

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: P480800

Luminaire Tested: **IFLD-L-SA8B-727-U-SL4**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480800
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8B-727-U-SL4
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens
Light Source: (128) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

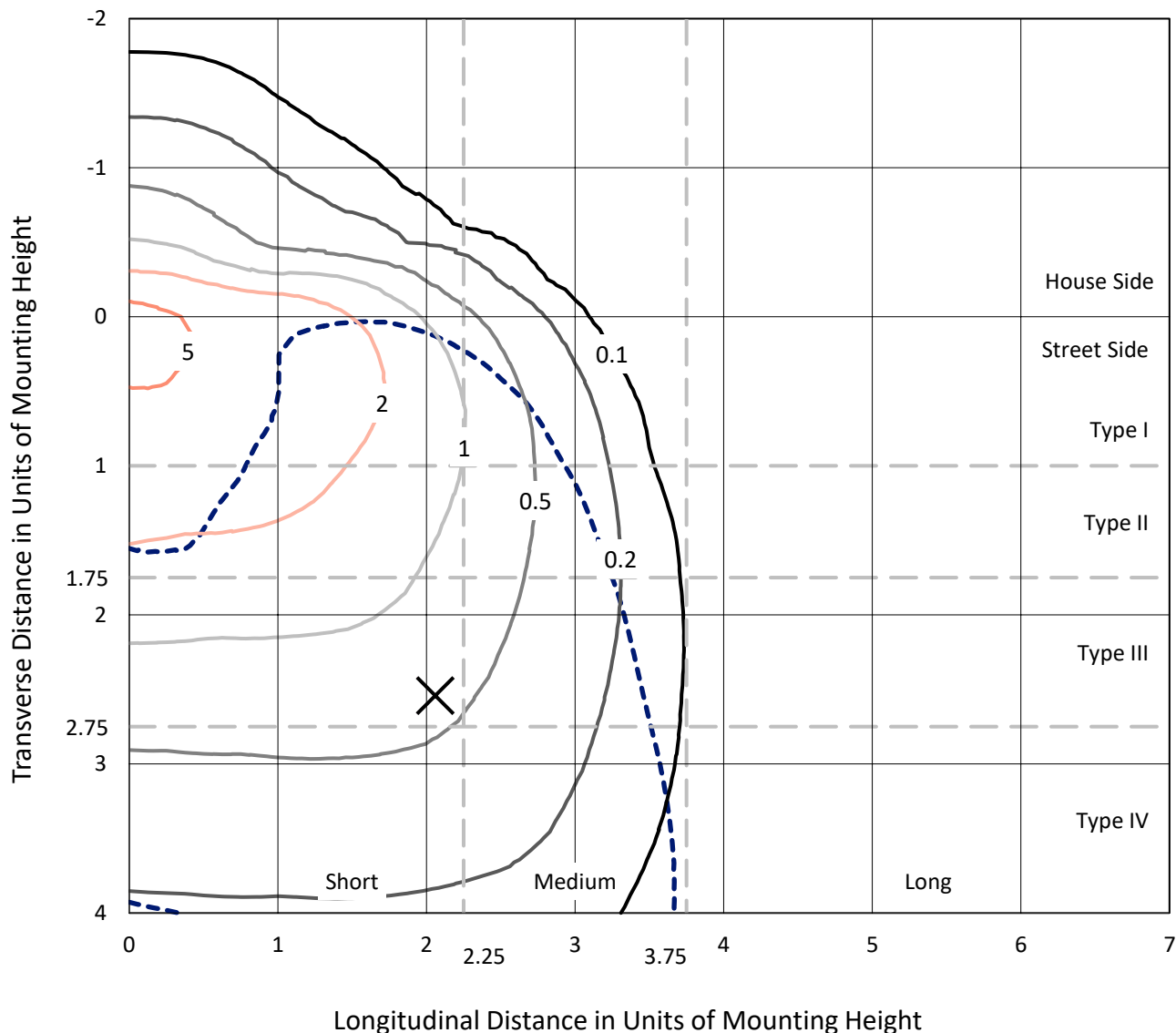
Lumens per Lamp: N/A
Luminaire Lumens: 32922.6 lumens
Efficiency: N/A
Efficacy: 102.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 320
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

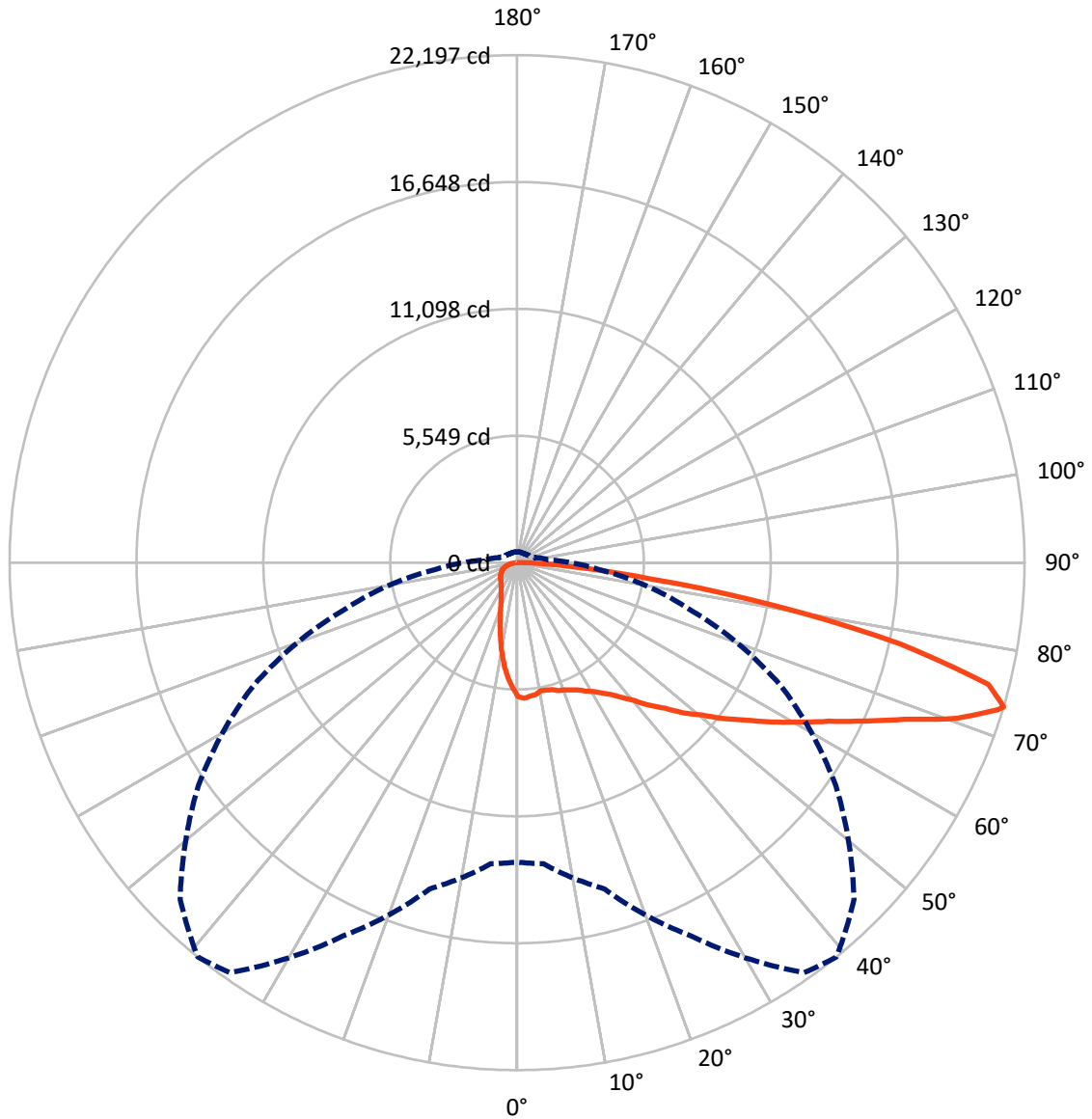
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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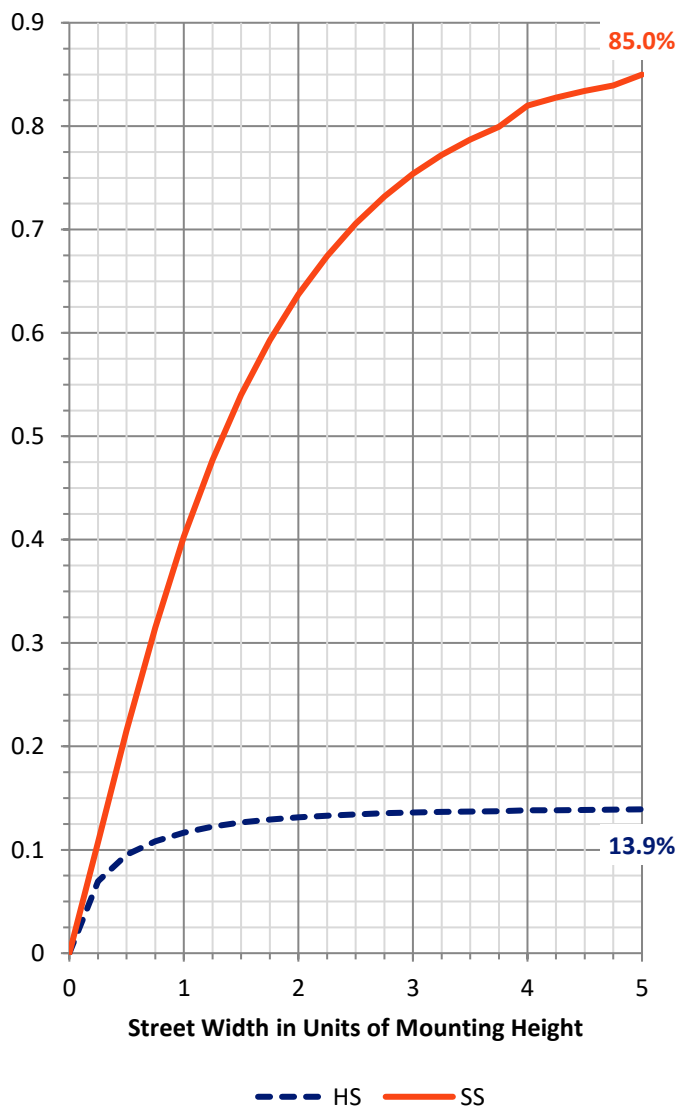
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4628.0	0.0	4628.0
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	28294.6	0.0	28294.6
	% Fixture	85.9	0.0	85.9
Total	Lumens	32922.6	0.0	32922.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	508.7	1.5
10°-20°	1293.3	3.9
20°-30°	1976.3	6.0
30°-40°	2881.4	8.8
40°-50°	4354.2	13.2
50°-60°	6305.1	19.2
60°-70°	8010.9	24.3
70°-80°	6494.1	19.7
80°-90°	1098.8	3.3
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°	32922.6	100.0
0°-180°	32922.6	100.0

Coefficient of Utilization



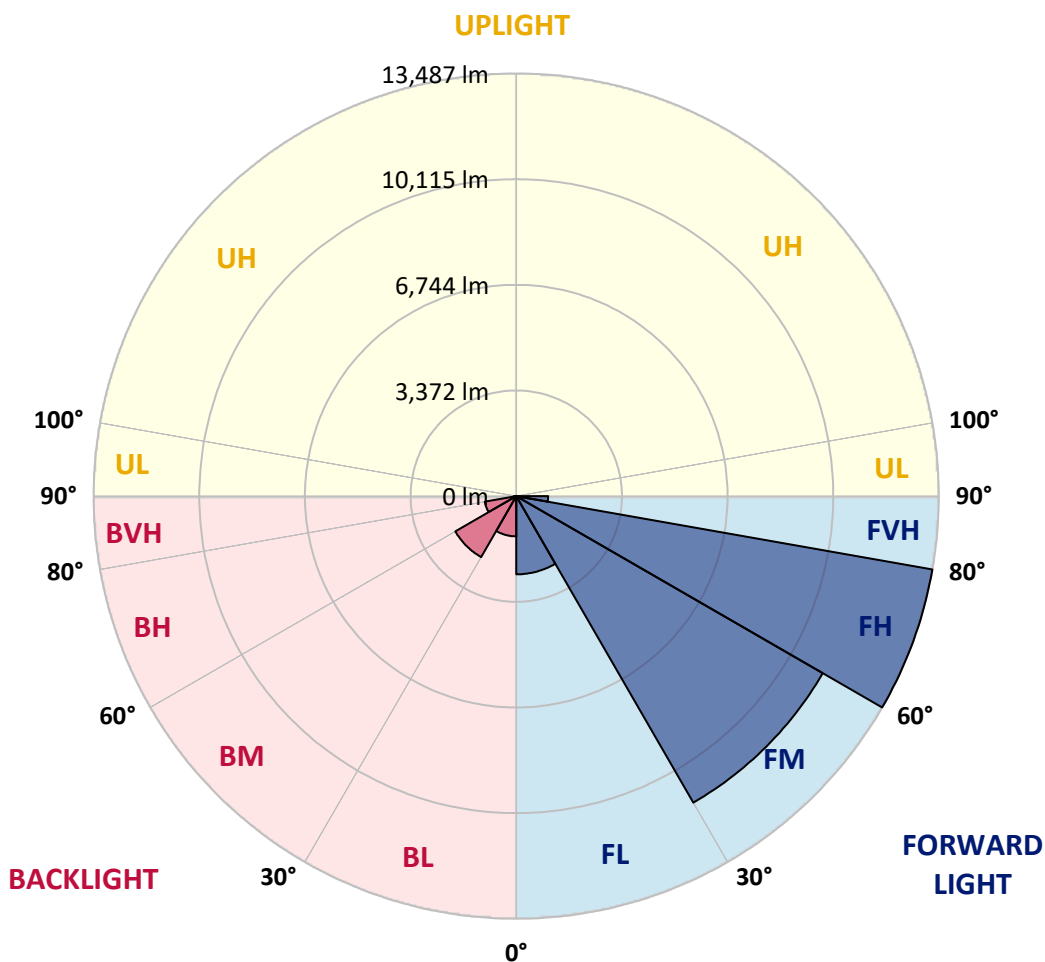
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2494.8	7.6			
FM (30°-60°)	11294.6	34.3			
FH (60°-80°)	13487.1	41.0			G5
FVH (80°-90°)	1018.2	3.1			G5
BL (0°-30°)	1283.4	3.9	B3/2500		
BM (30°-60°)	2246.1	6.8	B2/2500		
BH (60°-80°)	1017.9	3.1	B3/2500		G3/2500
BVH (80°-90°)	80.6	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-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	5860.4	5860.4	5860.4	5860.4	5860.4	5860.4	5860.4	5860.4	5860.4	5860.4	5860.4
2.5°	6000.4	5937.8	5948.8	5926.7	5948.8	5941.5	5930.4	5875.2	5930.4	5875.2	5860.4
5°	5919.4	5919.4	5956.2	5900.9	5908.3	5871.5	5908.3	5867.8	5831.0	5738.9	5713.1
7.5°	5893.6	5889.9	5893.6	5816.2	5853.1	5831.0	5794.1	5749.9	5676.3	5617.3	5532.6
10°	5716.8	5753.6	5713.1	5735.2	5764.7	5698.4	5694.7	5683.6	5650.5	5573.1	5521.5
12.5°	5621.0	5683.6	5705.7	5687.3	5713.1	5720.5	5698.4	5683.6	5643.1	5591.5	5444.2
15°	5661.5	5587.9	5650.5	5772.0	5746.2	5764.7	5768.3	5753.6	5735.2	5639.4	5543.7
17.5°	5672.6	5628.4	5761.0	5786.8	5819.9	5886.2	5842.0	5838.3	5768.3	5702.0	5562.1
20°	5698.4	5679.9	5786.8	5923.0	5926.7	5937.8	5959.9	5904.6	5867.8	5753.6	5540.0
22.5°	5794.1	5856.7	5956.2	6015.1	6048.3	6055.7	6055.7	5945.2	5904.6	5812.5	5643.1
25°	6081.4	6015.1	6155.1	6225.1	6177.2	6166.2	6140.4	6040.9	5996.7	5915.7	5691.0
27.5°	6291.4	6287.7	6368.8	6464.5	6335.6	6361.4	6269.3	6239.8	6140.4	6096.2	5775.7
30°	6578.7	6659.7	6656.1	6685.5	6516.1	6545.6	6427.7	6372.4	6317.2	6343.0	6026.2
32.5°	6947.1	6917.6	6965.5	6943.4	6773.9	6799.7	6659.7	6575.0	6593.4	6670.8	6368.8
35°	7182.8	7153.3	7171.8	7171.8	7120.2	7090.7	7031.8	6921.3	7009.7	7153.3	6751.8
37.5°	7437.0	7473.8	7580.6	7558.5	7492.2	7492.2	7484.8	7407.5	7521.7	7875.3	7363.3
40°	7661.7	7761.1	7827.4	7871.6	7949.0	7949.0	8011.6	7967.4	8173.7	8740.9	8111.0
42.5°	7897.4	7901.1	8262.1	8295.2	8468.3	8542.0	8589.9	8626.7	9013.5	9647.1	8910.4
45°	8199.4	8217.9	8534.6	8788.8	9057.7	9083.5	9264.0	9385.5	9860.7	10637.9	9779.7
47.5°	8597.3	8575.2	8914.0	9319.2	9654.4	9831.2	10048.6	10181.2	10766.8	11713.5	10730.0
50°	9120.3	9054.0	9249.2	9886.5	10280.6	10475.8	10862.6	11083.6	11768.7	12741.2	11382.0
52.5°	9757.6	9647.1	9801.8	10497.9	10940.0	11334.1	11702.4	11949.2	12663.8	13536.8	11864.5
55°	10431.6	10203.3	10247.5	11146.2	11783.5	12155.5	12660.1	12918.0	13647.3	14251.4	12347.1
57.5°	11098.4	10954.7	10866.3	11768.7	12789.1	13146.4	13610.5	13945.7	14564.5	14885.0	12755.9
60°	11658.2	11621.4	11477.7	12733.8	13853.6	14159.3	14645.5	14851.8	15319.6	15470.7	12763.3
62.5°	12118.7	11993.4	12221.8	13511.0	14936.5	15282.8	15816.9	15835.3	16166.8	15835.3	12387.6
65°	12479.7	12487.0	12851.7	14450.3	16188.9	16700.9	17131.9	17084.0	16870.4	15618.0	11499.9
67.5°	12807.5	12947.5	13481.6	15481.7	17798.6	18281.2	18760.0	18126.4	17061.9	14601.3	9764.9
70°	13065.3	13205.3	14332.5	16737.8	19695.6	20402.8	20509.7	18539.0	16181.6	12369.2	7367.0
72.5°	13035.9	13290.0	14815.0	17739.7	21379.0	21990.4	21128.5	17378.7	13481.6	8623.0	4298.6
73°	13098.5	13223.7	14774.5	18019.6	21891.0	22196.7	20841.2	17014.0	12715.4	7735.3	3635.6
75°	11890.3	12313.9	14041.5	17562.9	21342.1	21286.9	19191.0	14177.7	9039.3	4062.9	1760.7
77.5°	8796.2	9065.1	11065.2	14443.0	17518.7	17165.1	14476.1	9061.4	4291.3	1506.5	950.3
80°	4298.6	4508.6	5864.1	8339.4	11455.6	11485.1	8984.0	4714.9	1838.1	850.9	648.3
82.5°	2147.5	2272.7	2817.9	3665.1	5635.7	5904.6	4556.5	2681.6	1138.2	482.5	368.3
85°	1403.4	1491.8	1734.9	1793.9	2390.6	2523.2	2121.7	2092.2	740.4	261.5	298.4
87.5°	931.9	946.7	1064.5	906.1	957.7	920.9	1024.0	1318.7	217.3	110.5	81.0
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°	5860.4	5860.4	5860.4	5860.4	5860.4	5860.4	5860.4	5860.4	5860.4	5860.4	5860.4
2.5°	5842.0	5790.4	5735.2	5657.8	5602.6	5517.9	5440.5	5407.4	5400.0	5403.7	5366.8
5°	5691.0	5617.3	5506.8	5348.4	5256.3	5116.4	4998.5	4935.9	4869.6	4880.6	4851.2
7.5°	5481.0	5400.0	5230.6	5046.4	4818.0	4619.1	4508.6	4353.9	4265.5	4199.2	4236.0
10°	5414.7	5274.8	5020.6	4766.4	4412.8	4151.3	3897.1	3720.3	3598.8	3480.9	3532.5
12.5°	5381.6	5241.6	4888.0	4512.3	4055.5	3657.7	3300.4	3083.1	2910.0	2806.8	2847.3
15°	5352.1	5179.0	4762.8	4232.3	3720.3	3197.3	2795.8	2508.5	2342.7	2243.2	2254.3
17.5°	5392.6	5145.8	4578.6	3959.8	3352.0	2792.1	2346.4	2048.0	1878.6	1816.0	1801.2
20°	5352.1	5109.0	4398.1	3687.2	2983.6	2405.3	1978.0	1731.2	1613.4	1561.8	1550.7
22.5°	5366.8	5020.6	4210.2	3385.1	2641.1	2081.2	1731.2	1543.4	1451.3	1425.5	1432.9
25°	5436.8	4969.0	4022.4	3053.6	2302.2	1841.7	1572.8	1429.2	1362.9	1337.1	1344.5
27.5°	5488.4	5013.2	3852.9	2740.5	2014.9	1628.1	1440.2	1344.5	1300.3	1281.9	1278.2
30°	5617.3	5039.0	3687.2	2460.6	1779.1	1488.1	1348.2	1270.8	1241.3	1230.3	1226.6
32.5°	5808.9	5086.9	3495.6	2202.7	1606.0	1355.5	1274.5	1208.2	1200.8	1189.8	1193.5
35°	6122.0	5252.7	3282.0	1981.7	1440.2	1267.1	1197.1	1152.9	1152.9	1152.9	1164.0
37.5°	6571.3	5484.7	3090.4	1771.8	1333.4	1189.8	1130.8	1116.1	1108.7	1119.8	1127.1
40°	7149.7	5764.7	2935.7	1606.0	1241.3	1138.2	1086.6	1079.3	1075.6	1071.9	1079.3
42.5°	7783.2	6122.0	2803.1	1477.1	1175.0	1082.9	1046.1	1038.7	1024.0	1031.4	1042.4
45°	8413.1	6564.0	2685.3	1373.9	1130.8	1053.5	1001.9	998.2	990.9	987.2	1005.6
47.5°	9113.0	6998.6	2648.4	1311.3	1097.7	1009.3	972.4	968.8	946.7	943.0	957.7
50°	9658.1	7319.1	2688.9	1281.9	1049.8	976.1	950.3	931.9	913.5	895.1	895.1
52.5°	10033.8	7540.1	2718.4	1259.8	1024.0	931.9	898.8	891.4	873.0	854.6	847.2
55°	10372.7	7672.7	2725.8	1263.4	998.2	880.4	858.3	854.6	843.5	814.1	806.7
57.5°	10486.9	7617.5	2578.4	1230.3	983.5	847.2	817.7	825.1	810.4	784.6	780.9
60°	10475.8	7234.4	2243.2	1186.1	950.3	810.4	773.5	795.6	795.6	766.2	762.5
62.5°	9838.6	6350.3	1834.4	1101.4	913.5	773.5	733.0	766.2	777.2	758.8	755.1
65°	8516.2	5171.6	1532.3	1016.6	858.3	733.0	692.5	729.3	747.7	740.4	736.7
67.5°	7046.5	3956.1	1274.5	906.1	788.3	677.8	644.6	670.4	681.4	685.1	688.8
70°	4980.1	2633.7	1064.5	784.6	692.5	618.8	582.0	585.7	582.0	593.0	593.0
72.5°	2707.4	1517.6	865.6	666.7	596.7	537.8	512.0	493.6	493.6	489.9	489.9
73°	2316.9	1362.9	825.1	648.3	570.9	523.1	493.6	478.9	478.9	475.2	471.5
75°	1300.3	998.2	707.2	556.2	493.6	456.8	434.7	412.6	408.9	408.9	408.9
77.5°	854.6	777.2	563.6	445.7	397.8	364.7	357.3	335.2	335.2	335.2	331.5
80°	640.9	611.5	434.7	338.9	305.7	279.9	272.6	257.8	254.2	239.4	243.1
82.5°	427.3	482.5	316.8	239.4	206.3	191.5	191.5	187.9	176.8	158.4	158.4
85°	338.9	394.1	228.4	147.3	121.6	103.1	106.8	103.1	99.5	81.0	77.4
87.5°	62.6	158.4	66.3	40.5	29.5	18.4	18.4	11.1	7.4	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)