

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: P479993

Luminaire Tested: **IFLD-S-SA3E-727-U-SL2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479993
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3E-727-U-SL2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens
Light Source: (48) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

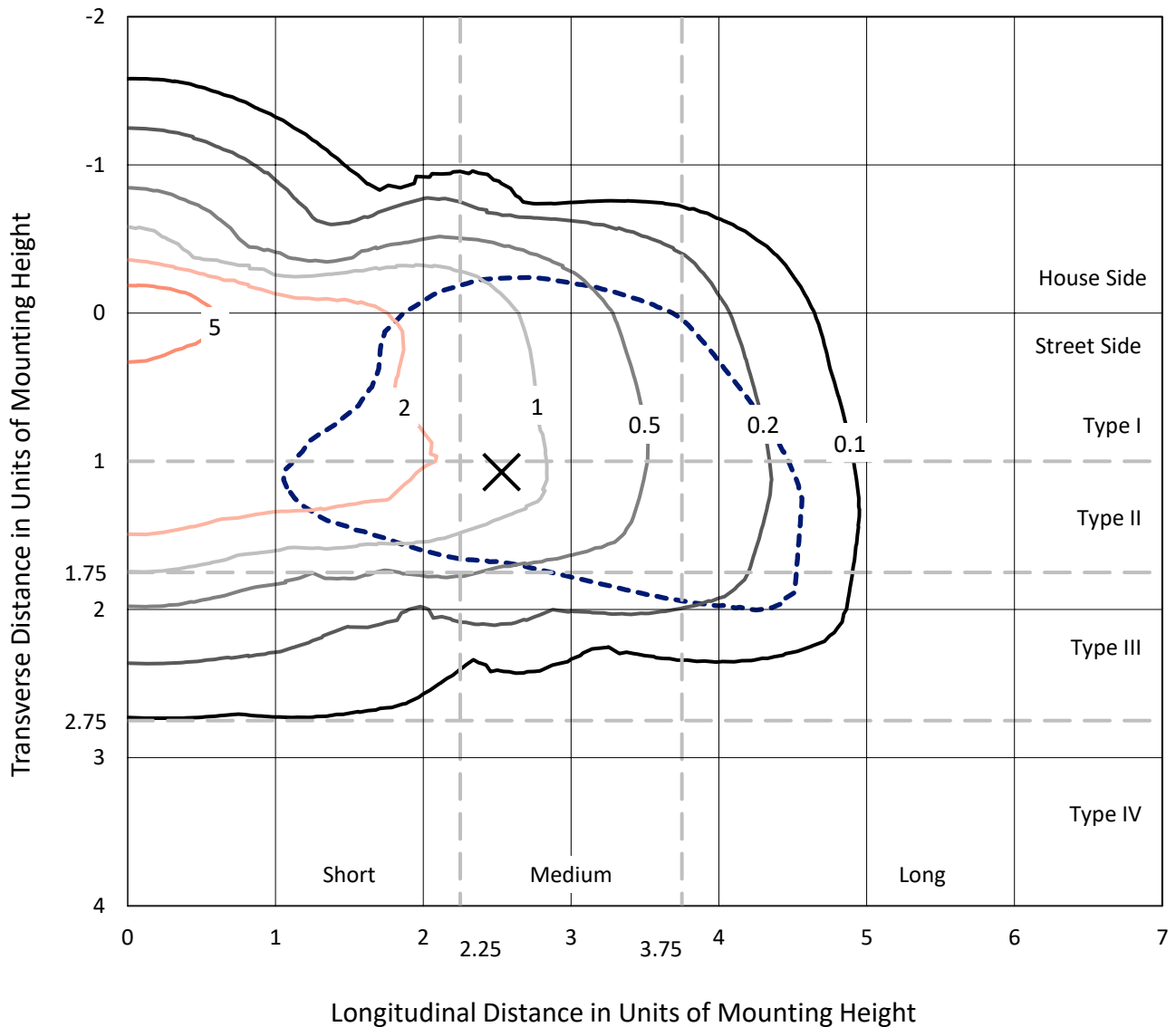
Lumens per Lamp: N/A
Luminaire Lumens: 22491.4 lumens
Efficiency: N/A
Efficacy: 96.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

Input Watts (W): 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

REPORT NUMBER: P479993
 CATALOG NUMBER: IFLD-S-SA3E-727-U-SL2

Iso-Footcandle Lines of Horizontal Illumination

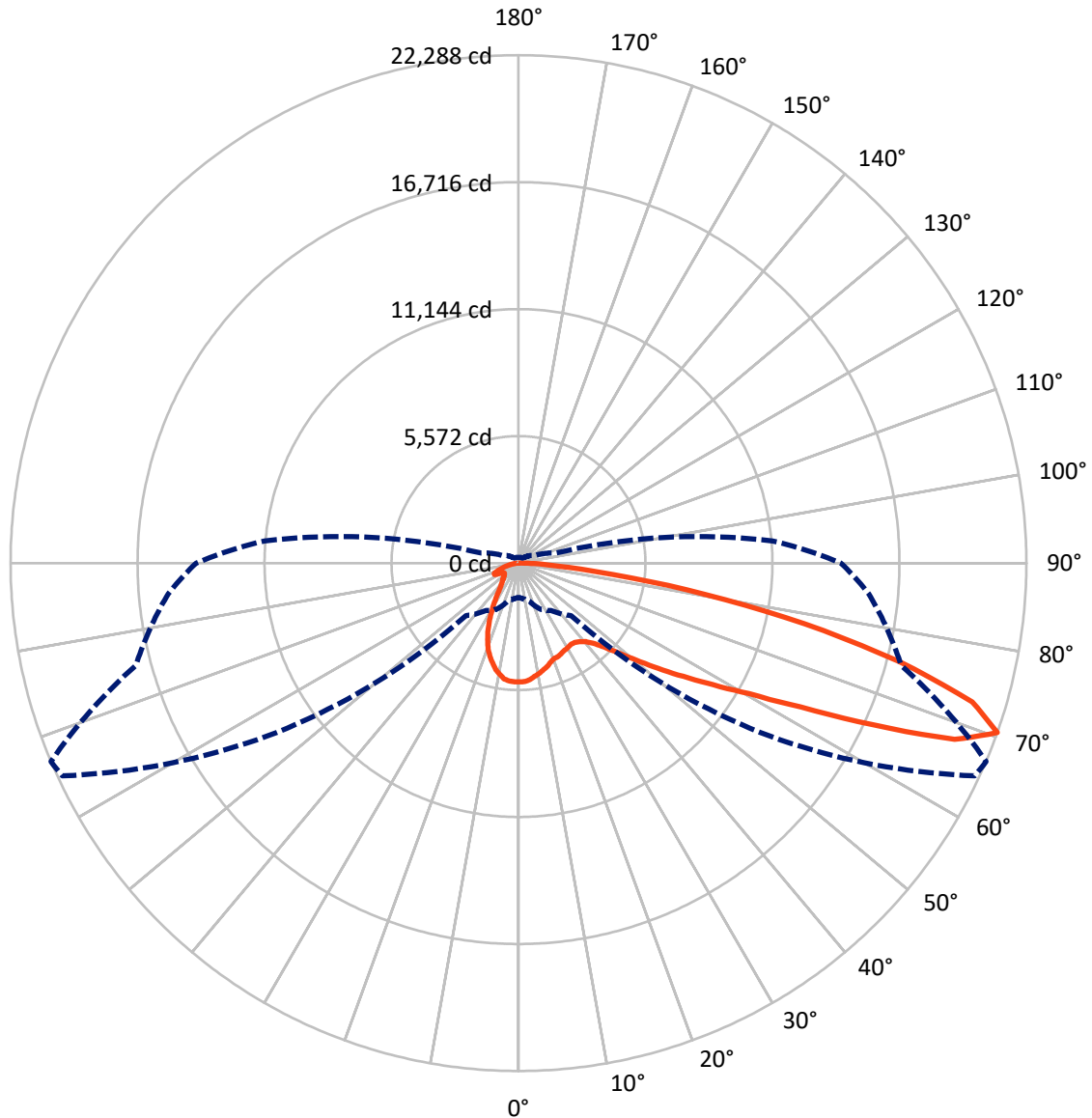
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.4 fc
 Type III - Medium - N/A

REPORT NUMBER: P479993
CATALOG NUMBER: IFLD-S-SA3E-727-U-SL2

Luminous Intensity Polar Plot



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

REPORT NUMBER: P479993
 CATALOG NUMBER: IFLD-S-SA3E-727-U-SL2

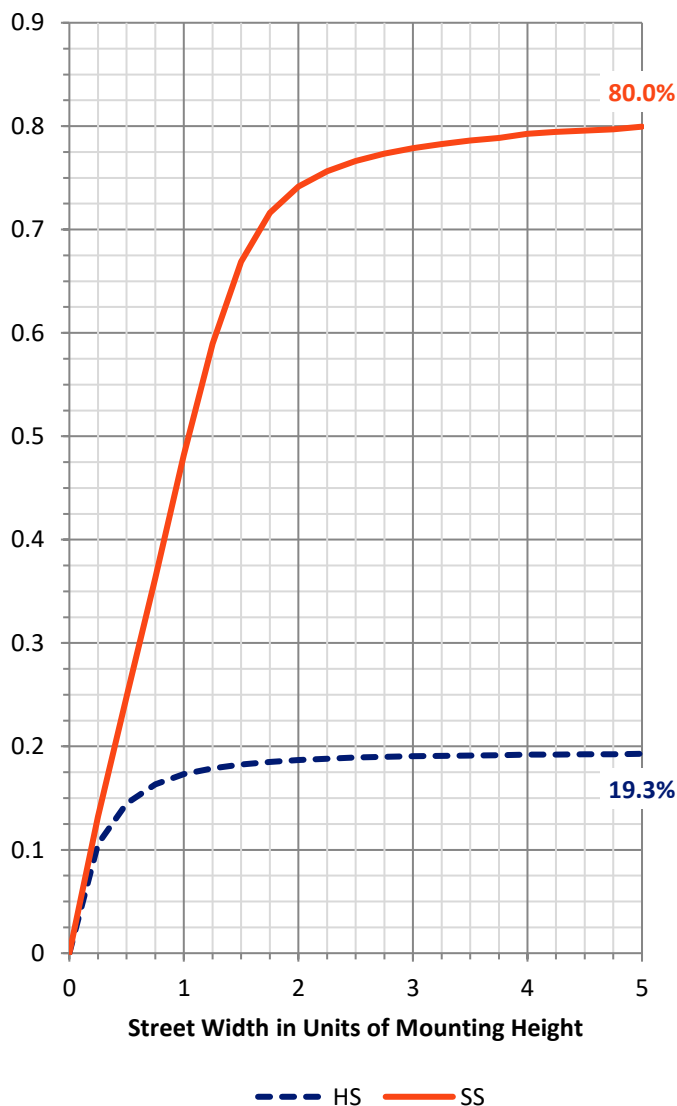
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4380.4	0.0	4380.4
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	18111.0	0.0	18111.0
	% Fixture	80.5	0.0	80.5
Total	Lumens	22491.4	0.0	22491.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	454.3	2.0
10°-20°	1088.0	4.8
20°-30°	1469.3	6.5
30°-40°	1966.0	8.7
40°-50°	2891.0	12.9
50°-60°	4506.4	20.0
60°-70°	5551.1	24.7
70°-80°	3922.4	17.4
80°-90°	642.9	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°	22491.4	100.0
0°-180°	22491.4	100.0

Coefficient of Utilization

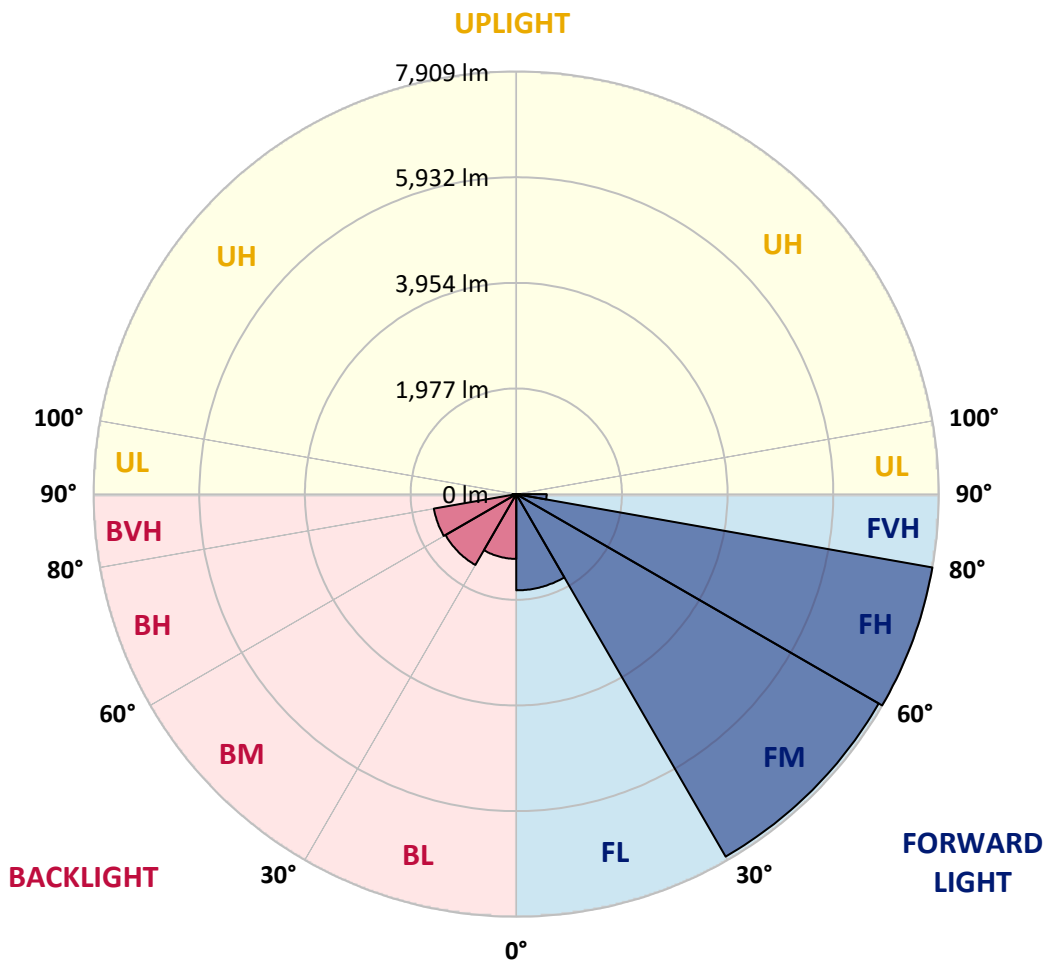


REPORT NUMBER: P479993
 CATALOG NUMBER: IFLD-S-SA3E-727-U-SL2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1800.3	8.0			
FM (30°-60°)	7833.3	34.8			
FH (60°-80°)	7908.7	35.2			G4/12000
FVH (80°-90°)	568.7	2.5			G4/750
BL (0°-30°)	1211.3	5.4	B3/2500		
BM (30°-60°)	1530.2	6.8	B2/2500		
BH (60°-80°)	1564.7	7.0	B3/2500		G3/2500
BVH (80°-90°)	74.2	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





REPORT NUMBER: P479993

CATALOG NUMBER: IFLD-S-SA3E-727-U-SL2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	5206.7	5206.7	5206.7	5206.7	5206.7	5206.7	5206.7	5206.7	5206.7	5206.7	5206.7
2.5°	4848.1	4902.9	4922.8	4952.7	5029.9	5087.2	5122.0	5161.9	5209.2	5249.0	5273.9
5°	4509.5	4539.4	4586.7	4619.0	4716.2	4870.5	4975.1	5144.4	5139.5	5201.7	5296.3
7.5°	4180.8	4210.7	4233.1	4297.8	4437.3	4576.7	4768.4	5042.4	5022.4	5166.9	5313.8
10°	3976.6	3954.2	3961.7	4071.2	4180.8	4337.7	4579.2	4858.1	4930.3	5154.4	5363.6
12.5°	3784.9	3760.0	3819.7	3889.5	4023.9	4165.9	4454.7	4706.2	4815.8	5109.6	5386.0
15°	3665.4	3647.9	3722.6	3752.5	3911.9	4081.2	4285.4	4591.7	4711.2	5054.8	5351.1
17.5°	3598.1	3613.1	3640.5	3705.2	3807.3	3951.7	4175.8	4514.5	4566.8	4987.6	5343.7
20°	3610.6	3628.0	3630.5	3657.9	3727.6	3839.7	4068.7	4432.3	4467.2	4975.1	5363.6
22.5°	3710.2	3685.3	3695.2	3677.8	3697.7	3784.9	3986.6	4322.7	4457.2	4870.5	5321.2
25°	3859.6	3824.7	3819.7	3760.0	3722.6	3747.5	3971.6	4295.3	4382.5	4838.2	5318.7
27.5°	4123.5	4071.2	4071.2	3981.6	3829.7	3789.9	3929.3	4250.5	4327.7	4808.3	5261.5
30°	4377.5	4377.5	4380.0	4253.0	4083.7	3887.0	3946.7	4233.1	4282.9	4718.6	5184.3
32.5°	4686.3	4678.8	4666.4	4604.1	4342.6	4048.8	4031.4	4210.7	4235.6	4688.8	5161.9
35°	4987.6	4967.7	5064.8	5010.0	4743.5	4365.1	4118.5	4220.6	4275.4	4643.9	5092.2
37.5°	5214.2	5226.6	5428.3	5463.2	5234.1	4723.6	4365.1	4320.2	4372.5	4708.7	5092.2
40°	5508.0	5557.8	5747.0	5864.1	5724.6	5196.7	4756.0	4487.1	4524.4	4853.1	5201.7
42.5°	5894.0	5936.3	6177.8	6329.7	6289.9	5799.3	5142.0	4835.7	4805.8	5094.6	5366.1
45°	6404.4	6411.9	6655.9	6865.1	6947.2	6429.3	5754.5	5276.4	5251.5	5510.5	5667.4
47.5°	7012.0	7004.5	7156.4	7380.5	7602.1	7181.3	6459.2	5946.2	5856.6	6105.6	6167.9
50°	7599.6	7567.3	7602.1	7888.5	8314.3	8122.5	7315.8	6765.5	6675.8	6812.8	6919.9
52.5°	7923.3	7963.2	7868.6	8247.1	9071.3	9235.6	8451.2	7744.1	7666.9	7734.1	7920.9
55°	7696.7	7778.9	7716.7	8075.2	9402.4	10592.7	9920.4	8877.0	8777.4	8752.5	9058.8
57.5°	6733.1	6882.5	6895.0	7462.7	9287.9	11643.5	11987.1	10214.2	10064.8	9810.8	10127.0
60°	5169.3	5318.7	5433.3	6105.6	8306.8	12271.0	14382.5	12116.6	11623.6	10966.2	11155.4
62.5°	3623.0	3725.1	3839.7	4253.0	6404.4	11902.4	16454.3	14795.9	13887.0	12183.8	12420.4
65°	2639.5	2719.1	2836.2	3080.2	3934.3	9848.2	17415.4	17978.2	17116.6	13732.6	13702.8
67.5°	1987.1	2036.9	2191.2	2582.2	2726.6	6083.2	16419.4	21339.7	20642.5	15453.3	14733.6
70°	1504.0	1546.3	1690.7	2226.1	2547.3	3262.0	12953.2	22089.2	22288.4	17383.0	15425.9
72.5°	1035.9	1083.2	1245.0	1855.1	2425.3	2587.2	8130.0	20067.3	20821.8	18177.4	14683.8
75°	635.0	667.3	762.0	1406.9	2407.9	2529.9	4474.6	16444.3	17243.6	16795.4	12846.2
77.5°	448.2	445.7	463.1	824.2	2086.7	2544.8	2759.0	12049.4	12826.3	12378.0	8717.7
80°	326.2	328.7	346.1	493.0	1416.8	2587.2	2173.8	8070.3	8301.8	6454.2	3438.8
82.5°	196.7	206.7	249.0	333.7	851.6	2335.7	2009.5	4484.6	4195.7	2071.7	946.2
85°	104.6	104.6	146.9	211.7	453.2	1743.0	1934.8	2134.0	1787.9	642.4	351.1
87.5°	24.9	24.9	42.3	84.7	181.8	834.2	1319.7	849.1	679.8	216.6	144.4
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: P479993
 CATALOG NUMBER: IFLD-S-SA3E-727-U-SL2

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5206.7	5206.7	5206.7	5206.7	5206.7	5206.7	5206.7	5206.7	5206.7	5206.7	5206.7
2.5°	5264.0	5234.1	5271.4	5196.7	5137.0	5139.5	5047.3	5042.4	5029.9	4965.2	4987.6
5°	5323.7	5298.8	5256.5	5174.3	5042.4	4910.4	4830.7	4728.6	4686.3	4663.9	4673.8
7.5°	5381.0	5336.2	5214.2	5099.6	4895.4	4646.4	4502.0	4365.1	4190.8	4170.8	4136.0
10°	5395.9	5301.3	5144.4	4900.4	4629.0	4352.6	4023.9	3769.9	3635.5	3530.9	3491.1
12.5°	5373.5	5333.7	5032.4	4718.6	4307.8	3874.5	3491.1	3132.5	2883.5	2754.0	2719.1
15°	5371.0	5301.3	4907.9	4442.3	3916.9	3351.6	2806.3	2375.5	2114.1	2007.0	2007.0
17.5°	5373.5	5206.7	4761.0	4163.4	3456.2	2691.7	2091.6	1738.1	1593.6	1578.7	1591.1
20°	5323.7	5137.0	4606.6	3834.7	2878.5	2021.9	1518.9	1374.5	1374.5	1394.4	1401.9
22.5°	5278.9	5032.4	4362.6	3428.8	2290.8	1464.2	1235.1	1192.7	1240.0	1274.9	1289.8
25°	5216.7	4945.2	4113.6	3008.0	1743.0	1180.3	1073.2	1083.2	1128.0	1190.2	1185.3
27.5°	5127.0	4793.3	3817.2	2519.9	1297.3	1018.4	991.0	996.0	1043.3	1070.7	1065.7
30°	5024.9	4639.0	3543.3	2034.4	1028.4	933.8	931.3	943.7	951.2	966.1	963.6
32.5°	4895.4	4434.8	3252.0	1581.2	926.3	886.5	876.5	869.0	876.5	874.0	866.5
35°	4803.3	4325.2	2955.7	1205.2	869.0	844.1	836.7	824.2	814.2	799.3	796.8
37.5°	4778.4	4215.7	2644.4	983.6	824.2	811.8	786.9	764.4	752.0	744.5	739.5
40°	4763.5	4143.4	2340.6	864.0	786.9	774.4	744.5	714.6	702.2	694.7	697.2
42.5°	4815.8	4103.6	2031.9	804.3	754.5	732.1	699.7	664.8	662.4	657.4	664.8
45°	5000.0	4153.4	1745.5	762.0	722.1	684.8	642.4	625.0	622.5	617.5	622.5
47.5°	5418.4	4277.9	1501.5	734.6	687.3	654.9	610.1	585.2	582.7	580.2	580.2
50°	5996.0	4661.4	1297.3	702.2	664.8	620.0	577.7	550.3	545.3	535.4	535.4
52.5°	6902.4	5306.3	1175.3	684.8	625.0	587.7	542.8	513.0	500.5	490.5	490.5
55°	7923.3	6105.6	1152.9	654.9	582.7	547.8	508.0	478.1	465.6	453.2	448.2
57.5°	9086.2	7163.9	1312.3	635.0	552.8	508.0	463.1	435.8	425.8	413.3	408.4
60°	10169.4	8219.7	1807.8	605.1	525.4	470.6	425.8	398.4	386.0	373.5	373.5
62.5°	11421.9	9526.9	2646.9	605.1	500.5	430.8	386.0	366.0	358.6	346.1	343.6
65°	12903.4	10879.0	3259.5	642.4	493.0	395.9	348.6	328.7	321.2	313.7	311.3
67.5°	14031.4	11655.9	2803.8	742.0	525.4	366.0	311.3	298.8	293.8	286.4	281.4
70°	14151.0	11182.8	1690.7	801.8	557.8	336.2	278.9	266.4	266.4	259.0	254.0
72.5°	13077.7	9922.9	1138.0	714.6	505.5	301.3	246.5	236.6	231.6	226.6	224.1
75°	10943.8	8416.4	898.9	570.2	388.4	249.0	214.1	204.2	196.7	194.2	189.2
77.5°	7350.6	5470.6	664.8	445.7	286.4	201.7	179.3	169.3	161.9	159.4	151.9
80°	2823.7	2084.2	428.3	323.7	201.7	159.4	141.9	132.0	127.0	119.5	114.5
82.5°	831.7	674.8	239.0	199.2	129.5	109.6	102.1	94.6	87.2	79.7	77.2
85°	343.6	308.8	146.9	104.6	79.7	64.7	59.8	52.3	44.8	39.8	34.9
87.5°	159.4	132.0	67.2	39.8	27.4	14.9	7.5	2.5	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)