

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: P480577

Luminaire Tested: **IFLD-S-SA3D-760-U-SL3**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480577
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3D-760-U-SL3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens
Light Source: (48) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

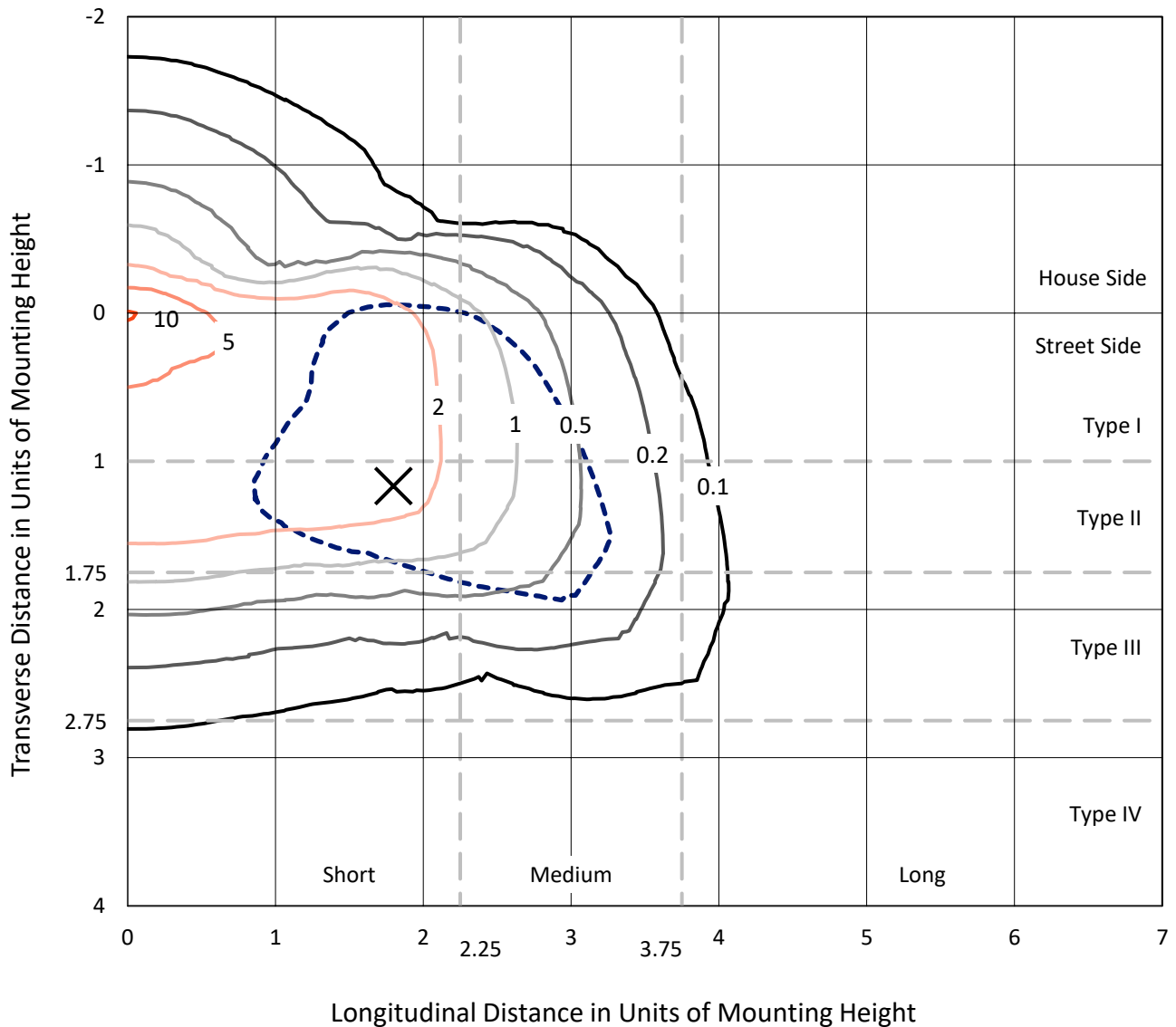
Lumens per Lamp: N/A
Luminaire Lumens: 23524.3 lumens
Efficiency: N/A
Efficacy: 127.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 184.1
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

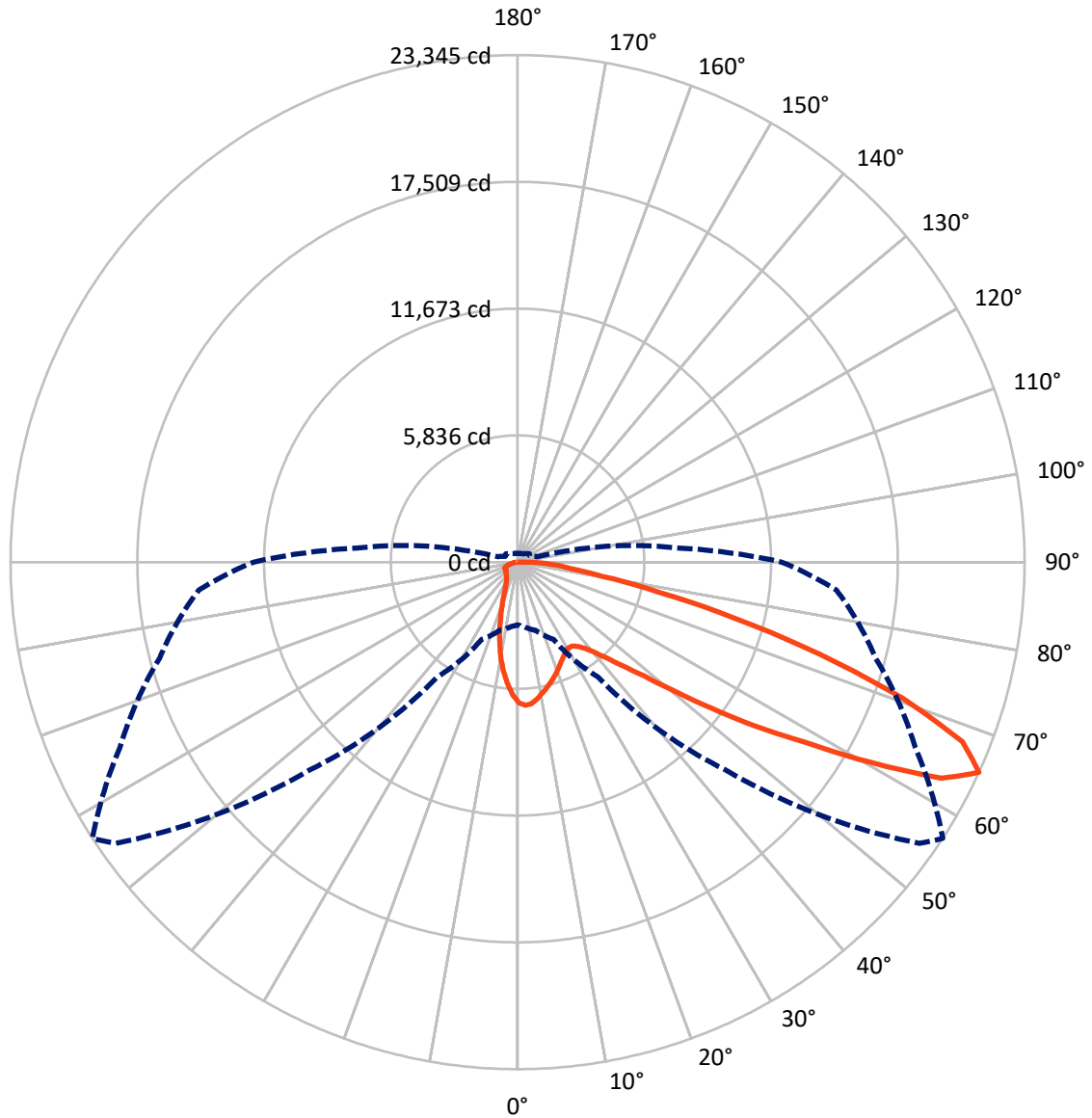
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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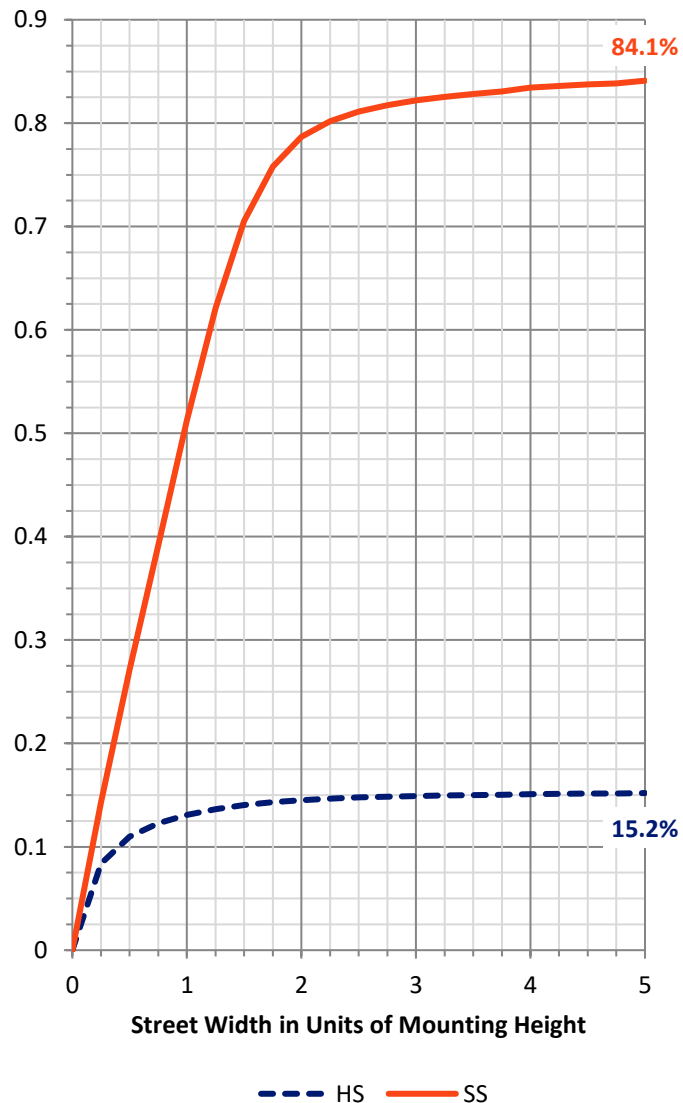
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3607.7	0.0	3607.7
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	19916.6	0.0	19916.6
	% Fixture	84.7	0.0	84.7
Total	Lumens	23524.3	0.0	23524.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	541.7	2.3
10°-20°	1165.9	5.0
20°-30°	1507.3	6.4
30°-40°	2028.4	8.6
40°-50°	3234.4	13.7
50°-60°	5712.7	24.3
60°-70°	6284.7	26.7
70°-80°	2629.0	11.2
80°-90°	420.2	1.8
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°	23524.3	100.0
0°-180°	23524.3	100.0

Coefficient of Utilization



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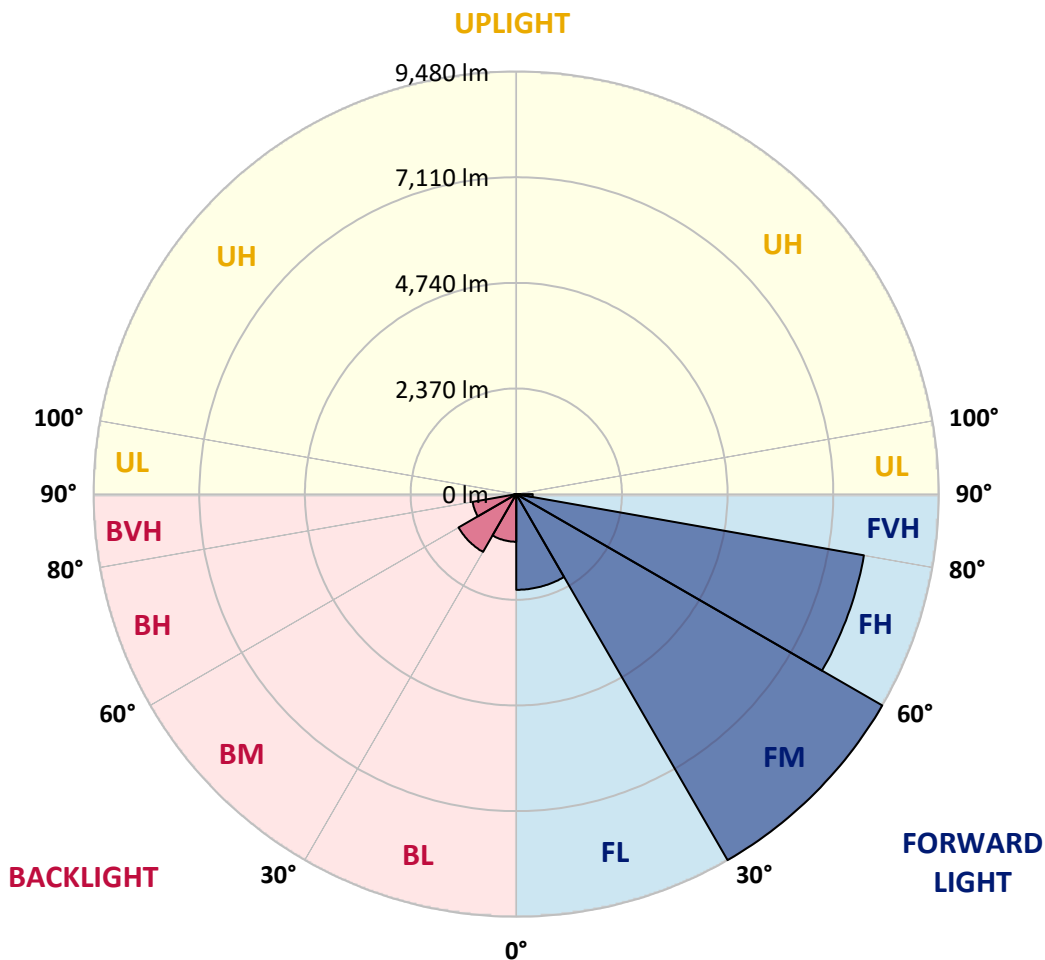
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2146.5	9.1			
FM (30°-60°)	9480.2	40.3			
FH (60°-80°)	7919.0	33.7			G4/12000
FVH (80°-90°)	370.9	1.6			G3/500
BL (0°-30°)	1068.4	4.5	B3/2500		
BM (30°-60°)	1495.2	6.4	B2/2500		
BH (60°-80°)	994.7	4.2	B2/1000		G2/1000
BVH (80°-90°)	49.3	0.2			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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	6468.8	6468.8	6468.8	6468.8	6468.8	6468.8	6468.8	6468.8	6468.8	6468.8	6468.8
2.5°	6643.5	6654.1	6654.1	6675.3	6603.8	6638.2	6632.9	6601.2	6611.8	6556.2	6500.6
5°	6455.6	6447.7	6490.0	6495.3	6550.9	6566.8	6580.0	6558.8	6564.1	6442.4	6389.4
7.5°	5973.9	5971.2	6042.7	6103.6	6220.0	6328.6	6400.0	6378.9	6408.0	6331.2	6206.8
10°	5402.2	5463.0	5537.2	5598.0	5812.4	5950.1	6135.3	6153.9	6265.0	6246.5	6021.5
12.5°	4973.4	4999.9	5055.4	5230.1	5426.0	5653.6	5918.3	5942.1	6050.6	6103.6	5907.7
15°	4621.4	4645.2	4716.6	4846.3	5066.0	5336.0	5672.1	5733.0	5950.1	5968.6	5759.5
17.5°	4364.6	4383.1	4430.8	4560.5	4740.5	5087.2	5404.8	5513.3	5799.2	5889.2	5606.0
20°	4264.0	4224.3	4250.8	4332.9	4512.8	4780.2	5190.4	5285.7	5651.0	5828.3	5460.4
22.5°	4219.0	4184.6	4200.5	4195.2	4338.1	4528.7	4960.2	5060.7	5510.7	5756.8	5330.7
25°	4253.4	4253.4	4237.6	4224.3	4240.2	4364.6	4711.3	4867.5	5322.8	5696.0	5198.4
27.5°	4438.7	4367.3	4375.2	4319.6	4303.7	4303.7	4600.2	4692.8	5261.9	5661.6	5089.8
30°	4557.8	4592.2	4594.9	4512.8	4430.8	4282.6	4497.0	4586.9	5211.6	5703.9	5026.3
32.5°	4862.2	4846.3	4801.3	4785.5	4663.7	4497.0	4547.2	4608.1	5182.5	5799.2	5044.9
35°	5166.6	5158.7	5161.3	5153.4	5026.3	4780.2	4682.2	4764.3	5235.4	5965.9	5108.4
37.5°	5481.6	5502.8	5592.7	5592.7	5457.8	5190.4	5060.7	5036.9	5428.6	6238.6	5259.2
40°	5796.5	5849.5	5963.3	6143.3	5952.7	5703.9	5494.8	5457.8	5661.6	6603.8	5621.9
42.5°	6098.3	6185.6	6410.6	6677.9	6614.4	6365.6	6087.7	6045.4	6140.6	7146.4	6127.4
45°	6484.7	6558.8	6913.5	7323.8	7411.1	7191.4	6865.9	6831.5	6826.2	7940.5	6823.5
47.5°	7072.3	7151.7	7506.4	7919.3	8189.3	8223.7	7858.4	7821.4	7694.3	9012.4	7842.5
50°	7808.1	7937.8	8236.9	8718.6	9110.4	9478.3	9375.1	9266.5	9017.7	10259.1	9134.2
52.5°	8345.4	8504.3	8909.2	9525.9	10216.7	10801.7	11172.3	11172.3	10600.5	11627.5	10687.9
55°	8488.4	8583.7	9094.5	9986.5	11169.6	12649.2	13424.7	13366.5	12485.1	13067.4	12495.7
57.5°	7919.3	8043.7	8663.1	9597.4	11669.9	14377.6	15661.3	15674.5	14544.3	14740.2	14279.6
60°	6352.4	6392.1	7122.6	8371.9	11188.1	15769.8	18715.7	18766.0	16886.7	16230.3	15187.5
62.5°	4391.1	4518.1	5068.7	6164.5	9269.2	15613.6	21661.6	21910.4	18763.3	17016.4	15330.4
65°	2890.3	2967.1	3260.9	3927.9	6453.0	13533.2	22577.4	23345.0	20197.9	17061.4	14732.2
67.5°	2096.3	2109.5	2196.9	2541.0	3877.6	9732.4	21013.2	22095.7	20735.2	16685.6	13329.4
70°	1694.0	1704.6	1736.3	1956.0	2503.9	6090.3	17138.2	18834.8	19123.3	14904.3	10735.5
72.5°	1376.3	1389.6	1429.3	1635.7	2064.5	3387.9	12532.7	14599.9	15555.4	11026.7	7135.8
75°	1082.6	1093.1	1188.4	1392.2	1940.1	2326.6	8313.7	10338.5	10468.2	6445.0	3340.3
77.5°	741.1	759.6	876.1	1180.5	1826.3	2035.4	5182.5	6622.4	5942.1	2522.4	1148.7
80°	471.1	497.6	566.4	894.6	1614.6	1942.8	3223.8	3954.4	2601.8	862.9	553.2
82.5°	277.9	304.4	373.2	579.7	1267.8	1802.5	2271.0	2474.8	1220.2	442.0	333.5
85°	153.5	172.0	225.0	349.4	743.8	1601.3	1818.4	1776.0	698.8	235.6	209.1
87.5°	50.3	58.2	82.1	140.3	307.0	754.3	1090.5	1024.3	362.6	108.5	82.1
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°	6468.8	6468.8	6468.8	6468.8	6468.8	6468.8	6468.8	6468.8	6468.8	6468.8	6468.8
2.5°	6463.5	6455.6	6336.5	6246.5	6093.0	5965.9	5915.7	5846.8	5844.2	5793.9	5780.7
5°	6307.4	6225.3	6042.7	5868.0	5595.4	5412.8	5246.0	5129.5	5081.9	4978.7	4954.9
7.5°	6106.2	5997.7	5717.1	5388.9	5068.7	4782.8	4523.4	4264.0	4118.5	4068.2	4012.6
10°	5897.1	5706.6	5291.0	4923.1	4475.8	4036.4	3628.8	3263.5	3065.0	2924.7	2863.9
12.5°	5730.4	5476.3	4946.9	4396.4	3806.1	3218.5	2744.8	2361.0	2136.0	2030.1	1982.5
15°	5542.5	5206.3	4571.1	3875.0	3139.1	2472.1	2008.9	1707.2	1617.2	1566.9	1559.0
17.5°	5343.9	4954.9	4163.5	3361.5	2488.0	1860.7	1561.6	1439.9	1400.2	1379.0	1368.4
20°	5158.7	4729.9	3745.3	2789.8	1948.1	1492.8	1352.5	1289.0	1286.4	1296.9	1294.3
22.5°	4896.6	4436.1	3332.4	2260.4	1556.3	1299.6	1209.6	1193.7	1209.6	1222.8	1228.1
25°	4748.4	4195.2	2871.8	1794.5	1286.4	1154.0	1124.9	1119.6	1143.4	1159.3	1156.7
27.5°	4594.9	3946.4	2443.0	1437.2	1127.5	1050.8	1045.5	1050.8	1074.6	1098.4	1095.8
30°	4475.8	3747.9	2040.7	1201.7	1005.8	976.7	971.4	976.7	989.9	992.6	992.6
32.5°	4377.8	3512.3	1699.3	1042.8	931.7	907.9	913.2	910.5	913.2	915.8	918.4
35°	4319.6	3372.1	1418.7	944.9	870.8	852.3	849.6	841.7	844.3	847.0	844.3
37.5°	4444.0	3303.2	1196.4	876.1	828.5	812.6	807.3	802.0	794.0	794.0	794.0
40°	4631.9	3266.2	1061.4	831.1	796.7	778.2	762.3	757.0	757.0	759.6	762.3
42.5°	5005.1	3327.1	968.7	796.7	757.0	735.8	719.9	722.6	730.5	738.5	733.2
45°	5545.1	3512.3	926.4	770.2	733.2	704.1	693.5	690.8	698.8	712.0	722.6
47.5°	6251.8	3800.8	910.5	746.4	717.3	677.6	664.4	672.3	682.9	701.4	693.5
50°	7408.5	4449.3	923.7	725.2	693.5	664.4	648.5	640.5	648.5	661.7	667.0
52.5°	8919.8	5627.2	974.0	714.6	677.6	653.8	627.3	614.1	622.0	632.6	632.6
55°	10727.6	7236.4	1114.3	701.4	651.1	637.9	608.8	582.3	587.6	587.6	584.9
57.5°	12321.0	8451.3	1281.1	682.9	635.2	616.7	579.7	547.9	542.6	545.2	547.9
60°	13035.6	8774.2	1360.5	677.6	635.2	590.2	540.0	508.2	500.3	495.0	495.0
62.5°	12911.2	8215.7	1199.0	653.8	651.1	569.1	502.9	468.5	457.9	447.3	450.0
65°	12159.5	7419.1	944.9	622.0	653.8	555.8	465.8	431.4	412.9	399.7	397.0
67.5°	10785.8	6333.9	749.1	598.2	627.3	532.0	434.1	394.4	378.5	365.3	360.0
70°	8438.1	4965.4	651.1	566.4	563.8	473.8	397.0	362.6	338.8	322.9	322.9
72.5°	5471.0	3139.1	558.5	502.9	487.0	397.0	344.1	322.9	304.4	291.2	291.2
75°	2477.4	1458.4	450.0	420.8	397.0	317.6	291.2	280.6	264.7	251.4	251.4
77.5°	889.3	622.0	336.1	330.9	296.4	246.2	235.6	227.6	217.0	203.8	203.8
80°	497.6	394.4	251.4	240.9	206.5	182.6	169.4	169.4	164.1	156.2	153.5
82.5°	315.0	256.7	185.3	161.5	135.0	121.8	116.5	113.8	111.2	100.6	97.9
85°	198.5	174.7	121.8	95.3	79.4	60.9	58.2	55.6	50.3	45.0	45.0
87.5°	90.0	100.6	47.6	29.1	21.2	13.2	7.9	2.6	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)