL (0°-30°)	1677.4	4.9	B3/2500		
BM (30°-60°)	3506.1	10.2	B3/5000		
BH (60°-80°)	2256.7	6.5	B3/2500		G3/2500
BVH (80°-90°)	242.4	0.7			G3/500
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°	44°	45°	55°	65°	75°	85°
0°	3554.1	3554.1	3554.1	3554.1	3554.1	3554.1	3554.1	3554.1	3554.1	3554.1	3554.1
2.5°	3743.9	3766.3	3743.9	3740.2	3703.0	3676.9	3699.3	3665.8	3628.6	3613.7	3580.2
5°	4086.3	4090.0	4049.1	4052.8	3974.7	3892.8	3907.7	3807.2	3699.3	3658.3	3591.3
7.5°	4436.1	4395.2	4335.7	4317.1	4194.2	4104.9	4093.8	4004.4	3837.0	3743.9	3650.9
10°	4663.2	4678.0	4581.3	4499.4	4395.2	4287.3	4283.6	4116.1	4019.3	3881.6	3762.5
12.5°	4864.1	4867.8	4786.0	4655.7	4525.5	4391.5	4410.1	4335.7	4171.9	4041.7	3922.6
15°	5020.4	4998.1	4908.8	4789.7	4652.0	4547.8	4536.6	4473.4	4335.7	4227.7	4030.5
17.5°	5065.1	5053.9	4964.6	4838.1	4704.1	4625.9	4655.7	4551.5	4495.7	4398.9	4209.1
20°	4979.5	4953.4	4938.6	4797.1	4700.4	4692.9	4666.9	4689.2	4596.2	4506.9	4369.2
22.5°	4823.2	4812.0	4804.6	4692.9	4648.3	4681.8	4726.4	4759.9	4745.0	4659.4	4503.1
25°	4663.2	4715.3	4666.9	4614.8	4678.0	4763.6	4752.5	4860.4	4860.4	4834.4	4704.1
27.5°	4774.8	4741.3	4704.1	4678.0	4700.4	4834.4	4826.9	4957.2	5005.5	4957.2	4808.3
30°	5053.9	5020.4	4912.5	4797.1	4767.4	4912.5	4949.7	5065.1	5087.4	4968.3	4841.8
32.5°	5578.7	5560.1	5388.9	5050.2	4867.8	4949.7	4968.3	5098.6	5080.0	5005.5	4953.4
35°	6356.5	6293.2	6055.0	5481.9	5080.0	4998.1	4949.7	5053.9	5124.6	5087.4	5039.0
37.5°	7208.7	7138.0	6844.0	6118.3	5463.3	5128.4	5091.1	5176.7	5258.6	5240.0	5139.5
40°	8023.8	8023.8	7759.5	6914.7	6032.7	5444.7	5452.1	5355.4	5429.8	5396.3	5414.9
42.5°	8827.6	8797.9	8689.9	7848.8	6643.1	5973.2	5854.1	5612.2	5746.1	5735.0	5761.0
45°	9642.7	9620.3	9590.6	8719.7	7517.6	6687.7	6624.4	6189.0	6311.8	6259.7	6371.4
47.5°	10293.9	10320.0	10320.0	9691.0	8451.7	7640.4	7547.4	6858.9	7093.4	7119.4	7145.5
50°	10848.5	10859.6	10848.5	10617.7	9493.8	8730.9	8541.1	7841.4	8075.9	8280.6	8518.7
52.5°	11615.1	11630.0	11577.9	11488.6	10908.0	9877.1	9665.0	8887.2	9367.3	9583.1	10011.1
55°	12560.4	12448.7	12352.0	12419.0	12266.4	11138.7	10919.2	9966.4	10688.4	10975.0	11831.0
57.5°	12735.3	12832.1	13077.7	13609.9	13829.5	12366.9	12240.3	11291.3	12180.8	12430.1	13859.2
60°	13353.1	13193.1	13796.0	14949.7	15195.3	13967.2	13836.9	12742.7	13665.7	13926.2	15731.2
62.5°	13758.7	13751.3	14644.5	16014.0	16572.3	15627.0	15362.8	14629.6	15269.7	15522.8	17770.6
65°	13639.7	13747.6	15333.0	16639.3	17722.2	17513.8	17361.2	16252.2	17097.0	17074.7	19099.2
67.5°	12552.9	12858.1	14897.6	17089.6	19434.2	19813.8	19765.4	18533.6	18581.9	18109.3	19691.0
70°	11045.7	10941.5	13055.4	16620.7	20290.1	22541.7	22530.5	20230.6	19918.0	18336.3	17993.9
72°	8485.2	8369.9	10107.9	14272.3	19839.8	23632.1	23967.1	21406.6	19903.1	17394.7	14864.1
72.5°	7703.7	7603.2	9333.8	13435.0	19341.1	23915.0	23758.7	21451.3	19746.8	16951.9	13885.3
75°	3546.7	3431.3	4663.2	8224.7	15087.4	21190.8	21723.0	20074.3	17245.9	13494.5	8317.8
77.5°	1056.9	1023.4	1499.8	3319.7	8768.1	15612.1	15816.8	15146.9	12039.4	7391.1	3085.2
80°	588.0	591.7	774.1	1243.0	3855.6	9024.9	9761.7	9356.1	5906.2	2441.4	1027.2
82.5°	327.5	346.1	483.8	736.9	1771.5	4142.1	4458.5	4298.4	2136.2	1146.3	562.0
85°	171.2	178.6	253.1	394.5	1004.8	1310.0	1347.2	1444.0	1109.0	781.5	301.4
87.5°	67.0	67.0	93.0	163.8	372.2	405.7	364.7	442.9	636.4	506.1	148.9
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°	3554.1	3554.1	3554.1	3554.1	3554.1	3554.1	3554.1	3554.1	3554.1	3554.1	3554.1
2.5°	3609.9	3580.2	3576.5	3528.1	3543.0	3502.0	3505.7	3498.3	3502.0	3494.6	3476.0
5°	3591.3	3569.0	3505.7	3546.7	3509.5	3561.6	3602.5	3587.6	3598.8	3595.1	3598.8
7.5°	3617.4	3587.6	3580.2	3557.8	3591.3	3613.7	3647.2	3740.2	3732.8	3743.9	3766.3
10°	3695.5	3662.1	3639.7	3673.2	3654.6	3725.3	3762.5	3810.9	3896.5	3900.2	3855.6
12.5°	3848.1	3825.8	3781.1	3788.6	3851.9	3874.2	3896.5	3926.3	3982.1	3970.9	4011.9
15°	4023.0	3974.7	3948.6	3941.2	3956.1	3982.1	3978.4	4008.2	4037.9	4064.0	4052.8
17.5°	4149.6	4086.3	4093.8	4131.0	4127.3	4119.8	4071.4	4056.5	4071.4	4086.3	4078.9
20°	4279.8	4287.3	4231.5	4198.0	4183.1	4108.6	4071.4	4026.8	3982.1	4004.4	4037.9
22.5°	4443.6	4410.1	4328.2	4227.7	4153.3	4108.6	3993.3	3915.1	3915.1	3937.4	3926.3
25°	4629.7	4559.0	4417.5	4235.2	4142.1	3952.3	3870.5	3859.3	3829.5	3863.0	3877.9
27.5°	4774.8	4711.5	4518.0	4209.1	3952.3	3799.8	3751.4	3736.5	3784.9	3788.6	3848.1
30°	4834.4	4815.7	4532.9	4142.1	3758.8	3513.2	3483.4	3550.4	3602.5	3680.7	3684.4
32.5°	4912.5	4920.0	4555.2	3985.8	3505.7	3260.1	3215.5	3297.3	3446.2	3509.5	3557.8
35°	5042.8	5080.0	4536.6	3792.3	3237.8	3003.3	2995.9	3018.2	3163.4	3275.0	3338.3
37.5°	5269.8	5262.3	4532.9	3561.6	3025.7	2780.0	2720.5	2727.9	2824.7	2917.7	2906.6
40°	5575.0	5545.2	4521.7	3260.1	2750.3	2590.2	2489.7	2452.5	2445.1	2419.0	2426.5
42.5°	5991.8	5932.2	4518.0	2954.9	2500.9	2329.7	2259.0	2162.2	2091.5	1957.6	1965.0
45°	6572.3	6468.1	4421.3	2668.4	2255.3	2113.9	2005.9	1935.2	1782.6	1615.2	1615.2
47.5°	7469.2	7130.6	4425.0	2352.0	2017.1	1901.7	1827.3	1704.5	1540.7	1406.8	1391.9
50°	8790.4	8016.3	4298.4	2102.7	1823.6	1745.4	1667.3	1525.9	1369.5	1276.5	1287.7
52.5°	10494.9	9337.5	4294.7	1879.4	1671.0	1615.2	1529.6	1403.0	1287.7	1228.1	1205.8
55°	12526.9	11086.6	4428.7	1697.0	1514.7	1484.9	1447.7	1343.5	1231.8	1179.7	1176.0
57.5°	14607.3	12794.9	4644.6	1566.8	1380.7	1403.0	1377.0	1295.1	1205.8	1146.3	1138.8
60°	16456.9	14149.5	4209.1	1410.5	1261.6	1310.0	1347.2	1276.5	1228.1	1224.4	1198.4
62.5°	17852.5	14730.1	3200.6	1291.4	1198.4	1287.7	1388.2	1432.8	1410.5	1440.3	1444.0
65°	18362.4	14380.3	2203.2	1228.1	1150.0	1339.8	1563.1	1548.2	1417.9	1362.1	1391.9
67.5°	17647.8	12962.3	1633.8	1153.7	1116.5	1447.7	1663.6	1477.5	1280.2	1272.8	1250.5
70°	15176.7	10986.2	1332.3	1075.5	1060.7	1388.2	1618.9	1369.5	1205.8	1157.4	1135.1
72°	12091.5	8556.0	1168.6	1019.7	971.3	1239.3	1514.7	1284.0	1142.5	1083.0	1056.9
72.5°	11038.3	7930.7	1146.3	993.7	952.7	1205.8	1462.6	1257.9	1127.6	1075.5	1034.6
75°	6055.0	4060.3	1008.6	911.8	803.9	1042.0	1354.7	1179.7	1064.4	989.9	982.5
77.5°	2251.6	1574.2	870.9	807.6	695.9	900.6	1231.8	1120.2	967.6	874.6	856.0
80°	863.4	829.9	710.8	681.1	584.3	789.0	1135.1	1004.8	822.5	729.4	699.7
82.5°	524.7	483.8	539.6	532.2	446.6	718.3	1068.1	941.6	729.4	591.7	573.1
85°	286.6	286.6	375.9	361.0	312.6	573.1	807.6	625.2	461.5	379.6	387.0
87.5°	126.5	148.9	201.0	189.8	171.2	323.8	394.5	331.2	230.7	156.3	167.5
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)