

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: P480401

Luminaire Tested: **IFLD-M-SA4C-727-U-SL3**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480401
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4C-727-U-SL3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens
Light Source: (64) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

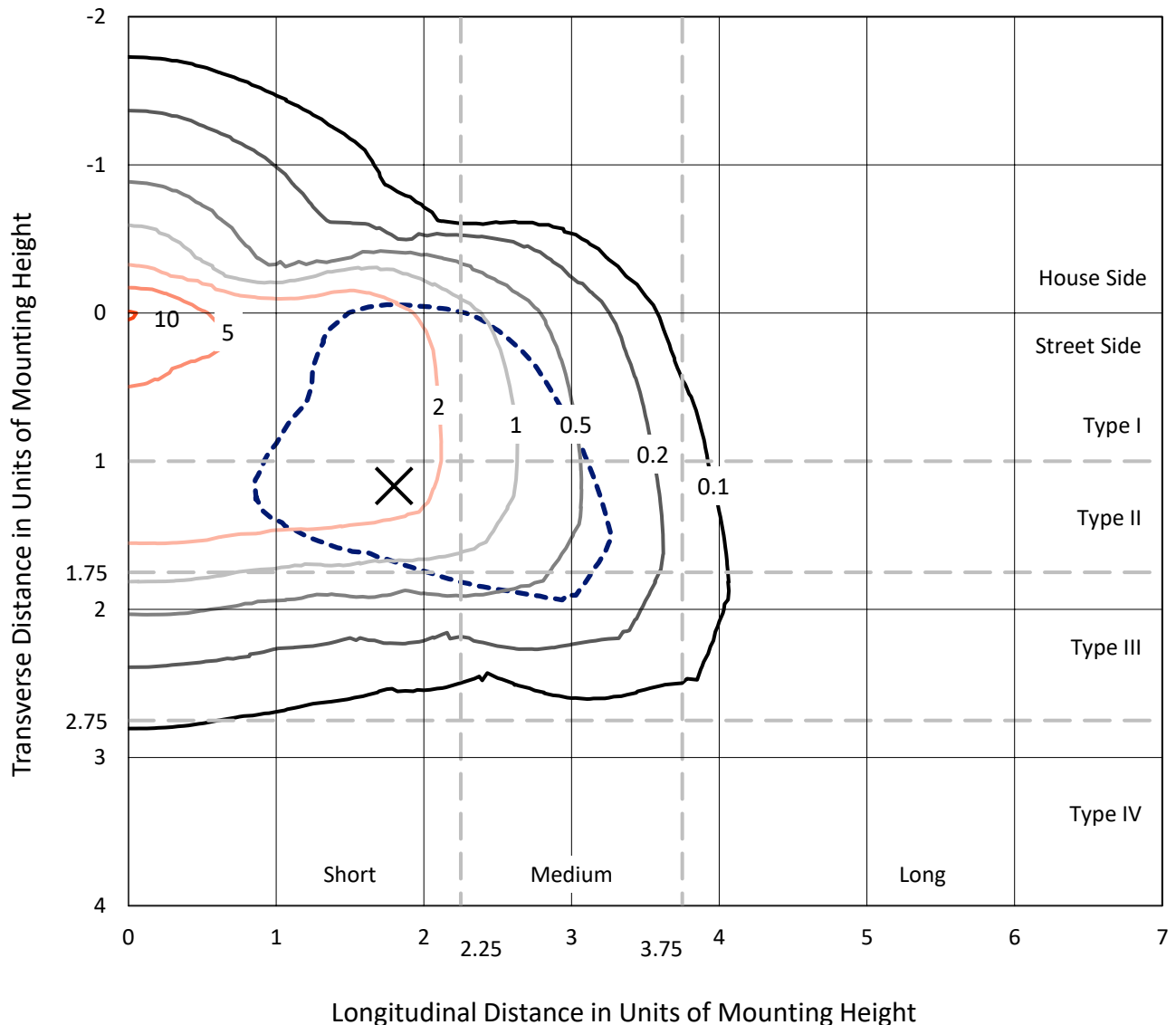
Lumens per Lamp: N/A
Luminaire Lumens: 23461.8 lumens
Efficiency: N/A
Efficacy: 107.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 218.1
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

REPORT NUMBER: P480401
 CATALOG NUMBER: IFLD-M-SA4C-727-U-SL3

Iso-Footcandle Lines of Horizontal Illumination

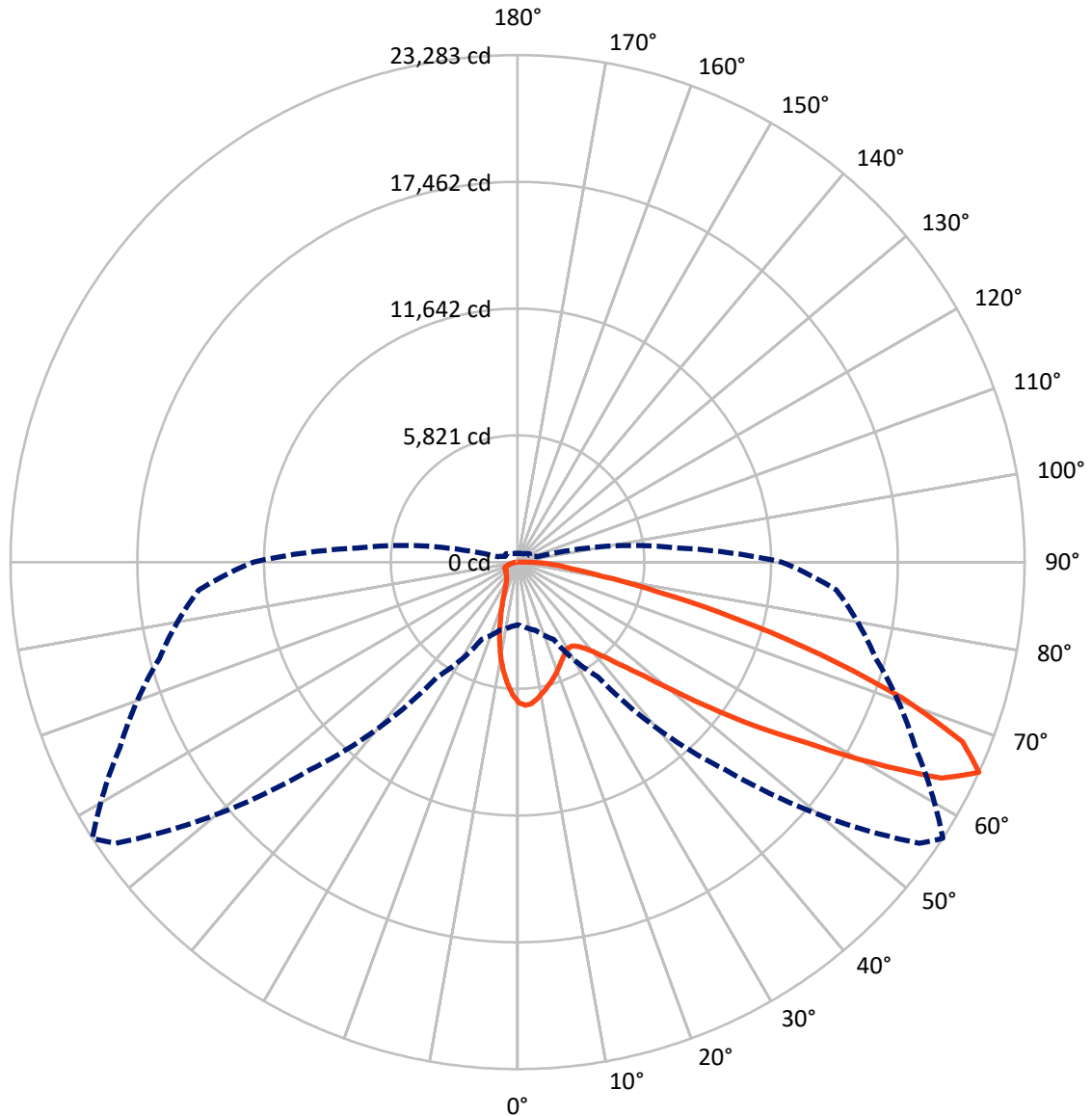
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.3 fc
 Type III - Short - N/A

REPORT NUMBER: P480401
CATALOG NUMBER: IFLD-M-SA4C-727-U-SL3

Luminous Intensity Polar Plot



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

REPORT NUMBER: P480401

CATALOG NUMBER: IFLD-M-SA4C-727-U-SL3

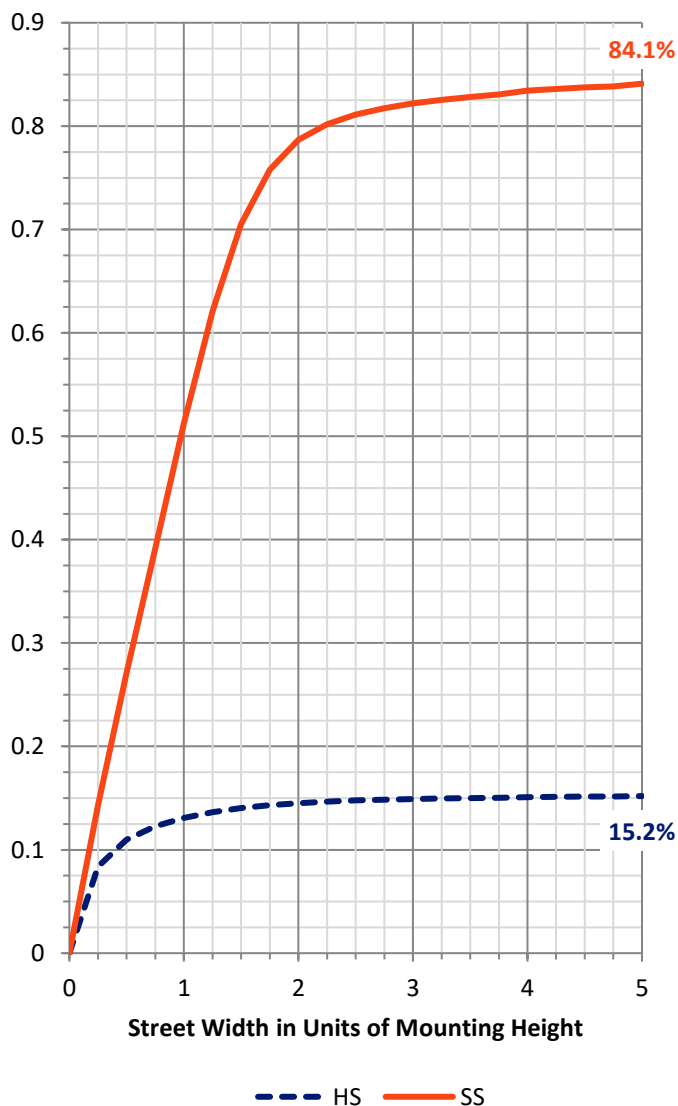
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3598.1	0.0	3598.1
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	19863.7	0.0	19863.7
	% Fixture	84.7	0.0	84.7
Total	Lumens	23461.8	0.0	23461.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	540.3	2.3
10°-20°	1162.8	5.0
20°-30°	1503.3	6.4
30°-40°	2023.0	8.6
40°-50°	3225.8	13.7
50°-60°	5697.5	24.3
60°-70°	6268.0	26.7
70°-80°	2622.0	11.2
80°-90°	419.0	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°	23461.8	100.0
0°-180°	23461.8	100.0

Coefficient of Utilization



REPORT NUMBER: P480401

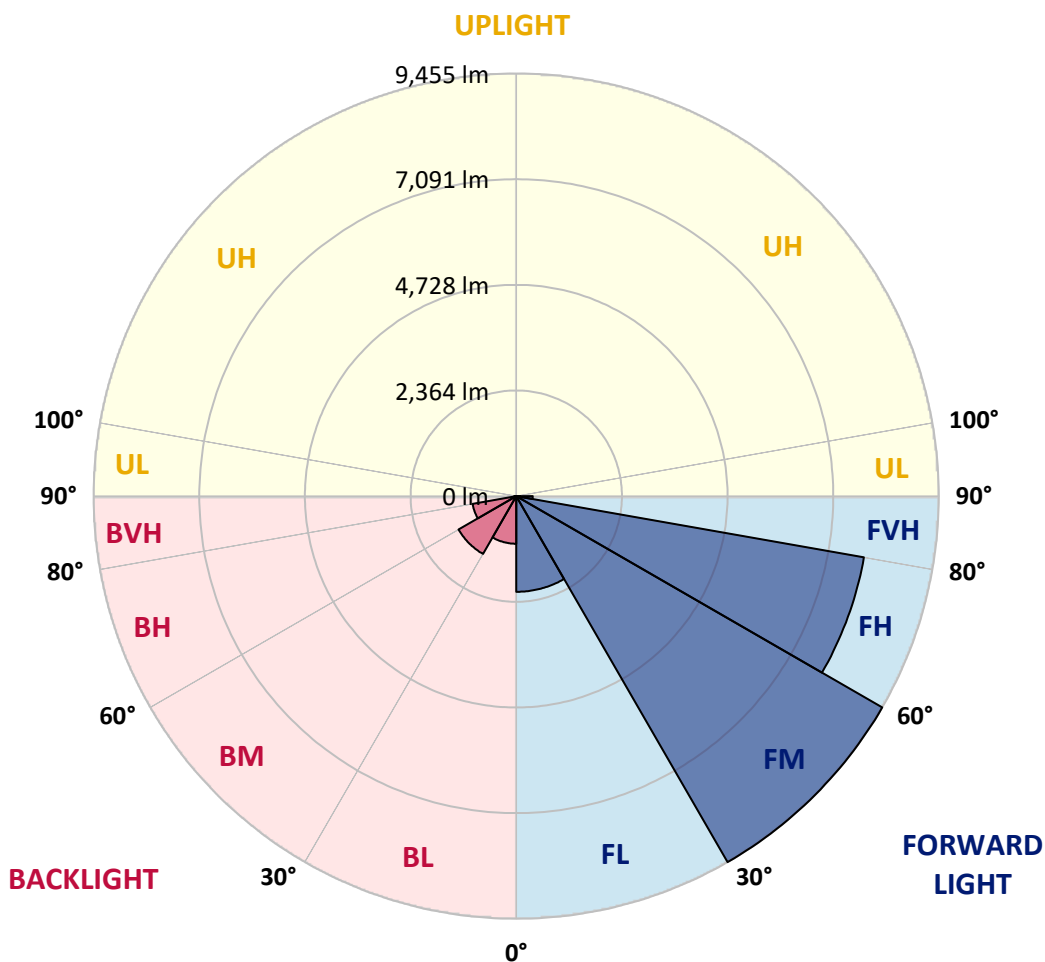
CATALOG NUMBER: IFLD-M-SA4C-727-U-SL3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2140.8	9.1			
FM (30°-60°)	9455.1	40.3			
FH (60°-80°)	7897.9	33.7			G4/12000
FVH (80°-90°)	369.9	1.6			G3/500
BL (0°-30°)	1065.6	4.5	B3/2500		
BM (30°-60°)	1491.2	6.4	B2/2500		
BH (60°-80°)	992.1	4.2	B2/1000		G2/1000
BVH (80°-90°)	49.2	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





REPORT NUMBER: P480401
 CATALOG NUMBER: IFLD-M-SA4C-727-U-SL3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	6451.7	6451.7	6451.7	6451.7	6451.7	6451.7	6451.7	6451.7	6451.7	6451.7	6451.7
2.5°	6625.9	6636.4	6636.4	6657.6	6586.3	6620.6	6615.3	6583.6	6594.2	6538.8	6483.3
5°	6438.5	6430.5	6472.8	6478.1	6533.5	6549.3	6562.5	6541.4	6546.7	6425.3	6372.5
7.5°	5958.0	5955.4	6026.7	6087.4	6203.5	6311.8	6383.0	6361.9	6390.9	6314.4	6190.3
10°	5387.8	5448.5	5522.5	5583.2	5797.0	5934.3	6119.0	6137.5	6248.4	6229.9	6005.5
12.5°	4960.2	4986.6	5042.0	5216.2	5411.6	5638.6	5902.6	5926.3	6034.6	6087.4	5892.0
15°	4609.1	4632.8	4704.1	4833.5	5052.6	5321.8	5657.1	5717.8	5934.3	5952.7	5744.2
17.5°	4353.0	4371.5	4419.0	4548.4	4727.9	5073.7	5390.5	5498.7	5783.8	5873.5	5591.1
20°	4252.7	4213.1	4239.5	4321.3	4500.9	4767.5	5176.6	5271.7	5636.0	5812.8	5445.9
22.5°	4207.8	4173.5	4189.4	4184.1	4326.6	4516.7	4947.0	5047.3	5496.1	5741.6	5316.5
25°	4242.2	4242.2	4226.3	4213.1	4229.0	4353.0	4698.8	4854.6	5308.6	5680.8	5184.6
27.5°	4426.9	4355.7	4363.6	4308.1	4292.3	4292.3	4588.0	4680.4	5247.9	5646.5	5076.3
30°	4545.7	4580.0	4582.7	4500.9	4419.0	4271.2	4485.0	4574.8	5197.8	5688.8	5013.0
32.5°	4849.3	4833.5	4788.6	4772.8	4651.3	4485.0	4535.2	4595.9	5168.7	5783.8	5031.5
35°	5152.9	5145.0	5147.6	5139.7	5013.0	4767.5	4669.8	4751.6	5221.5	5950.1	5094.8
37.5°	5467.0	5488.1	5577.9	5577.9	5443.3	5176.6	5047.3	5023.5	5414.2	6222.0	5245.3
40°	5781.2	5833.9	5947.5	6127.0	5936.9	5688.8	5480.2	5443.3	5646.5	6586.3	5606.9
42.5°	6082.1	6169.2	6393.6	6660.2	6596.8	6348.7	6071.5	6029.3	6124.3	7127.4	6111.1
45°	6467.5	6541.4	6895.1	7304.3	7391.4	7172.3	6847.6	6813.3	6808.0	7919.4	6805.4
47.5°	7053.5	7132.7	7486.5	7898.3	8167.5	8201.8	7837.6	7800.6	7673.9	8988.5	7821.7
50°	7787.4	7916.7	8215.0	8695.5	9086.2	9453.1	9350.2	9241.9	8993.8	10231.8	9109.9
52.5°	8323.3	8481.7	8885.6	9500.6	10189.6	10773.0	11142.6	11142.6	10572.4	11596.6	10659.5
55°	8465.8	8560.9	9070.3	9959.9	11139.9	12615.6	13389.0	13331.0	12451.9	13032.7	12462.5
57.5°	7898.3	8022.3	8640.1	9571.9	11638.9	14339.4	15619.7	15632.9	14505.7	14701.0	14241.7
60°	6335.5	6375.1	7103.7	8349.7	11158.4	15727.9	18666.0	18716.1	16841.9	16187.2	15147.1
62.5°	4379.4	4506.1	5055.2	6148.1	9244.6	15572.2	21604.1	21852.2	18713.5	16971.2	15289.7
65°	2882.7	2959.2	3252.2	3917.5	6435.8	13497.3	22517.5	23283.0	20144.3	17016.1	14693.1
67.5°	2090.7	2103.9	2191.0	2534.2	3867.3	9706.5	20957.3	22037.0	20680.2	16641.3	13294.0
70°	1689.5	1700.0	1731.7	1950.8	2497.2	6074.2	17092.7	18784.8	19072.5	14864.7	10707.0
72.5°	1372.7	1385.9	1425.5	1631.4	2059.0	3378.9	12499.4	14561.1	15514.1	10997.4	7116.9
75°	1079.7	1090.2	1185.3	1388.5	1935.0	2320.4	8291.6	10311.0	10440.4	6427.9	3331.4
77.5°	739.1	757.6	873.8	1177.3	1821.5	2030.0	5168.7	6604.8	5926.3	2515.7	1145.7
80°	469.9	496.3	564.9	892.3	1610.3	1937.6	3215.3	3943.9	2594.9	860.6	551.7
82.5°	277.2	303.6	372.2	578.1	1264.5	1797.7	2264.9	2468.2	1216.9	440.8	332.6
85°	153.1	171.6	224.4	348.5	741.8	1597.1	1813.5	1771.3	696.9	234.9	208.5
87.5°	50.2	58.1	81.8	139.9	306.2	752.3	1087.6	1021.6	361.7	108.2	81.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P480401
 CATALOG NUMBER: IFLD-M-SA4C-727-U-SL3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6451.7	6451.7	6451.7	6451.7	6451.7	6451.7	6451.7	6451.7	6451.7	6451.7	6451.7
2.5°	6446.4	6438.5	6319.7	6229.9	6076.8	5950.1	5899.9	5831.3	5828.7	5778.5	5765.3
5°	6290.6	6208.8	6026.7	5852.4	5580.5	5398.4	5232.1	5115.9	5068.4	4965.5	4941.7
7.5°	6090.0	5981.8	5702.0	5374.6	5055.2	4770.1	4511.4	4252.7	4107.5	4057.4	4001.9
10°	5881.5	5691.4	5277.0	4910.0	4463.9	4025.7	3619.2	3254.9	3056.9	2917.0	2856.3
12.5°	5715.2	5461.7	4933.8	4384.7	3796.0	3210.0	2737.5	2354.7	2130.3	2024.7	1977.2
15°	5527.7	5192.5	4558.9	3864.7	3130.8	2465.6	2003.6	1702.7	1612.9	1562.8	1554.8
17.5°	5329.7	4941.7	4152.4	3352.5	2481.4	1855.8	1557.5	1436.0	1396.5	1375.3	1364.8
20°	5145.0	4717.3	3735.3	2782.3	1942.9	1488.8	1348.9	1285.6	1282.9	1293.5	1290.9
22.5°	4883.6	4424.3	3323.5	2254.4	1552.2	1296.1	1206.4	1190.5	1206.4	1219.6	1224.9
25°	4735.8	4184.1	2864.2	1789.8	1282.9	1151.0	1121.9	1116.6	1140.4	1156.2	1153.6
27.5°	4582.7	3935.9	2436.5	1433.4	1124.6	1048.0	1042.7	1048.0	1071.8	1095.5	1092.9
30°	4463.9	3738.0	2035.3	1198.5	1003.1	974.1	968.8	974.1	987.3	989.9	989.9
32.5°	4366.2	3503.0	1694.7	1040.1	929.2	905.4	910.7	908.1	910.7	913.4	916.0
35°	4308.1	3363.1	1414.9	942.4	868.5	850.0	847.4	839.5	842.1	844.7	842.1
37.5°	4432.2	3294.5	1193.2	873.8	826.3	810.4	805.1	799.9	791.9	791.9	791.9
40°	4619.6	3257.5	1058.6	828.9	794.6	776.1	760.3	755.0	755.0	757.6	760.3
42.5°	4991.9	3318.2	966.2	794.6	755.0	733.9	718.0	720.7	728.6	736.5	731.2
45°	5530.4	3503.0	923.9	768.2	731.2	702.2	691.6	689.0	696.9	710.1	720.7
47.5°	6235.2	3790.7	908.1	744.4	715.4	675.8	662.6	670.5	681.1	699.5	691.6
50°	7388.8	4437.5	921.3	723.3	691.6	662.6	646.7	638.8	646.7	659.9	665.2
52.5°	8896.1	5612.2	971.4	712.7	675.8	652.0	625.6	612.4	620.4	630.9	630.9
55°	10699.1	7217.2	1111.4	699.5	649.4	636.2	607.2	580.8	586.0	586.0	583.4
57.5°	12288.2	8428.9	1277.7	681.1	633.6	615.1	578.1	546.4	541.2	543.8	546.4
60°	13001.0	8750.9	1356.9	675.8	633.6	588.7	538.5	506.8	498.9	493.6	493.6
62.5°	12876.9	8193.9	1195.8	652.0	649.4	567.6	501.6	467.2	456.7	446.1	448.8
65°	12127.2	7399.3	942.4	620.4	652.0	554.4	464.6	430.3	411.8	398.6	396.0
67.5°	10757.2	6317.0	747.1	596.6	625.6	530.6	432.9	393.3	377.5	364.3	359.0
70°	8415.7	4952.3	649.4	564.9	562.3	472.5	396.0	361.7	337.9	322.1	322.1
72.5°	5456.5	3130.8	557.0	501.6	485.7	396.0	343.2	322.1	303.6	290.4	290.4
75°	2470.8	1454.5	448.8	419.7	396.0	316.8	290.4	279.8	264.0	250.8	250.8
77.5°	887.0	620.4	335.3	330.0	295.7	245.5	234.9	227.0	216.5	203.3	203.3
80°	496.3	393.3	250.8	240.2	205.9	182.1	168.9	168.9	163.7	155.7	153.1
82.5°	314.1	256.1	184.8	161.0	134.6	121.4	116.2	113.5	110.9	100.3	97.7
85°	198.0	174.2	121.4	95.0	79.2	60.7	58.1	55.4	50.2	44.9	44.9
87.5°	89.8	100.3	47.5	29.0	21.1	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)