

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: P480402

Luminaire Tested: **IFLD-M-SA4D-727-U-SL3**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480402
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4D-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

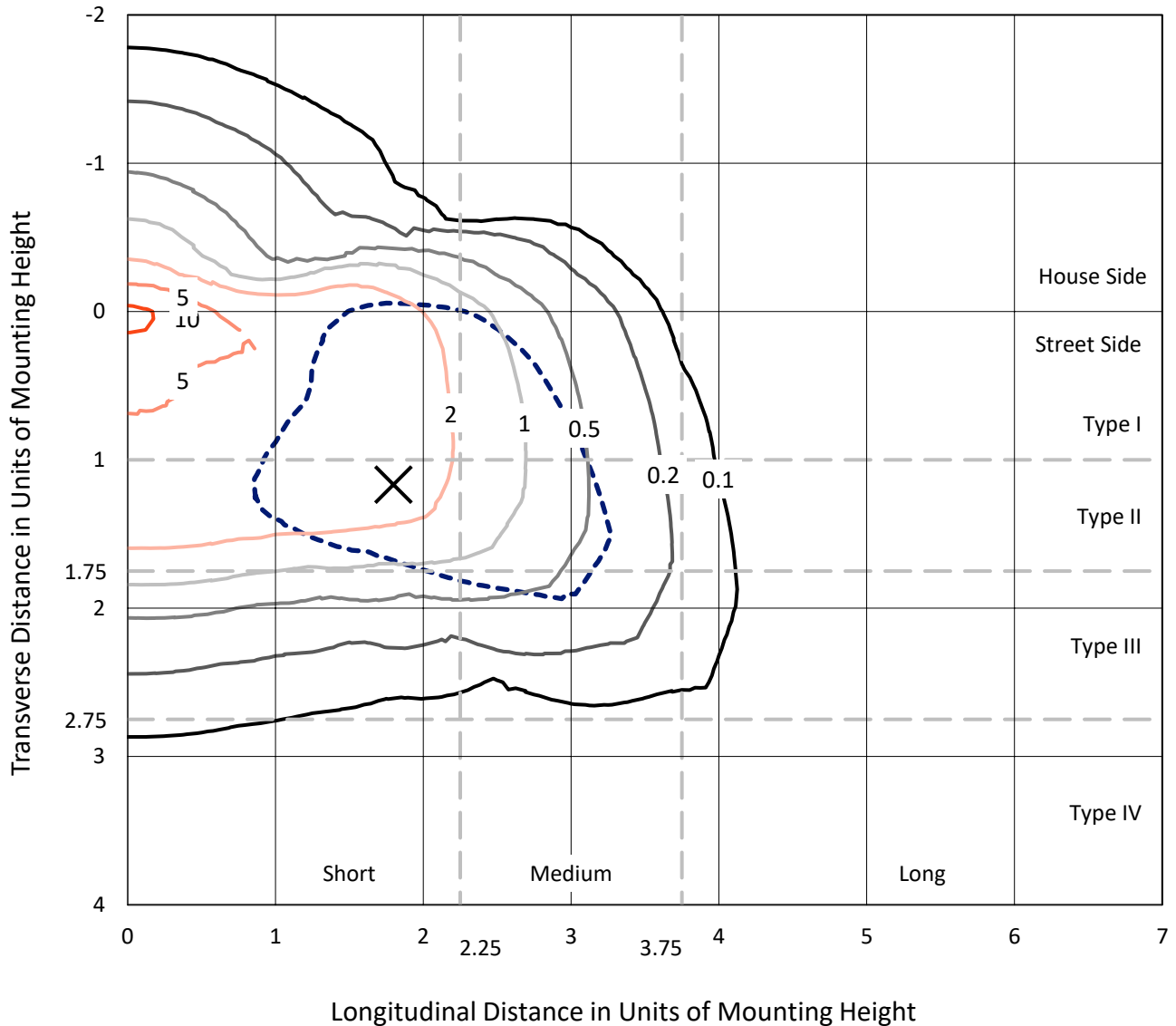
Lumens per Lamp: N/A
Luminaire Lumens: 25815.5 lumens
Efficiency: N/A
Efficacy: 103.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 249.7
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: P480402
 CATALOG NUMBER: IFLD-M-SA4D-727-U-SL3

Iso-Footcandle Lines of Horizontal Illumination

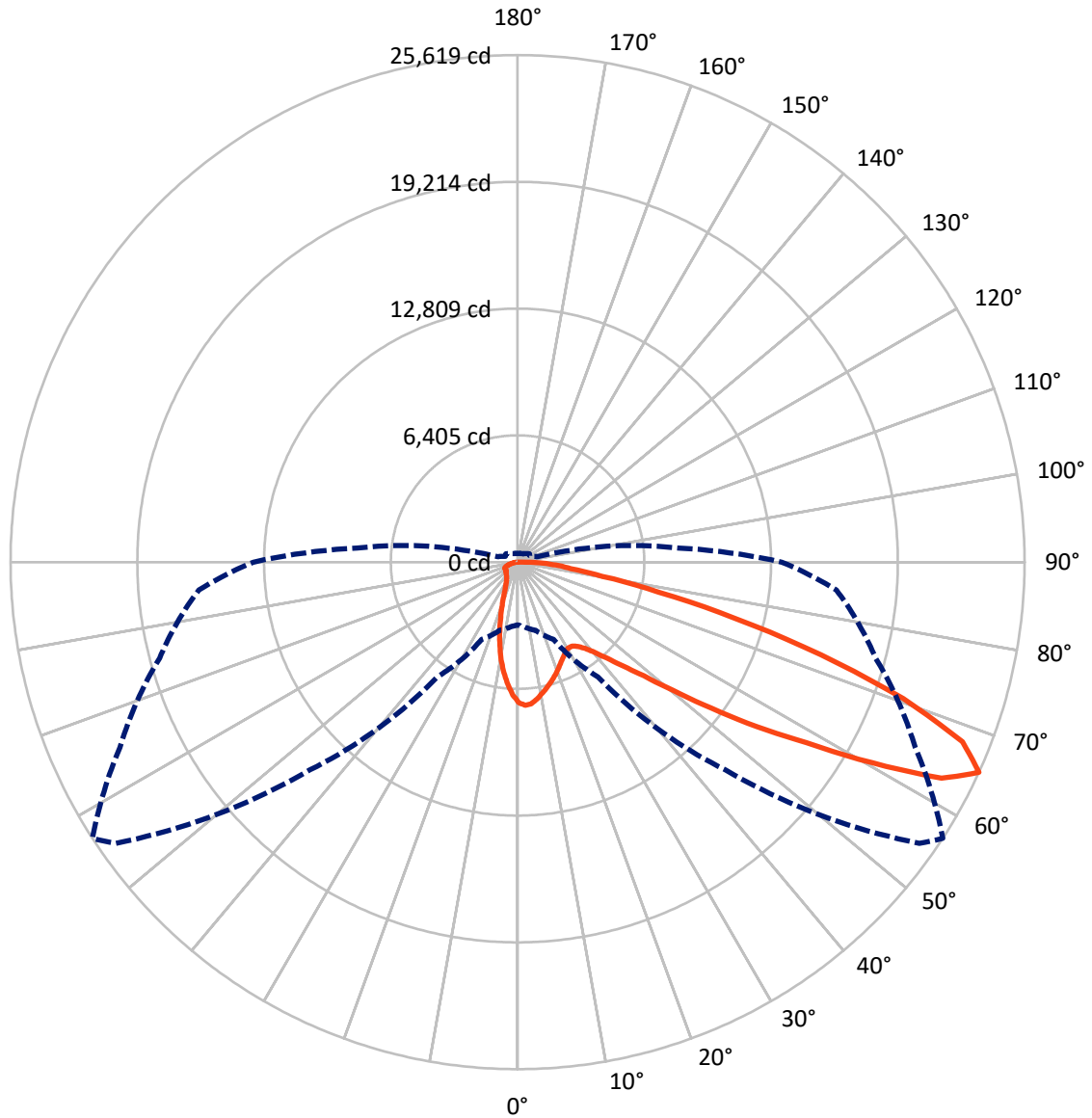
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.4 fc
 Type III - Short - N/A

REPORT NUMBER: P480402
CATALOG NUMBER: IFLD-M-SA4D-727-U-SL3

Luminous Intensity Polar Plot



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

REPORT NUMBER: P480402

CATALOG NUMBER: IFLD-M-SA4D-727-U-SL3

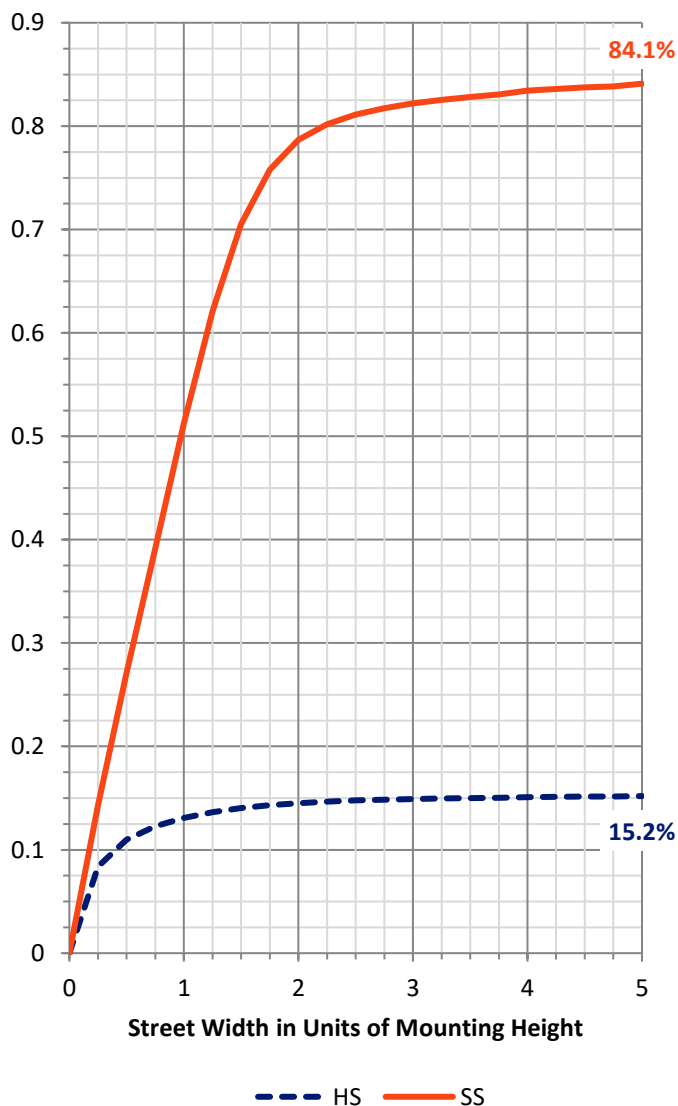
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3959.0	0.0	3959.0
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	21856.4	0.0	21856.4
	% Fixture	84.7	0.0	84.7
Total	Lumens	25815.5	0.0	25815.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	594.5	2.3
10°-20°	1279.4	5.0
20°-30°	1654.2	6.4
30°-40°	2226.0	8.6
40°-50°	3549.4	13.7
50°-60°	6269.1	24.3
60°-70°	6896.8	26.7
70°-80°	2885.1	11.2
80°-90°	461.1	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°	25815.5	100.0
0°-180°	25815.5	100.0

Coefficient of Utilization



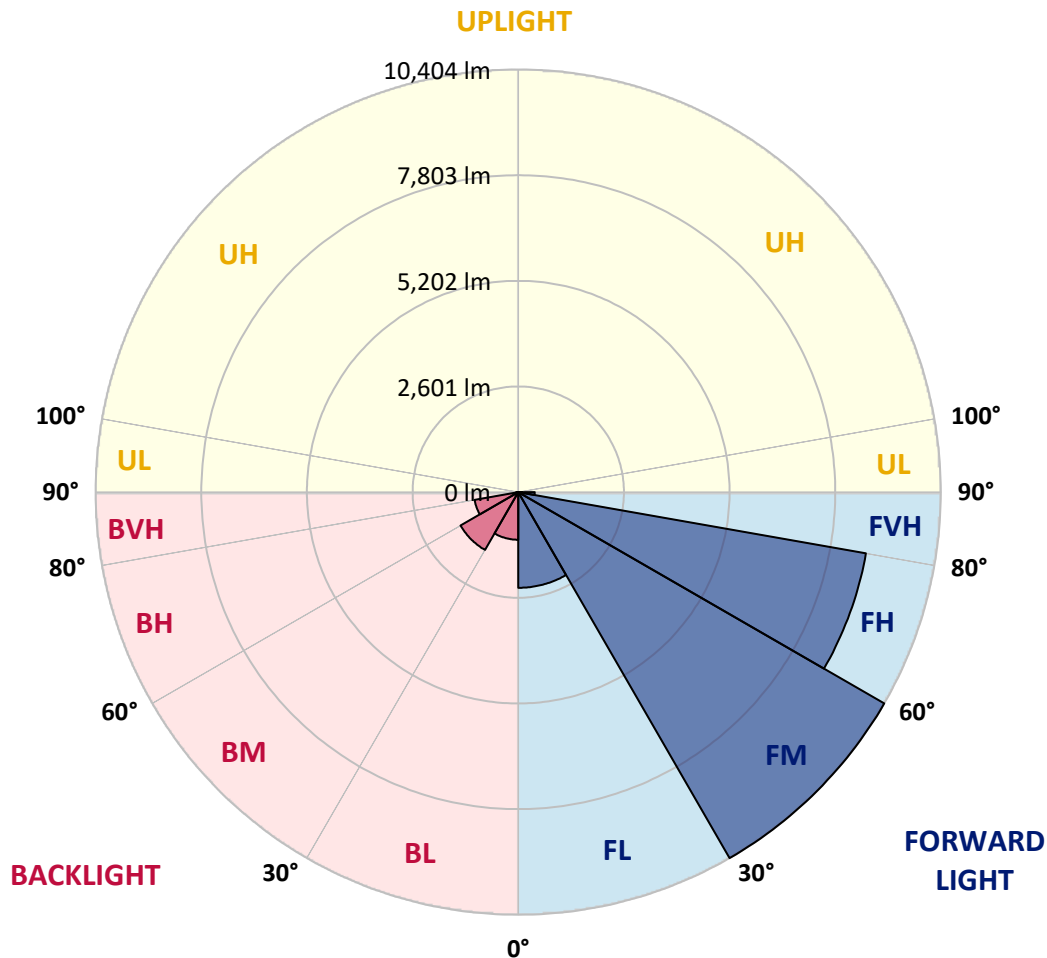
REPORT NUMBER: P480402
 CATALOG NUMBER: IFLD-M-SA4D-727-U-SL3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2355.6	9.1			
FM (30°-60°)	10403.6	40.3			
FH (60°-80°)	8690.3	33.7			G4/12000
FVH (80°-90°)	407.0	1.6			G3/500
BL (0°-30°)	1172.5	4.5	B3/2500		
BM (30°-60°)	1640.8	6.4	B2/2500		
BH (60°-80°)	1091.6	4.2	B3/2500		G3/2500
BVH (80°-90°)	54.1	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: P480402

CATALOG NUMBER: IFLD-M-SA4D-727-U-SL3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	7098.9	7098.9	7098.9	7098.9	7098.9	7098.9	7098.9	7098.9	7098.9	7098.9	7098.9
2.5°	7290.6	7302.2	7302.2	7325.4	7247.0	7284.8	7279.0	7244.1	7255.7	7194.7	7133.7
5°	7084.4	7075.6	7122.1	7127.9	7188.9	7206.4	7220.9	7197.6	7203.5	7069.8	7011.7
7.5°	6555.7	6552.8	6631.2	6698.0	6825.9	6944.9	7023.4	7000.1	7032.1	6947.8	6811.3
10°	5928.3	5995.1	6076.5	6143.3	6378.5	6529.6	6732.9	6753.2	6875.2	6854.9	6608.0
12.5°	5457.8	5486.8	5547.8	5739.5	5954.5	6204.3	6494.7	6520.9	6640.0	6698.0	6483.1
15°	5071.5	5097.6	5176.0	5318.4	5559.4	5855.7	6224.6	6291.4	6529.6	6549.9	6320.4
17.5°	4789.7	4810.0	4862.3	5004.7	5202.2	5582.7	5931.2	6050.3	6364.0	6462.8	6152.0
20°	4679.3	4635.8	4664.8	4754.9	4952.4	5245.7	5696.0	5800.5	6201.4	6396.0	5992.2
22.5°	4630.0	4592.2	4609.6	4603.8	4760.7	4969.8	5443.3	5553.6	6047.4	6317.5	5849.9
25°	4667.7	4667.7	4650.3	4635.8	4653.2	4789.7	5170.2	5341.6	5841.2	6250.7	5704.7
27.5°	4871.0	4792.6	4801.3	4740.3	4722.9	4722.9	5048.2	5149.9	5774.4	6213.0	5585.6
30°	5001.8	5039.5	5042.4	4952.4	4862.3	4699.7	4934.9	5033.7	5719.2	6259.5	5515.9
32.5°	5335.8	5318.4	5269.0	5251.5	5117.9	4934.9	4990.1	5056.9	5687.2	6364.0	5536.2
35°	5669.8	5661.1	5664.0	5655.3	5515.9	5245.7	5138.3	5228.3	5745.3	6547.0	5605.9
37.5°	6015.5	6038.7	6137.5	6137.5	5989.3	5696.0	5553.6	5527.5	5957.4	6846.2	5771.5
40°	6361.1	6419.2	6544.1	6741.6	6532.5	6259.5	6030.0	5989.3	6213.0	7247.0	6169.4
42.5°	6692.2	6788.1	7035.0	7328.4	7258.6	6985.6	6680.6	6634.1	6738.7	7842.5	6724.2
45°	7116.3	7197.6	7586.9	8037.1	8132.9	7891.8	7534.6	7496.8	7491.0	8713.9	7488.1
47.5°	7761.1	7848.3	8237.5	8690.6	8986.9	9024.6	8623.8	8583.1	8443.7	9890.2	8606.4
50°	8568.6	8710.9	9039.2	9567.8	9997.7	10401.4	10288.2	10169.1	9896.0	11258.3	10023.8
52.5°	9158.3	9332.5	9776.9	10453.7	11211.8	11853.7	12260.4	12260.4	11633.0	12760.0	11728.8
55°	9315.1	9419.7	9980.3	10959.1	12257.5	13881.2	14732.2	14668.3	13701.1	14340.1	13712.7
57.5°	8690.6	8827.1	9506.8	10532.1	12806.5	15777.9	17186.6	17201.1	15960.9	16175.8	15670.4
60°	6971.1	7014.7	7816.3	9187.3	12277.8	17305.7	20538.6	20593.7	18531.5	17811.1	16666.7
62.5°	4818.8	4958.2	5562.3	6764.9	10172.0	17134.3	23771.4	24044.4	20590.8	18673.8	16823.5
65°	3171.8	3256.1	3578.5	4310.5	7081.5	14851.3	24776.4	25618.7	22165.1	18723.2	16167.1
67.5°	2300.5	2315.0	2410.8	2788.4	4255.3	10680.3	23059.8	24247.8	22754.8	18310.7	14627.7
70°	1859.0	1870.6	1905.4	2146.5	2747.8	6683.5	18807.4	20669.3	20985.9	16355.9	11781.1
72.5°	1510.4	1524.9	1568.5	1795.1	2265.6	3717.9	13753.4	16021.9	17070.4	12100.6	7830.8
75°	1188.0	1199.6	1304.2	1527.8	2129.1	2553.2	9123.4	11345.4	11487.8	7072.7	3665.6
77.5°	813.3	833.6	961.4	1295.5	2004.2	2233.7	5687.2	7267.4	6520.9	2768.1	1260.6
80°	517.0	546.1	621.6	981.8	1771.8	2132.0	3537.8	4339.5	2855.2	946.9	607.1
82.5°	305.0	334.0	409.6	636.1	1391.3	1978.0	2492.2	2715.8	1339.0	485.1	366.0
85°	168.5	188.8	246.9	383.4	816.2	1757.3	1995.5	1949.0	766.8	258.5	229.5
87.5°	55.2	63.9	90.0	153.9	336.9	827.8	1196.7	1124.1	397.9	119.1	90.0
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: P480402
 CATALOG NUMBER: IFLD-M-SA4D-727-U-SL3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7098.9	7098.9	7098.9	7098.9	7098.9	7098.9	7098.9	7098.9	7098.9	7098.9	7098.9
2.5°	7093.1	7084.4	6953.7	6854.9	6686.4	6547.0	6491.8	6416.3	6413.4	6358.2	6343.7
5°	6921.7	6831.7	6631.2	6439.5	6140.4	5939.9	5757.0	5629.1	5576.9	5463.6	5437.4
7.5°	6701.0	6581.9	6274.0	5913.8	5562.3	5248.6	4964.0	4679.3	4519.6	4464.4	4403.4
10°	6471.5	6262.4	5806.3	5402.6	4911.7	4429.5	3982.2	3581.4	3363.5	3209.6	3142.8
12.5°	6288.5	6009.7	5428.7	4824.6	4176.8	3532.0	3012.1	2590.9	2344.0	2227.8	2175.6
15°	6082.3	5713.4	5016.3	4252.4	3444.9	2712.9	2204.6	1873.5	1774.7	1719.5	1710.8
17.5°	5864.4	5437.4	4569.0	3688.9	2730.3	2041.9	1713.7	1580.1	1536.5	1513.3	1501.7
20°	5661.1	5190.6	4110.0	3061.5	2137.8	1638.2	1484.3	1414.5	1411.6	1423.3	1420.4
22.5°	5373.5	4868.1	3656.9	2480.5	1707.9	1426.2	1327.4	1310.0	1327.4	1341.9	1347.7
25°	5210.9	4603.8	3151.5	1969.3	1411.6	1266.4	1234.5	1228.7	1254.8	1272.2	1269.3
27.5°	5042.4	4330.8	2681.0	1577.2	1237.4	1153.1	1147.3	1153.1	1179.3	1205.4	1202.5
30°	4911.7	4112.9	2239.5	1318.7	1103.8	1071.8	1066.0	1071.8	1086.3	1089.2	1089.2
32.5°	4804.2	3854.4	1864.8	1144.4	1022.4	996.3	1002.1	999.2	1002.1	1005.0	1007.9
35°	4740.3	3700.5	1556.9	1036.9	955.6	935.3	932.4	923.7	926.6	929.5	926.6
37.5°	4876.9	3625.0	1312.9	961.4	909.1	891.7	885.9	880.1	871.4	871.4	871.4
40°	5083.1	3584.3	1164.8	912.1	874.3	854.0	836.5	830.7	830.7	833.6	836.5
42.5°	5492.6	3651.1	1063.1	874.3	830.7	807.5	790.1	793.0	801.7	810.4	804.6
45°	6085.2	3854.4	1016.6	845.2	804.6	772.6	761.0	758.1	766.8	781.3	793.0
47.5°	6860.7	4171.0	999.2	819.1	787.2	743.6	729.1	737.8	749.4	769.7	761.0
50°	8130.0	4882.7	1013.7	795.9	761.0	729.1	711.6	702.9	711.6	726.2	732.0
52.5°	9788.6	6175.2	1068.9	784.2	743.6	717.4	688.4	673.9	682.6	694.2	694.2
55°	11772.4	7941.2	1222.8	769.7	714.5	700.0	668.1	639.0	644.8	644.8	641.9
57.5°	13521.0	9274.4	1405.8	749.4	697.1	676.8	636.1	601.3	595.4	598.4	601.3
60°	14305.2	9628.8	1493.0	743.6	697.1	647.7	592.5	557.7	549.0	543.2	543.2
62.5°	14168.7	9015.9	1315.8	717.4	714.5	624.5	551.9	514.1	502.5	490.9	493.8
65°	13343.8	8141.6	1036.9	682.6	717.4	610.0	511.2	473.5	453.1	438.6	435.7
67.5°	11836.3	6950.8	822.0	656.4	688.4	583.8	476.4	432.8	415.4	400.8	395.0
70°	9259.9	5449.1	714.5	621.6	618.7	519.9	435.7	397.9	371.8	354.4	354.4
72.5°	6003.8	3444.9	612.9	551.9	534.4	435.7	377.6	354.4	334.0	319.5	319.5
75°	2718.7	1600.4	493.8	461.8	435.7	348.6	319.5	307.9	290.5	275.9	275.9
77.5°	976.0	682.6	368.9	363.1	325.3	270.1	258.5	249.8	238.2	223.7	223.7
80°	546.1	432.8	275.9	264.3	226.6	200.4	185.9	185.9	180.1	171.4	168.5
82.5°	345.6	281.7	203.3	177.2	148.1	133.6	127.8	124.9	122.0	110.4	107.5
85°	217.8	191.7	133.6	104.6	87.1	66.8	63.9	61.0	55.2	49.4	49.4
87.5°	98.8	110.4	52.3	32.0	23.2	14.5	8.7	2.9	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)