

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: P481138

Luminaire Tested: **IFLD-S-SA6D-722-U-RW**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481138
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6D-722-U-RW
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ RW distribution lens
Light Source: (96) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

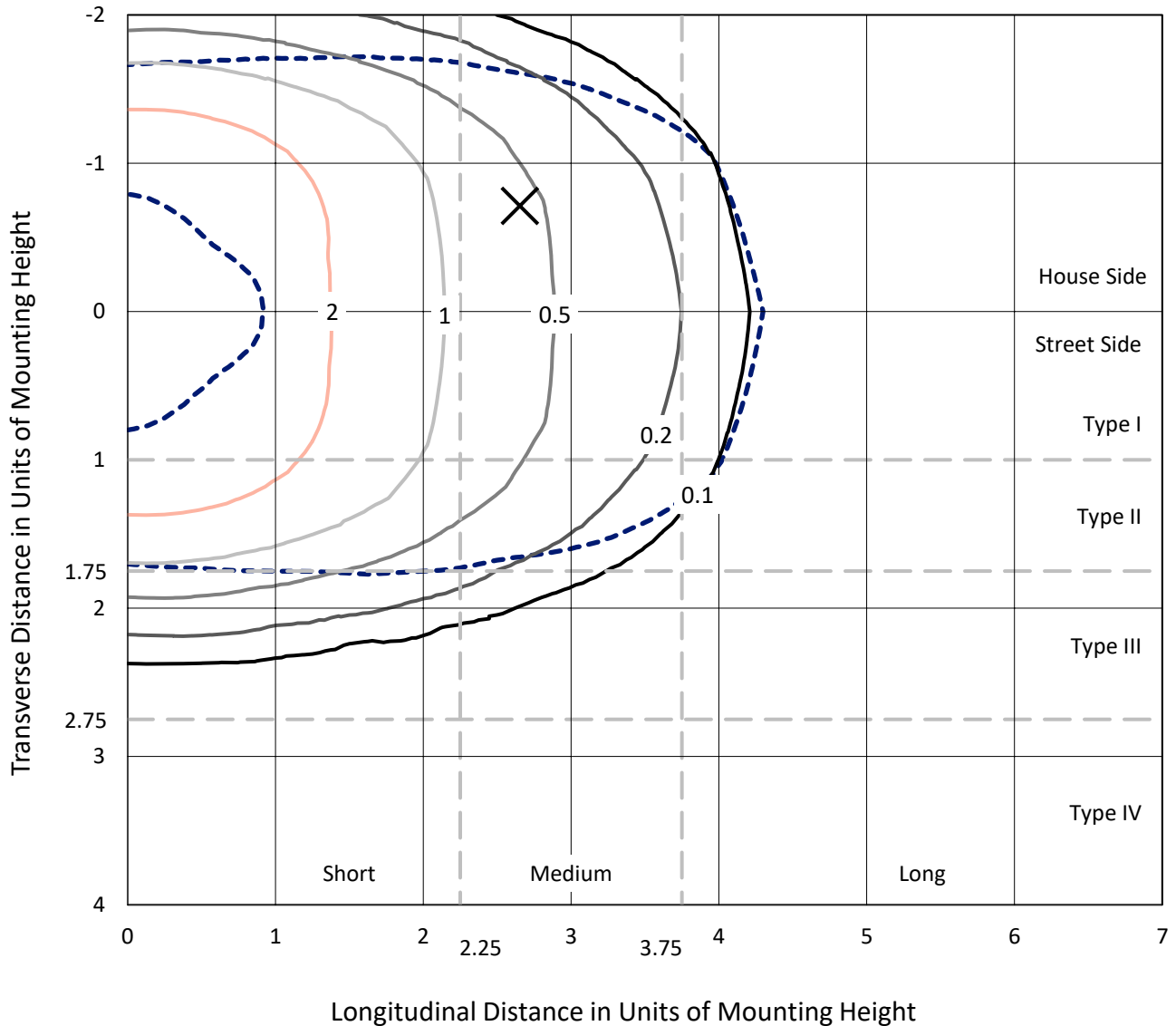
Lumens per Lamp: N/A
Luminaire Lumens: 34690 lumens
Efficiency: N/A
Efficacy: 94.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B5 - U0 - G5

Input Watts (W): 368.2
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

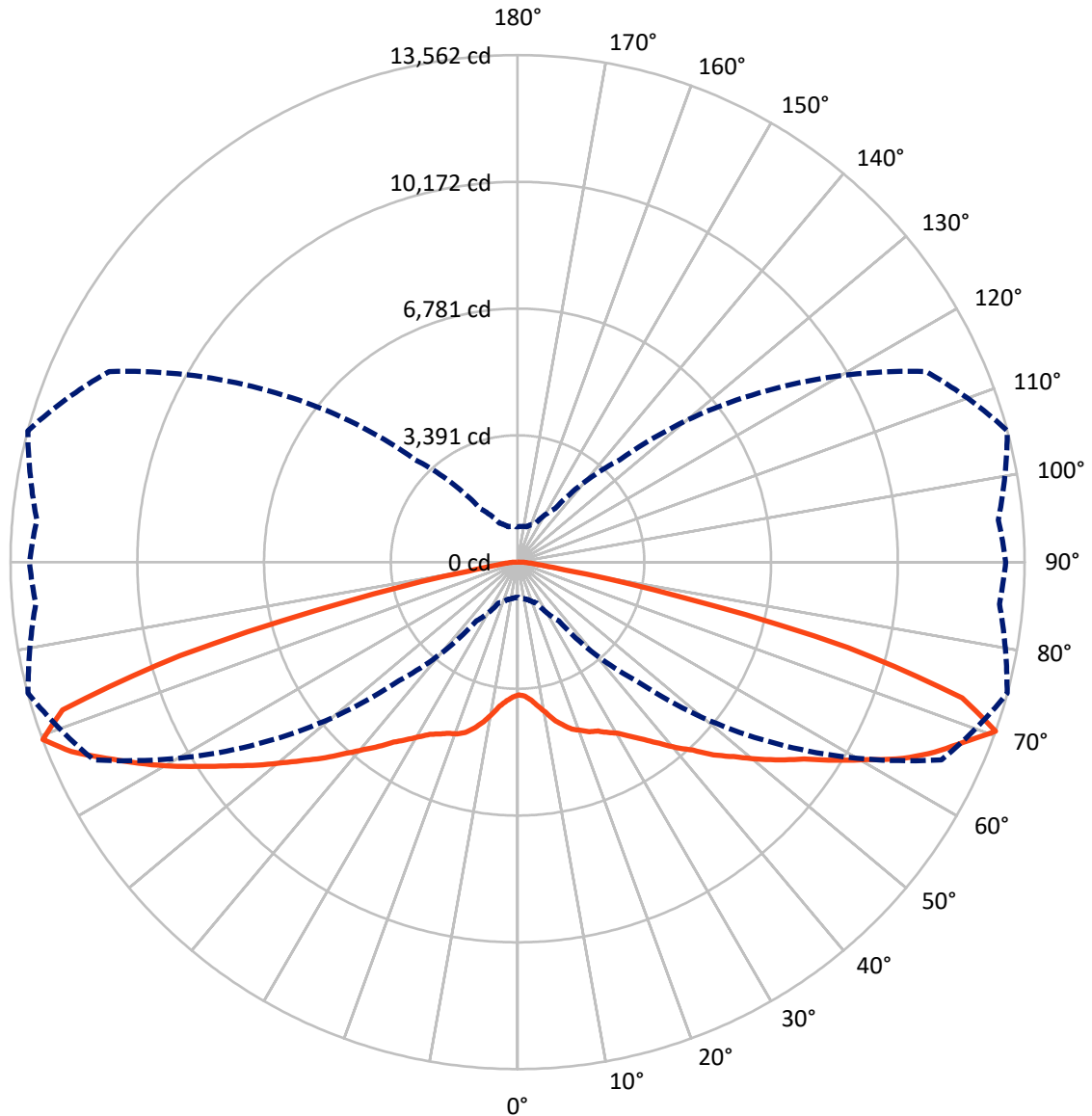
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 105-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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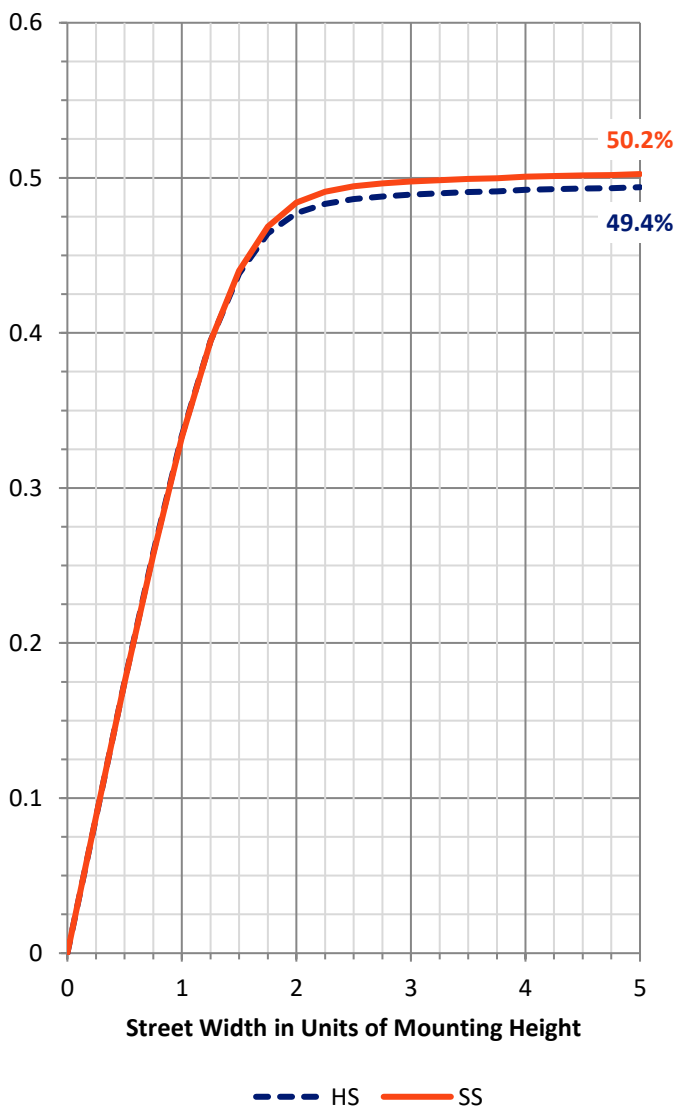
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	17221.6	0.0	17221.6
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	17468.4	0.0	17468.4
	% Fixture	50.4	0.0	50.4
Total	Lumens	34690.0	0.0	34690.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	353.6	1.0
10°-20°	1203.9	3.5
20°-30°	2331.1	6.7
30°-40°	3942.8	11.4
40°-50°	6290.0	18.1
50°-60°	8609.6	24.8
60°-70°	8115.1	23.4
70°-80°	3574.9	10.3
80°-90°	269.0	0.8
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°	34690.0	100.0
0°-180°	34690.0	100.0

Coefficient of Utilization

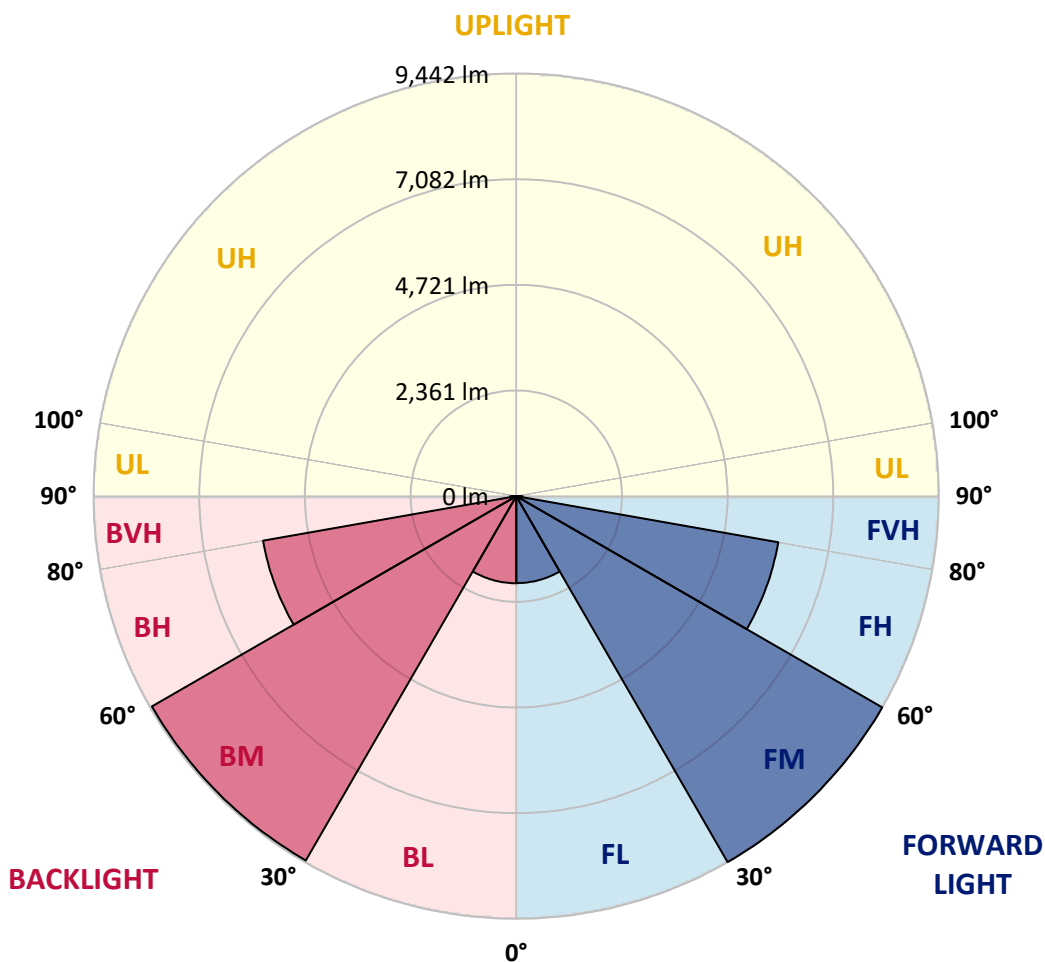


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1943.2	5.6			
FM (30°-60°)	9442.3	27.2			
FH (60°-80°)	5945.5	17.1			G3/7500
FVH (80°-90°)	137.4	0.4			G2/225
BL (0°-30°)	1945.3	5.6	B3/2500		
BM (30°-60°)	9400.1	27.1	B5		
BH (60°-80°)	5744.6	16.6	B5		G5
BVH (80°-90°)	131.6	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3552.2	3552.2	3552.2	3552.2	3552.2	3552.2	3552.2	3552.2	3552.2	3552.2	3552.2
2.5°	3529.8	3529.8	3526.0	3544.7	3563.4	3570.9	3585.9	3589.6	3612.0	3593.4	3630.7
5°	3518.6	3514.8	3544.7	3589.6	3589.6	3638.2	3668.1	3709.3	3720.5	3742.9	3750.4
7.5°	3597.1	3589.6	3574.7	3623.3	3664.4	3739.2	3780.3	3851.4	3877.5	3907.4	3941.1
10°	3645.7	3645.7	3630.7	3716.7	3754.1	3855.1	3944.8	4015.9	4116.8	4150.5	4154.2
12.5°	3653.2	3664.4	3709.3	3821.4	3926.1	4057.0	4124.3	4258.9	4359.9	4423.4	4445.9
15°	3765.4	3742.9	3791.5	3944.8	4098.1	4214.1	4333.7	4430.9	4576.8	4659.0	4711.4
17.5°	3866.3	3843.9	3933.6	4116.8	4273.9	4453.4	4558.1	4662.8	4767.5	4842.2	4846.0
20°	4027.1	4045.8	4124.3	4322.5	4528.1	4685.2	4804.8	4823.5	4875.9	4984.3	4965.6
22.5°	4225.3	4210.3	4374.8	4591.7	4816.1	4946.9	5014.2	4965.6	4939.5	5055.4	5081.5
25°	4423.4	4468.3	4617.9	4819.8	5089.0	5264.8	5283.5	5148.9	5051.6	5092.8	5081.5
27.5°	4726.3	4733.8	4890.8	5130.2	5403.1	5556.4	5545.2	5354.5	5167.5	5171.3	5178.8
30°	5115.2	5077.8	5249.8	5466.7	5735.9	5874.3	5892.9	5620.0	5369.5	5294.7	5313.4
32.5°	5489.1	5534.0	5683.6	5930.3	6128.5	6207.0	6165.9	5922.9	5597.6	5496.6	5507.8
35°	5967.7	5960.3	6165.9	6375.3	6524.9	6539.8	6506.2	6151.0	5844.3	5713.5	5661.1
37.5°	6480.0	6547.3	6681.9	6853.9	7011.0	7018.4	6835.2	6551.0	6173.4	5956.5	6020.1
40°	7052.1	7126.9	7224.1	7474.6	7590.5	7470.9	7283.9	6898.8	6506.2	6315.5	6345.4
42.5°	7556.9	7590.5	7788.7	8084.1	8140.2	8087.8	7811.1	7343.7	6887.6	6678.2	6693.1
45°	8020.5	8065.4	8323.4	8588.9	8719.8	8630.0	8308.5	7863.5	7332.5	7153.1	7082.0
47.5°	8446.8	8536.5	8787.1	9060.0	9261.9	9269.4	8873.1	8334.6	7773.8	7538.2	7534.4
50°	8734.7	8865.6	9112.4	9422.7	9718.1	9834.0	9437.7	8858.1	8256.1	8005.6	7979.4
52.5°	8891.8	9026.4	9273.2	9755.5	10084.6	10264.0	10077.1	9347.9	8820.7	8559.0	8517.9
55°	8701.1	8790.8	9194.6	9871.4	10380.0	10675.4	10552.0	10024.7	9381.6	9168.5	9205.9
57.5°	7889.7	8076.6	8573.9	9419.0	10372.5	11097.9	11086.7	10664.1	10028.5	9826.6	9834.0
60°	6495.0	6652.0	7265.2	8446.8	9953.7	11269.9	11666.2	11284.8	10753.9	10518.3	10510.8
62.5°	4584.2	4782.4	5492.9	6782.9	8719.8	11030.6	12331.8	12066.3	11464.3	11292.3	11355.9
65°	2565.1	2684.7	3342.8	4509.5	6644.5	9714.4	12451.5	12877.7	12186.0	11924.2	11935.5
67.5°	1372.3	1417.1	1723.8	2366.9	4064.5	7489.6	11243.7	13345.1	12967.5	12515.0	12444.0
70°	942.3	957.2	1035.8	1211.5	1921.9	4479.5	8480.5	12511.3	13554.5	12937.6	13057.2
72.5°	796.4	789.0	807.7	826.4	1005.8	2004.2	4976.8	9628.4	12795.5	12563.6	12518.8
75°	691.7	688.0	695.5	676.8	699.2	882.4	2202.4	6001.4	9366.6	10454.7	10623.0
77.5°	572.1	575.8	579.6	560.9	553.4	583.3	886.2	2636.1	4610.4	5089.0	5489.1
80°	433.7	441.2	471.1	452.4	422.5	426.3	523.5	882.4	1323.7	1200.3	1237.7
82.5°	295.4	299.1	362.7	340.3	317.8	287.9	336.5	456.2	516.0	392.6	344.0
85°	209.4	205.7	235.6	216.9	201.9	145.8	201.9	258.0	310.4	194.4	175.7
87.5°	48.6	48.6	97.2	78.5	74.8	59.8	78.5	101.0	134.6	86.0	78.5
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3552.2	3552.2	3552.2	3552.2	3552.2	3552.2	3552.2	3552.2	3552.2	3552.2
2.5°	3619.5	3585.9	3585.9	3578.4	3548.5	3541.0	3514.8	3522.3	3503.6	3484.9
5°	3746.7	3701.8	3701.8	3638.2	3578.4	3570.9	3541.0	3541.0	3511.1	3518.6
7.5°	3922.4	3881.3	3814.0	3757.9	3675.6	3642.0	3585.9	3578.4	3570.9	3556.0
10°	4131.8	4079.4	4012.1	3896.2	3828.9	3765.4	3709.3	3630.7	3612.0	3615.8
12.5°	4416.0	4333.7	4187.9	4086.9	4000.9	3918.7	3836.4	3720.5	3694.3	3705.5
15°	4617.9	4513.2	4367.4	4330.0	4214.1	4113.1	3978.5	3847.6	3802.7	3791.5
17.5°	4782.4	4696.4	4610.4	4554.3	4460.8	4337.4	4150.5	4000.9	3900.0	3888.7
20°	4917.0	4804.8	4786.1	4819.8	4703.9	4621.6	4393.5	4210.3	4075.7	4019.6
22.5°	4999.3	4928.2	4980.6	5010.5	5003.0	4864.7	4629.1	4416.0	4247.7	4195.4
25°	5089.0	5006.8	5193.7	5294.7	5320.9	5092.8	4909.5	4629.1	4464.6	4430.9
27.5°	5133.9	5163.8	5380.7	5593.8	5575.1	5399.4	5152.6	4902.1	4771.2	4711.4
30°	5264.8	5313.4	5642.4	5881.7	5885.5	5713.5	5526.5	5242.3	5096.5	5070.3
32.5°	5500.3	5560.2	5911.6	6165.9	6210.8	6079.9	5892.9	5717.2	5567.6	5507.8
35°	5679.8	5833.1	6229.5	6461.3	6581.0	6502.4	6397.7	6214.5	6057.5	6005.1
37.5°	5937.8	6151.0	6532.3	6846.4	6981.0	6973.6	6895.0	6696.9	6566.0	6521.1
40°	6308.0	6521.1	6868.9	7283.9	7534.4	7523.2	7478.4	7325.1	7130.6	7108.2
42.5°	6700.6	6876.4	7328.8	7803.7	8162.6	8125.2	8005.6	7826.1	7691.5	7661.6
45°	7082.0	7355.0	7773.8	8383.2	8652.5	8745.9	8603.9	8297.2	8143.9	8125.2
47.5°	7560.6	7777.5	8301.0	8846.9	9247.0	9261.9	9018.9	8734.7	8454.3	8514.1
50°	7986.9	8274.8	8805.8	9404.0	9882.7	9710.6	9400.3	9045.1	8843.2	8764.6
52.5°	8443.1	8794.6	9411.5	10021.0	10286.5	10114.5	9609.7	9213.3	8906.7	8873.1
55°	9108.6	9291.9	10099.5	10566.9	10652.9	10290.2	9546.1	8985.2	8588.9	8491.7
57.5°	9785.4	9998.6	10705.3	11109.1	11019.4	10193.0	9134.8	8267.3	7747.6	7609.2
60°	10469.7	10731.4	11326.0	11696.2	11232.5	9523.7	7971.9	6853.9	6248.2	6124.8
62.5°	11232.5	11572.8	12103.7	12234.6	10600.6	8200.0	6326.7	4946.9	4333.7	4128.1
65°	11909.3	12257.0	12911.4	12122.4	9258.2	6117.3	4090.7	2826.8	2374.4	2209.9
67.5°	12466.4	12859.0	13180.6	10727.7	6779.1	3582.1	2131.3	1488.2	1319.9	1260.1
70°	12907.6	13562.0	12058.9	7885.9	3873.8	1746.2	1151.7	979.7	957.2	942.3
72.5°	12522.5	12436.5	9003.9	4550.6	1697.6	961.0	833.8	807.7	803.9	807.7
75°	10241.6	9134.8	5384.4	1978.0	852.5	695.5	691.7	680.5	699.2	699.2
77.5°	4969.4	4344.9	2251.0	848.8	560.9	545.9	564.6	564.6	564.6	564.6
80°	1151.7	1275.1	803.9	516.0	407.6	407.6	448.7	452.4	433.7	426.3
82.5°	392.6	523.5	441.2	325.3	269.2	302.9	340.3	347.7	287.9	291.7
85°	194.4	306.6	239.3	187.0	138.3	187.0	220.6	231.8	198.2	190.7
87.5°	89.7	134.6	89.7	63.6	48.6	67.3	63.6	52.3	29.9	29.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)