

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: P478082

Luminaire Tested: **IFLD-S-SA3E-730-U-T4FT**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478082
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3E-730-U-T4FT
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens
Light Source: (48) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

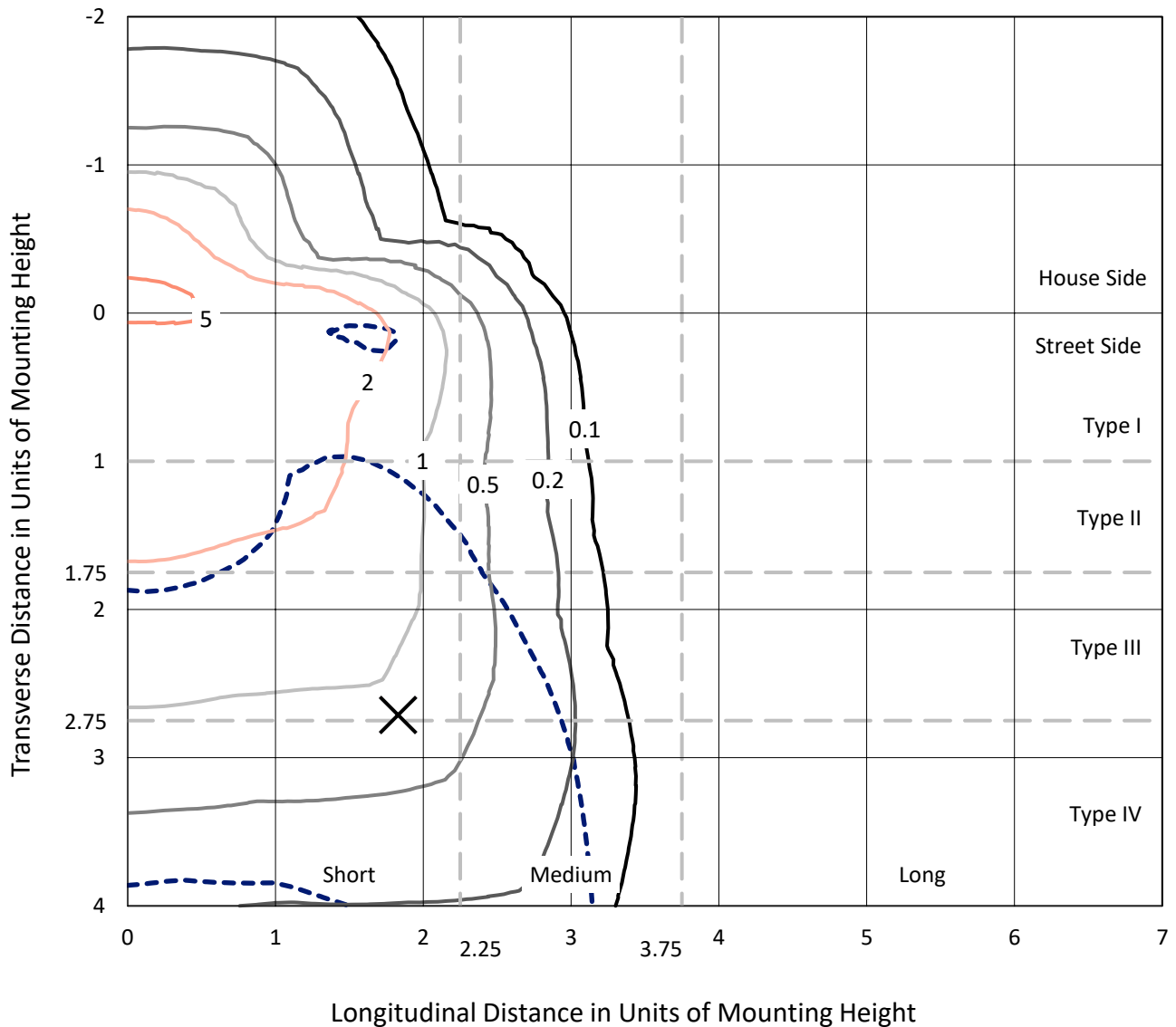
Lumens per Lamp: N/A
Luminaire Lumens: 25163.5 lumens
Efficiency: N/A
Efficacy: 108.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 232.1
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

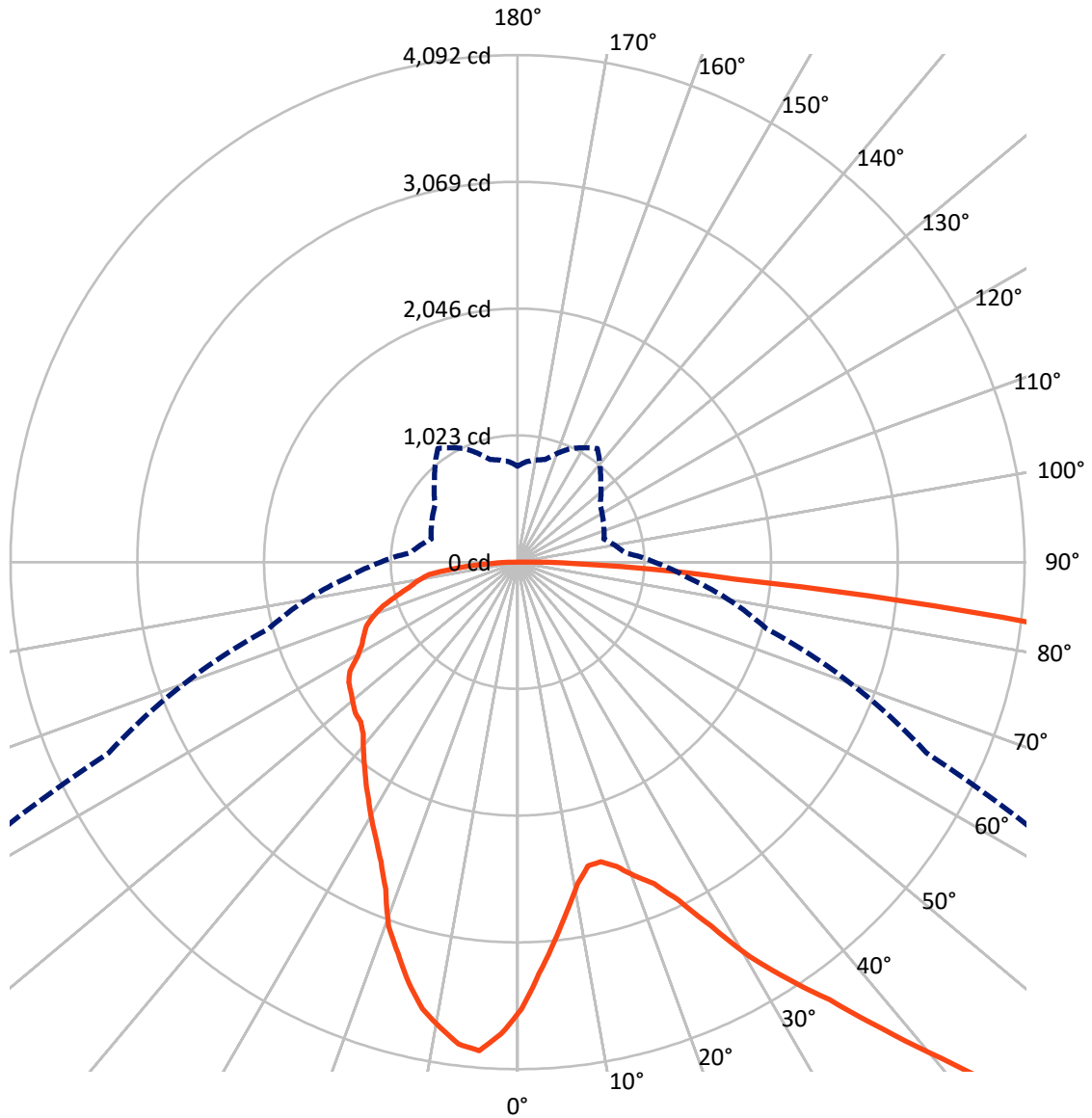
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 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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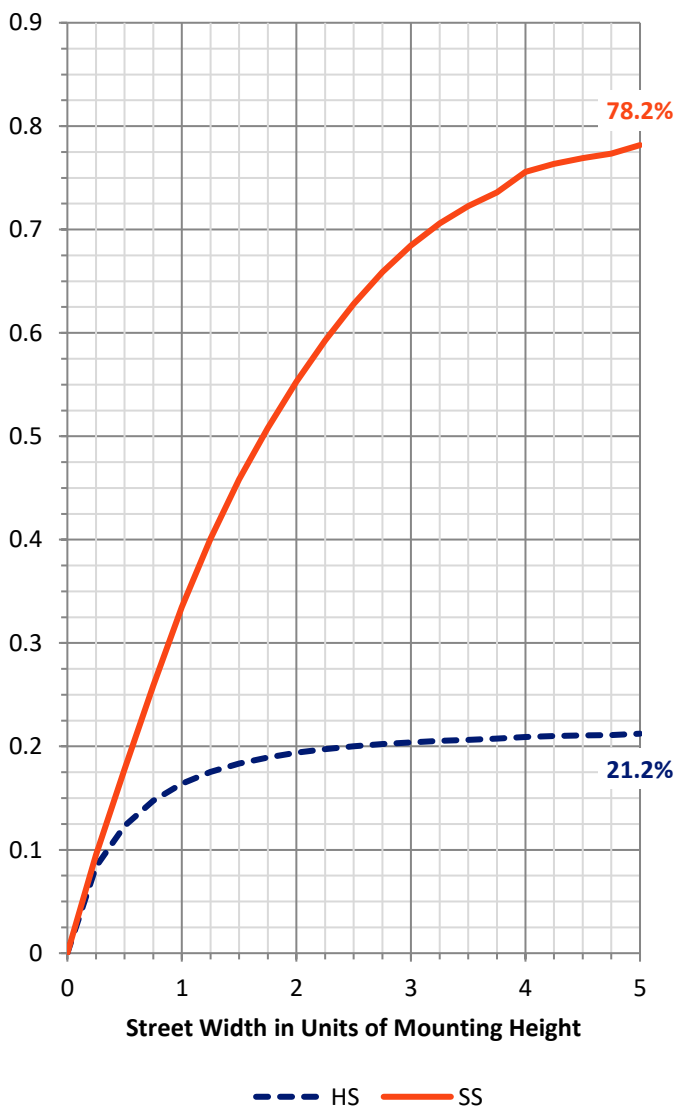
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5435.6	0.0	5435.6
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	19727.9	0.0	19727.9
	% Fixture	78.4	0.0	78.4
Total	Lumens	25163.5	0.0	25163.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	333.0	1.3
10°-20°	931.8	3.7
20°-30°	1533.6	6.1
30°-40°	2293.5	9.1
40°-50°	3400.1	13.5
50°-60°	4899.9	19.5
60°-70°	6252.9	24.8
70°-80°	4865.8	19.3
80°-90°	652.8	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°	25163.5	100.0
0°-180°	25163.5	100.0

Coefficient of Utilization



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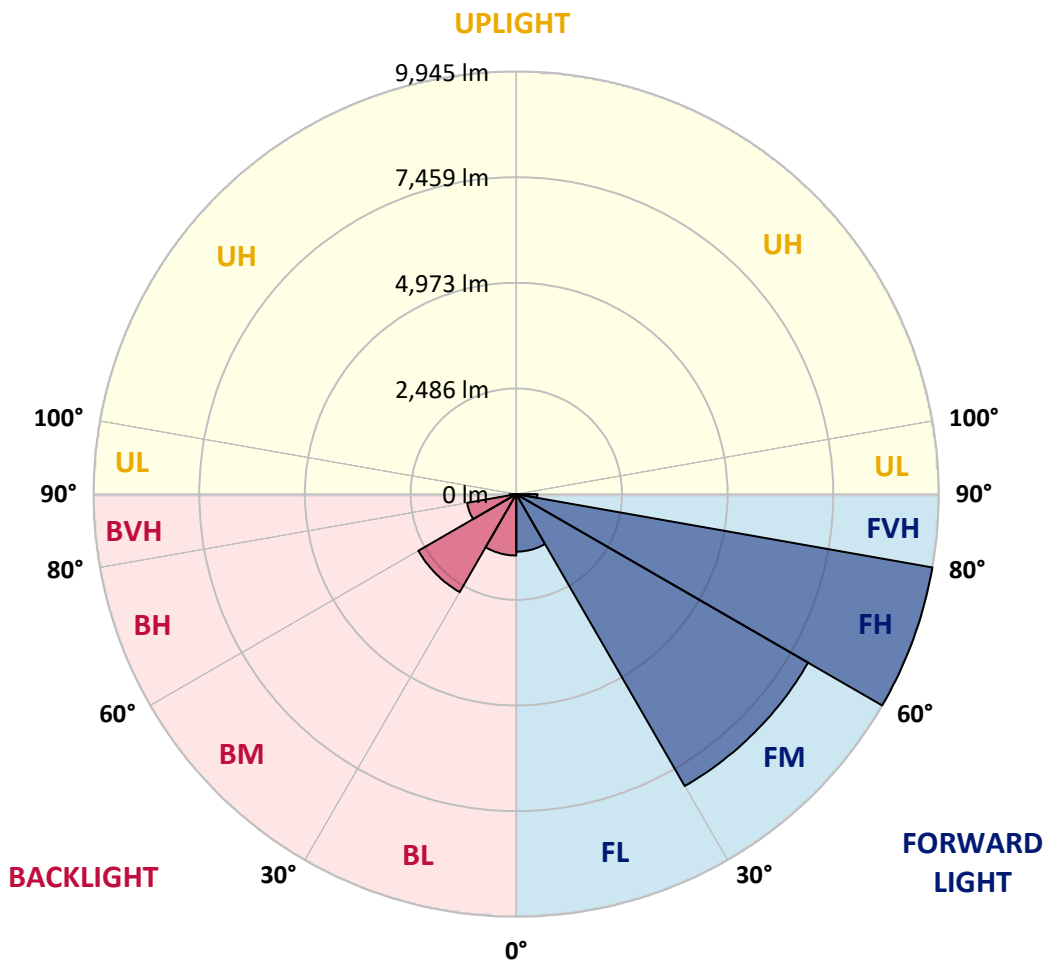
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1354.2	5.4			
FM (30°-60°)	7931.7	31.5			
FH (60°-80°)	9945.1	39.5			G4/12000
FVH (80°-90°)	496.9	2.0			G3/500
BL (0°-30°)	1444.2	5.7	B3/2500		
BM (30°-60°)	2661.8	10.6	B3/5000		
BH (60°-80°)	1173.7	4.7	B3/2500		G3/2500
BVH (80°-90°)	155.9	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	3607.6	3607.6	3607.6	3607.6	3607.6	3607.6	3607.6	3607.6	3607.6	3607.6	3607.6
2.5°	3232.5	3243.1	3277.7	3285.7	3322.9	3301.6	3346.9	3426.7	3471.9	3538.4	3618.2
5°	2977.1	2931.8	2953.1	3035.6	3078.1	3088.8	3136.7	3272.4	3357.5	3455.9	3604.9
7.5°	2676.4	2668.4	2711.0	2764.2	2849.4	2857.3	2963.7	3083.5	3259.1	3477.2	3652.8
10°	2471.6	2506.2	2530.1	2586.0	2644.5	2644.5	2780.2	2987.7	3187.2	3397.4	3663.5
12.5°	2460.9	2439.6	2445.0	2474.2	2516.8	2570.0	2697.7	2883.9	3136.7	3381.4	3708.7
15°	2495.5	2503.5	2455.6	2492.8	2508.8	2527.4	2668.4	2878.6	3104.8	3437.3	3785.8
17.5°	2679.1	2633.9	2559.4	2524.8	2580.6	2580.6	2676.4	2841.4	3110.1	3466.6	3897.6
20°	2822.7	2822.7	2700.4	2663.1	2703.0	2695.0	2761.6	2883.9	3136.7	3525.1	4022.6
22.5°	3064.8	3099.4	2897.2	2820.1	2817.4	2838.7	2897.2	3001.0	3211.2	3607.6	4142.3
25°	3413.4	3421.3	3187.2	3107.4	3022.3	3056.9	3067.5	3171.3	3277.7	3703.4	4278.0
27.5°	3801.8	3796.5	3581.0	3381.4	3325.6	3333.6	3275.0	3344.2	3376.1	3732.6	4472.2
30°	4232.8	4184.9	4022.6	3740.6	3695.4	3644.8	3517.1	3514.5	3581.0	3897.6	4740.9
32.5°	4514.8	4453.6	4341.9	4139.7	4014.6	4020.0	3817.8	3815.1	3756.6	4078.5	4975.1
35°	4791.5	4698.4	4669.1	4461.6	4336.5	4349.8	4187.6	4166.3	4059.9	4352.5	5360.8
37.5°	5124.0	5041.6	5086.8	4929.8	4775.5	4711.7	4637.2	4610.6	4472.2	4738.3	5887.6
40°	5491.2	5464.6	5435.3	5358.2	5265.0	5270.4	5190.6	5163.9	4959.1	5203.9	6393.1
42.5°	5986.0	5884.9	5733.3	5783.8	5831.7	5882.3	5855.7	5786.5	5573.7	5677.4	6957.1
45°	6446.3	6313.3	6033.9	6049.9	6246.8	6286.7	6608.6	6600.6	6172.3	6278.7	7598.3
47.5°	6757.6	6696.4	6528.8	6510.1	6792.1	6789.5	7369.5	7369.5	6802.8	6877.3	8287.3
50°	7220.5	7060.9	6989.0	7082.1	7225.8	7324.2	8146.3	8196.9	7422.7	7502.5	9189.2
52.5°	7763.2	7563.7	7382.8	7622.2	7877.6	7941.5	8915.2	8893.9	7898.9	8228.8	10245.4
55°	8212.8	8111.7	7986.7	8125.0	8542.7	8622.5	9686.7	9489.9	8375.1	8830.1	10753.6
57.5°	8736.9	8798.1	8824.7	8790.2	9287.7	9412.7	10567.3	10003.3	8784.8	9234.4	11051.5
60°	9527.1	9564.3	9598.9	9681.4	10208.2	10383.8	11264.4	10647.2	9042.9	9468.6	11075.5
62.5°	10729.6	10586.0	10663.1	10947.8	11370.8	11570.3	12291.3	11099.4	9239.8	9609.6	10293.3
65°	12105.1	11910.9	11831.1	12198.2	13294.3	13134.7	13573.7	11437.3	8955.1	9082.8	8729.0
67.5°	13499.2	13520.4	13315.6	14052.5	15396.1	15396.1	14765.5	11599.6	8183.6	7361.5	6121.7
70°	14605.9	14672.4	14784.2	16212.8	18341.2	18663.1	16242.1	10934.5	6611.2	4900.6	3346.9
72.5°	14590.0	14390.4	14962.4	17593.6	21017.6	20748.9	16550.7	8646.5	4126.4	2399.7	1535.1
73°	14262.7	14095.1	14720.3	17580.3	21126.7	20874.0	16324.6	7970.7	3639.5	2080.5	1364.8
75°	11647.5	11344.2	12408.4	15922.8	19546.4	19740.6	13869.0	5198.5	1995.3	1282.3	960.4
77.5°	5310.3	5443.3	6829.4	10681.7	15063.5	15292.3	9117.4	2248.1	1093.4	899.2	707.7
80°	1705.4	1790.5	2657.8	5310.3	9442.0	9854.3	4214.2	1021.6	779.5	689.1	529.4
82.5°	651.8	649.2	1114.7	2208.2	4474.9	4738.3	1540.4	622.5	580.0	508.1	375.1
85°	228.8	239.4	420.4	872.6	1761.2	1843.7	534.8	345.9	401.7	340.5	215.5
87.5°	79.8	82.5	149.0	316.6	606.6	641.2	149.0	138.3	199.5	196.9	109.1
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°	3607.6	3607.6	3607.6	3607.6	3607.6	3607.6	3607.6	3607.6	3607.6	3607.6	3607.6
2.5°	3644.8	3668.8	3676.8	3772.5	3772.5	3772.5	3809.8	3809.8	3799.1	3772.5	3836.4
5°	3660.8	3703.4	3785.8	3868.3	3889.6	3908.2	3958.8	3916.2	3932.2	3905.6	3929.5
7.5°	3706.0	3764.5	3918.9	3969.4	3934.8	3974.7	3921.5	3892.2	3863.0	3873.6	3836.4
10°	3783.2	3857.7	3929.5	4022.6	3956.1	3916.2	3807.1	3780.5	3687.4	3655.5	3684.7
12.5°	3878.9	3969.4	4091.8	4057.2	3929.5	3815.1	3698.0	3586.3	3530.4	3450.6	3471.9
15°	3974.7	4078.5	4097.1	4038.6	3878.9	3735.3	3522.4	3365.5	3309.6	3237.8	3275.0
17.5°	4078.5	4176.9	4145.0	3993.3	3777.9	3559.7	3317.6	3163.3	3046.2	3001.0	3001.0
20°	4232.8	4280.7	4230.1	3918.9	3655.5	3368.1	3134.0	2958.4	2841.4	2822.7	2793.5
22.5°	4352.5	4429.7	4203.5	3809.8	3477.2	3118.1	2849.4	2782.8	2748.3	2719.0	2681.7
25°	4506.8	4504.2	4155.6	3708.7	3171.3	2820.1	2657.8	2652.5	2636.5	2625.9	2676.4
27.5°	4653.1	4592.0	4099.8	3458.6	2854.7	2593.9	2506.2	2564.7	2588.6	2572.7	2593.9
30°	4884.6	4783.5	4020.0	3192.5	2575.3	2365.1	2381.1	2460.9	2500.8	2524.8	2492.8
32.5°	5129.4	4975.1	3855.0	2915.9	2327.9	2221.5	2258.7	2341.2	2389.1	2415.7	2445.0
35°	5483.2	5124.0	3687.4	2554.0	2149.6	2133.7	2155.0	2200.2	2269.4	2288.0	2296.0
37.5°	5919.5	5350.2	3461.3	2264.0	2011.3	2029.9	2051.2	2067.2	2069.8	2104.4	2091.1
40°	6355.8	5541.7	3131.4	1987.4	1867.6	1968.7	1958.1	1928.8	1904.9	1873.0	1865.0
42.5°	6738.9	5709.3	2764.2	1753.2	1739.9	1904.9	1870.3	1795.8	1739.9	1716.0	1676.1
45°	7169.9	5946.1	2394.4	1606.9	1641.5	1827.7	1817.1	1702.7	1630.9	1545.7	1535.1
47.5°	7728.6	6193.5	2040.6	1455.3	1548.4	1798.5	1803.8	1657.5	1553.7	1439.3	1423.3
50°	8444.3	6550.0	1771.9	1391.4	1492.5	1755.9	1763.9	1596.3	1460.6	1343.5	1332.9
52.5°	9130.7	6914.5	1548.4	1293.0	1455.3	1705.4	1724.0	1540.4	1383.4	1237.1	1245.1
55°	9476.6	6781.5	1356.8	1221.2	1370.1	1622.9	1692.1	1500.5	1266.4	1165.3	1162.6
57.5°	9553.7	6454.3	1205.2	1146.7	1298.3	1535.1	1638.8	1380.8	1213.2	1128.0	1117.4
60°	9301.0	5882.3	1085.5	1066.8	1207.8	1444.6	1516.5	1316.9	1160.0	1090.8	1074.8
62.5°	8678.4	5289.0	1003.0	1029.6	1130.7	1346.2	1439.3	1271.7	1109.4	1061.5	1026.9
65°	7116.7	4349.8	936.5	957.8	1050.9	1250.4	1391.4	1221.2	1064.2	1019.0	1016.3
67.5°	4929.8	2998.3	883.3	923.2	987.0	1181.2	1343.5	1165.3	1005.7	989.7	968.4
70°	2524.8	1598.9	814.1	846.0	917.9	1093.4	1258.4	1106.8	944.5	941.8	915.2
72.5°	1279.7	936.5	734.3	782.2	832.7	979.0	1152.0	1029.6	867.3	838.0	795.5
73°	1106.8	867.3	721.0	763.6	811.4	947.1	1120.1	1011.0	856.7	814.1	774.2
75°	806.1	683.7	646.5	689.1	726.3	854.0	1013.6	925.8	787.5	742.3	705.0
77.5°	603.9	526.8	537.4	585.3	617.2	736.9	901.9	838.0	713.0	651.8	635.8
80°	444.3	401.7	444.3	489.5	513.5	649.2	822.1	726.3	601.3	532.1	518.8
82.5°	316.6	292.7	343.2	372.5	383.1	537.4	739.6	580.0	454.9	364.5	335.2
85°	180.9	178.3	231.5	228.8	236.8	313.9	486.9	385.8	292.7	223.5	218.2
87.5°	79.8	87.8	117.1	93.1	98.4	149.0	207.5	143.7	119.7	66.5	50.5
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)