

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: P480108

Luminaire Tested: **IFLD-S-SA3C-740-U-SL2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480108
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3C-740-U-SL2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens
Light Source: (48) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

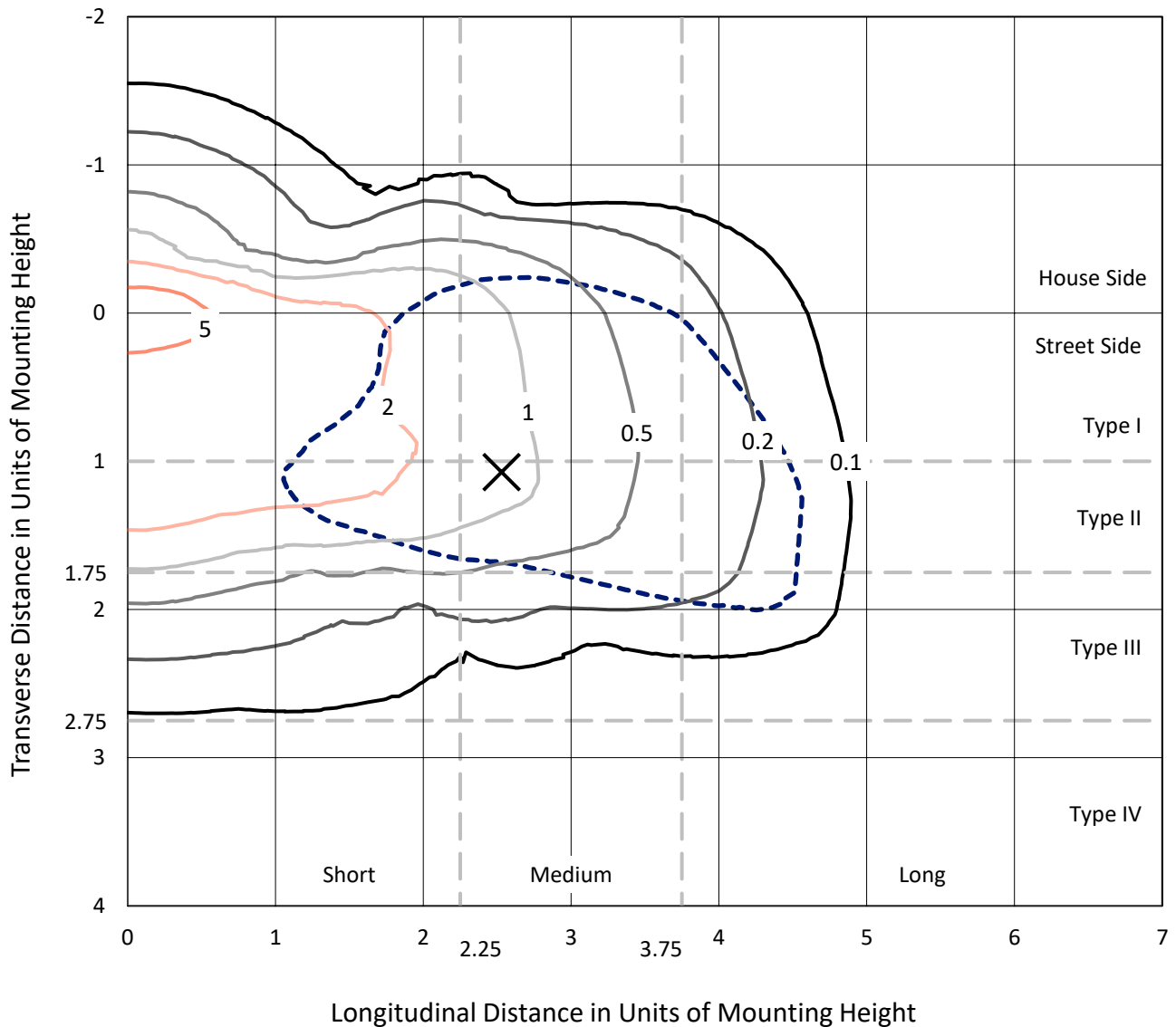
Lumens per Lamp: N/A
Luminaire Lumens: 21119.6 lumens
Efficiency: N/A
Efficacy: 131.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

Input Watts (W): 160.8
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

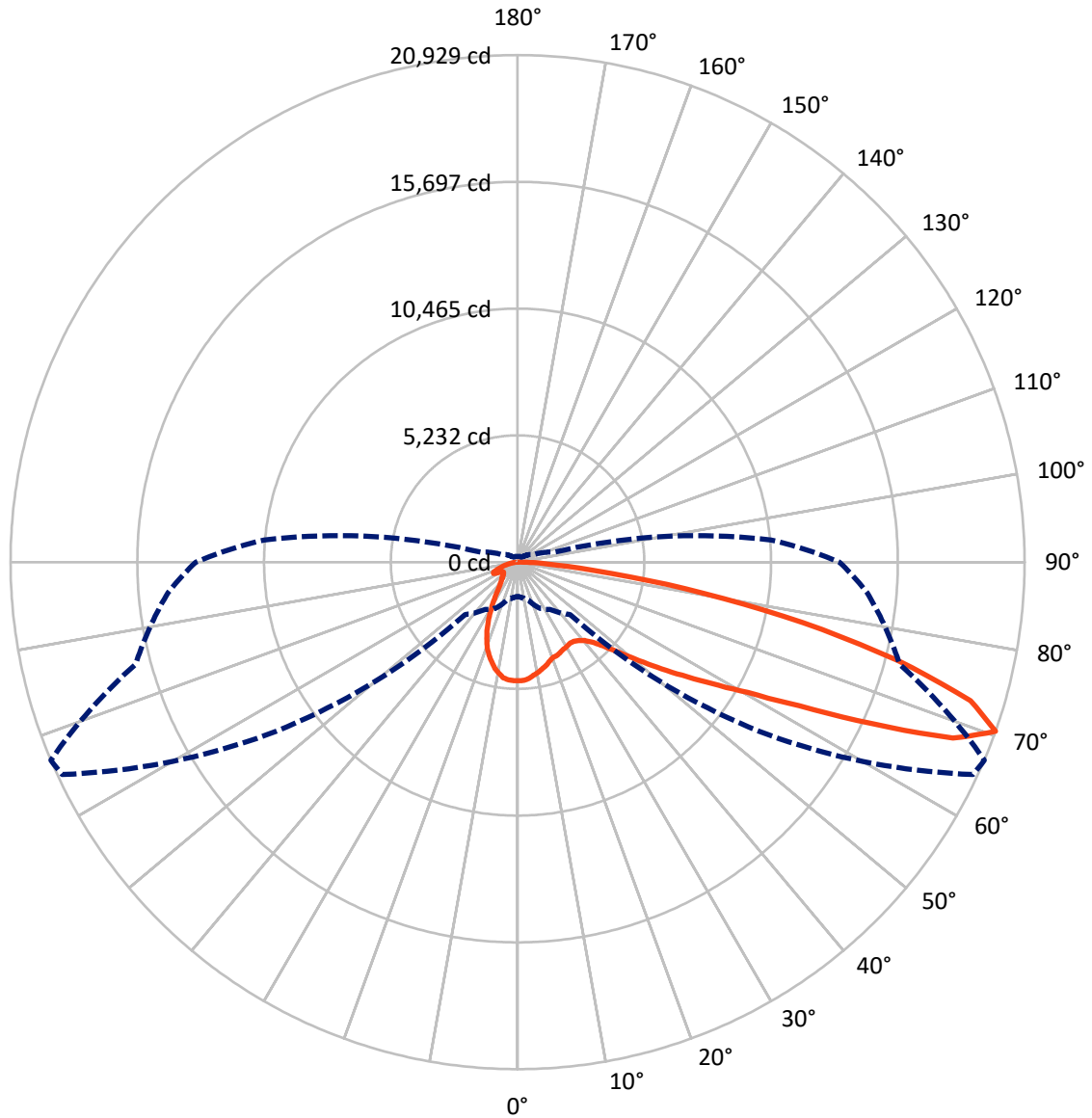
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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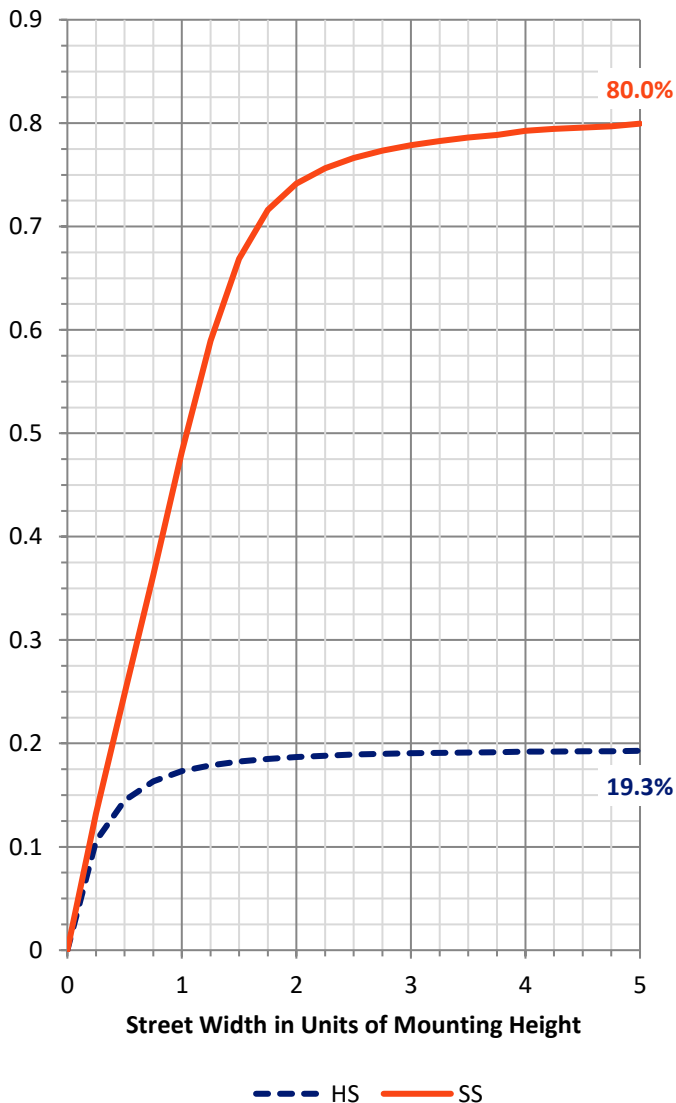
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4113.3	0.0	4113.3
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	17006.4	0.0	17006.4
	% Fixture	80.5	0.0	80.5
Total	Lumens	21119.6	0.0	21119.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	426.6	2.0
10°-20°	1021.7	4.8
20°-30°	1379.7	6.5
30°-40°	1846.1	8.7
40°-50°	2714.7	12.9
50°-60°	4231.5	20.0
60°-70°	5212.5	24.7
70°-80°	3683.1	17.4
80°-90°	603.7	2.9
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°	21119.6	100.0
0°-180°	21119.6	100.0



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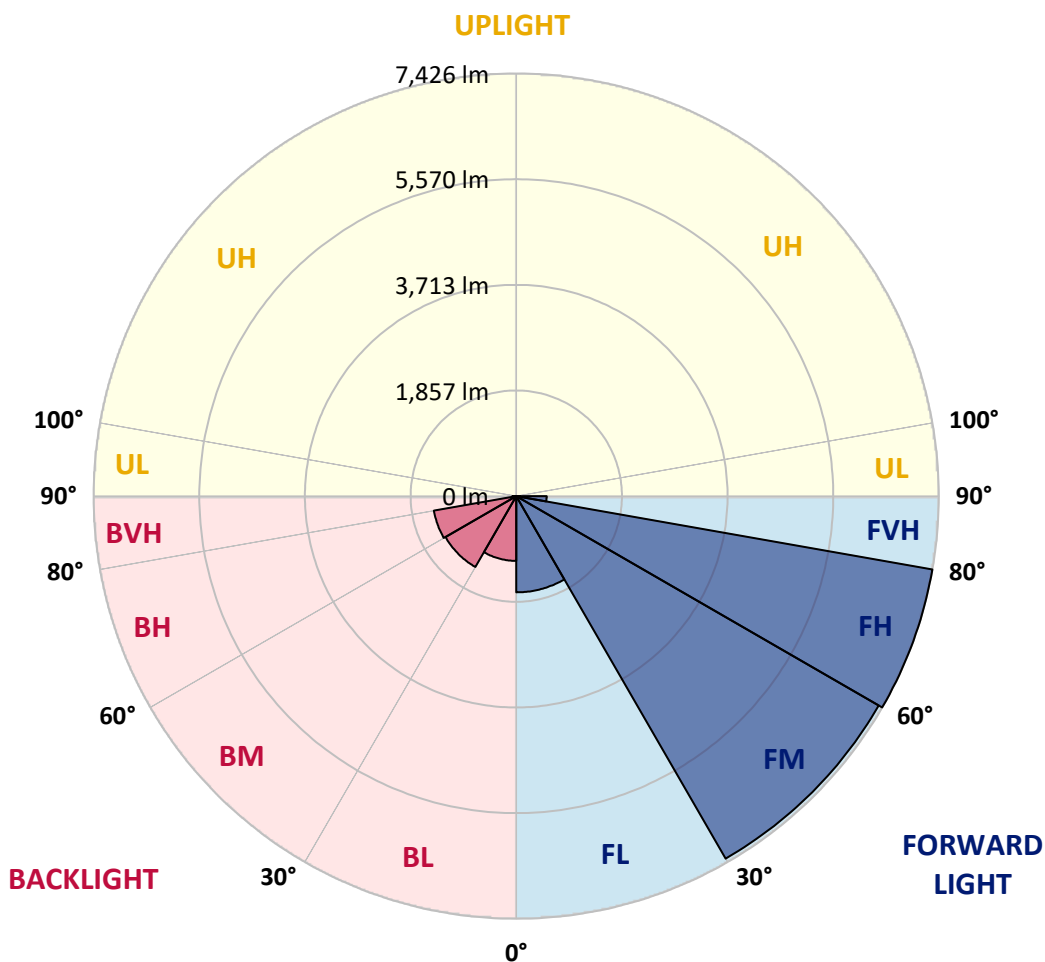
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1690.5	8.0			
FM (30°-60°)	7355.5	34.8			
FH (60°-80°)	7426.4	35.2			G3/7500
FVH (80°-90°)	534.0	2.5			G4/750
BL (0°-30°)	1137.5	5.4	B3/2500		
BM (30°-60°)	1436.8	6.8	B2/2500		
BH (60°-80°)	1469.3	7.0	B3/2500		G3/2500
BVH (80°-90°)	69.6	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	4889.1	4889.1	4889.1	4889.1	4889.1	4889.1	4889.1	4889.1	4889.1	4889.1	4889.1
2.5°	4552.4	4603.9	4622.6	4650.6	4723.1	4776.9	4809.6	4847.0	4891.5	4928.9	4952.3
5°	4234.4	4262.5	4306.9	4337.3	4428.5	4573.5	4671.7	4830.7	4826.0	4884.5	4973.3
7.5°	3925.8	3953.9	3974.9	4035.7	4166.6	4297.6	4477.6	4734.8	4716.1	4851.7	4989.7
10°	3734.1	3713.0	3720.0	3822.9	3925.8	4073.1	4299.9	4561.8	4629.6	4840.0	5036.4
12.5°	3554.0	3530.7	3586.8	3652.2	3778.5	3911.8	4183.0	4419.2	4522.0	4797.9	5057.5
15°	3441.8	3425.4	3495.6	3523.6	3673.3	3832.3	4024.0	4311.6	4423.8	4746.5	5024.7
17.5°	3378.7	3392.7	3418.4	3479.2	3575.1	3710.7	3921.1	4239.1	4288.2	4683.4	5017.7
20°	3390.4	3406.7	3409.1	3434.8	3500.3	3605.5	3820.6	4162.0	4194.7	4671.7	5036.4
22.5°	3483.9	3460.5	3469.9	3453.5	3472.2	3554.0	3743.4	4059.1	4185.3	4573.5	4996.7
25°	3624.2	3591.4	3586.8	3530.7	3495.6	3519.0	3729.4	4033.4	4115.2	4543.1	4994.4
27.5°	3872.0	3822.9	3822.9	3738.7	3596.1	3558.7	3689.6	3991.3	4063.8	4515.0	4940.6
30°	4110.5	4110.5	4112.9	3993.6	3834.6	3649.9	3706.0	3974.9	4021.7	4430.9	4868.1
32.5°	4400.5	4393.4	4381.7	4323.3	4077.8	3801.9	3785.5	3953.9	3977.2	4402.8	4847.0
35°	4683.4	4664.7	4755.9	4704.4	4454.2	4098.8	3867.3	3963.2	4014.7	4360.7	4781.6
37.5°	4896.1	4907.8	5097.2	5130.0	4914.9	4435.5	4098.8	4056.7	4105.8	4421.5	4781.6
40°	5172.1	5218.8	5396.5	5506.4	5375.5	4879.8	4465.9	4213.4	4248.5	4557.1	4884.5
42.5°	5534.5	5574.2	5801.0	5943.7	5906.2	5445.6	4828.3	4540.7	4512.7	4783.9	5038.8
45°	6013.8	6020.8	6250.0	6446.4	6523.5	6037.2	5403.5	4954.6	4931.2	5174.4	5321.7
47.5°	6584.3	6577.3	6719.9	6930.4	7138.5	6743.3	6065.2	5583.6	5499.4	5733.2	5791.7
50°	7136.1	7105.7	7138.5	7407.4	7807.2	7627.1	6869.6	6352.8	6268.7	6397.3	6497.8
52.5°	7440.1	7477.5	7388.6	7744.1	8518.0	8672.3	7935.8	7271.7	7199.3	7262.4	7437.7
55°	7227.3	7304.5	7246.0	7582.7	8829.0	9946.6	9315.3	8335.6	8242.1	8218.7	8506.3
57.5°	6322.4	6462.7	6474.4	7007.5	8721.4	10933.3	11256.0	9591.2	9450.9	9212.4	9509.4
60°	4854.1	4994.4	5101.9	5733.2	7800.2	11522.6	13505.3	11377.6	10914.6	10297.3	10475.0
62.5°	3402.1	3497.9	3605.5	3993.6	6013.8	11176.5	15450.7	13893.5	13040.0	11440.7	11662.8
65°	2478.5	2553.3	2663.2	2892.3	3694.3	9247.5	16353.2	16881.7	16072.6	12895.1	12867.0
67.5°	1865.9	1912.6	2057.6	2424.7	2560.3	5712.2	15418.0	20038.2	19383.5	14510.7	13835.0
70°	1412.3	1452.0	1587.6	2090.3	2392.0	3063.0	12163.2	20742.0	20929.0	16322.8	14485.0
72.5°	972.7	1017.1	1169.1	1741.9	2277.4	2429.4	7634.2	18843.4	19551.9	17068.7	13788.2
75°	596.2	626.6	715.5	1321.1	2261.0	2375.6	4201.7	15441.3	16191.9	15771.0	12062.7
77.5°	420.9	418.5	434.9	773.9	1959.4	2389.6	2590.7	11314.5	12044.0	11623.1	8186.0
80°	306.3	308.6	325.0	463.0	1330.4	2429.4	2041.2	7578.0	7795.5	6060.6	3229.0
82.5°	184.7	194.1	233.8	313.3	799.7	2193.2	1886.9	4211.1	3939.8	1945.4	888.5
85°	98.2	98.2	138.0	198.7	425.5	1636.7	1816.8	2003.8	1678.8	603.3	329.7
87.5°	23.4	23.4	39.7	79.5	170.7	783.3	1239.2	797.3	638.3	203.4	135.6
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°	4889.1	4889.1	4889.1	4889.1	4889.1	4889.1	4889.1	4889.1	4889.1	4889.1	4889.1
2.5°	4942.9	4914.9	4949.9	4879.8	4823.7	4826.0	4739.5	4734.8	4723.1	4662.3	4683.4
5°	4999.0	4975.6	4935.9	4858.7	4734.8	4610.9	4536.1	4440.2	4400.5	4379.4	4388.8
7.5°	5052.8	5010.7	4896.1	4788.6	4596.9	4363.0	4227.4	4098.8	3935.2	3916.5	3883.7
10°	5066.8	4978.0	4830.7	4601.5	4346.7	4087.1	3778.5	3540.0	3413.7	3315.5	3278.1
12.5°	5045.8	5008.4	4725.5	4430.9	4045.1	3638.2	3278.1	2941.4	2707.6	2586.0	2553.3
15°	5043.5	4978.0	4608.6	4171.3	3678.0	3147.2	2635.1	2230.6	1985.1	1884.6	1884.6
17.5°	5045.8	4889.1	4470.6	3909.4	3245.4	2527.6	1964.1	1632.0	1496.4	1482.4	1494.1
20°	4999.0	4823.7	4325.6	3600.8	2702.9	1898.6	1426.3	1290.7	1290.7	1309.4	1316.4
22.5°	4956.9	4725.5	4096.5	3219.7	2151.1	1374.8	1159.7	1120.0	1164.4	1197.1	1211.2
25°	4898.5	4643.6	3862.7	2824.5	1636.7	1108.3	1007.8	1017.1	1059.2	1117.6	1113.0
27.5°	4814.3	4501.0	3584.4	2366.2	1218.2	956.3	930.6	935.3	979.7	1005.4	1000.7
30°	4718.4	4356.0	3327.2	1910.3	965.7	876.8	874.5	886.2	893.2	907.2	904.9
32.5°	4596.9	4164.3	3053.7	1484.7	869.8	832.4	823.0	816.0	823.0	820.7	813.7
35°	4510.3	4061.4	2775.4	1131.7	816.0	792.6	785.6	773.9	764.6	750.6	748.2
37.5°	4487.0	3958.5	2483.1	923.6	773.9	762.2	738.9	717.8	706.1	699.1	694.4
40°	4472.9	3890.7	2197.9	811.3	738.9	727.2	699.1	671.1	659.4	652.4	654.7
42.5°	4522.0	3853.3	1908.0	755.2	708.5	687.4	657.0	624.3	622.0	617.3	624.3
45°	4695.1	3900.1	1639.1	715.5	678.1	643.0	603.3	586.9	584.5	579.9	584.5
47.5°	5087.9	4017.0	1409.9	689.8	645.3	614.9	572.9	549.5	547.1	544.8	544.8
50°	5630.3	4377.1	1218.2	659.4	624.3	582.2	542.5	516.7	512.1	502.7	502.7
52.5°	6481.4	4982.7	1103.6	643.0	586.9	551.8	509.7	481.7	470.0	460.6	460.6
55°	7440.1	5733.2	1082.6	614.9	547.1	514.4	477.0	448.9	437.2	425.5	420.9
57.5°	8532.0	6726.9	1232.2	596.2	519.1	477.0	434.9	409.2	399.8	388.1	383.5
60°	9549.1	7718.3	1697.5	568.2	493.4	441.9	399.8	374.1	362.4	350.7	350.7
62.5°	10725.2	8945.9	2485.5	568.2	470.0	404.5	362.4	343.7	336.7	325.0	322.7
65°	12116.4	10215.5	3060.7	603.3	463.0	371.8	327.3	308.6	301.6	294.6	292.3
67.5°	13175.6	10945.0	2632.8	696.8	493.4	343.7	292.3	280.6	275.9	268.9	264.2
70°	13287.9	10500.8	1587.6	752.9	523.8	315.7	261.9	250.2	250.2	243.2	238.5
72.5°	12280.1	9317.6	1068.5	671.1	474.7	282.9	231.5	222.1	217.5	212.8	210.4
75°	10276.3	7903.0	844.1	535.4	364.8	233.8	201.1	191.7	184.7	182.4	177.7
77.5°	6902.3	5137.0	624.3	418.5	268.9	189.4	168.3	159.0	152.0	149.6	142.6
80°	2651.5	1957.1	402.2	304.0	189.4	149.6	133.3	123.9	119.2	112.2	107.6
82.5°	781.0	633.6	224.5	187.1	121.6	102.9	95.9	88.9	81.8	74.8	72.5
85°	322.7	289.9	138.0	98.2	74.8	60.8	56.1	49.1	42.1	37.4	32.7
87.5°	149.6	123.9	63.1	37.4	25.7	14.0	7.0	2.3	0.0	0.0	0.0
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)