

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: P480833

Luminaire Tested: **IFLD-L-SA7A-730-U-SL4**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480833
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7A-730-U-SL4
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens
Light Source: (112) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

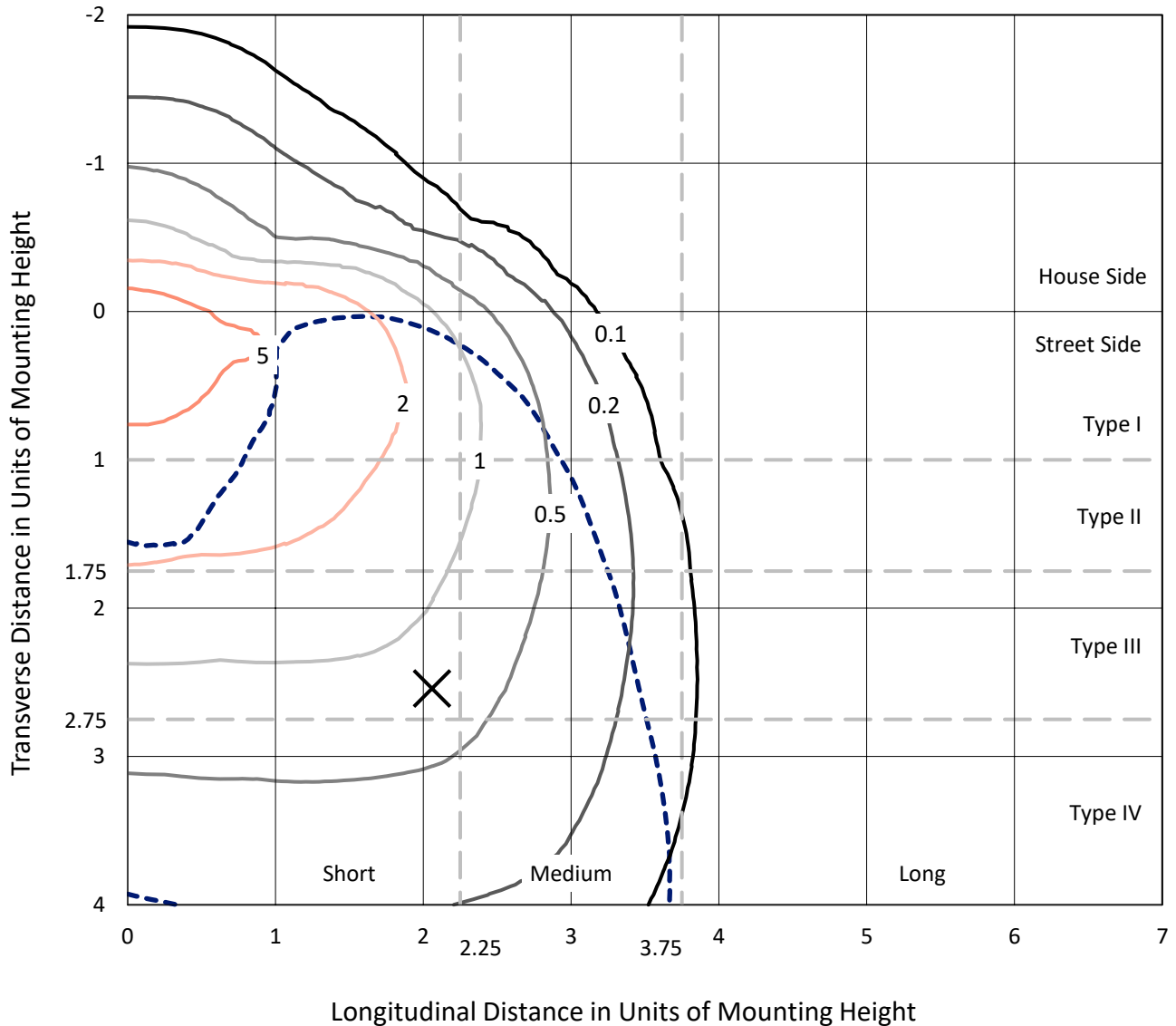
Lumens per Lamp: N/A
Luminaire Lumens: 27569.7 lumens
Efficiency: N/A
Efficacy: 126.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 217.6
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

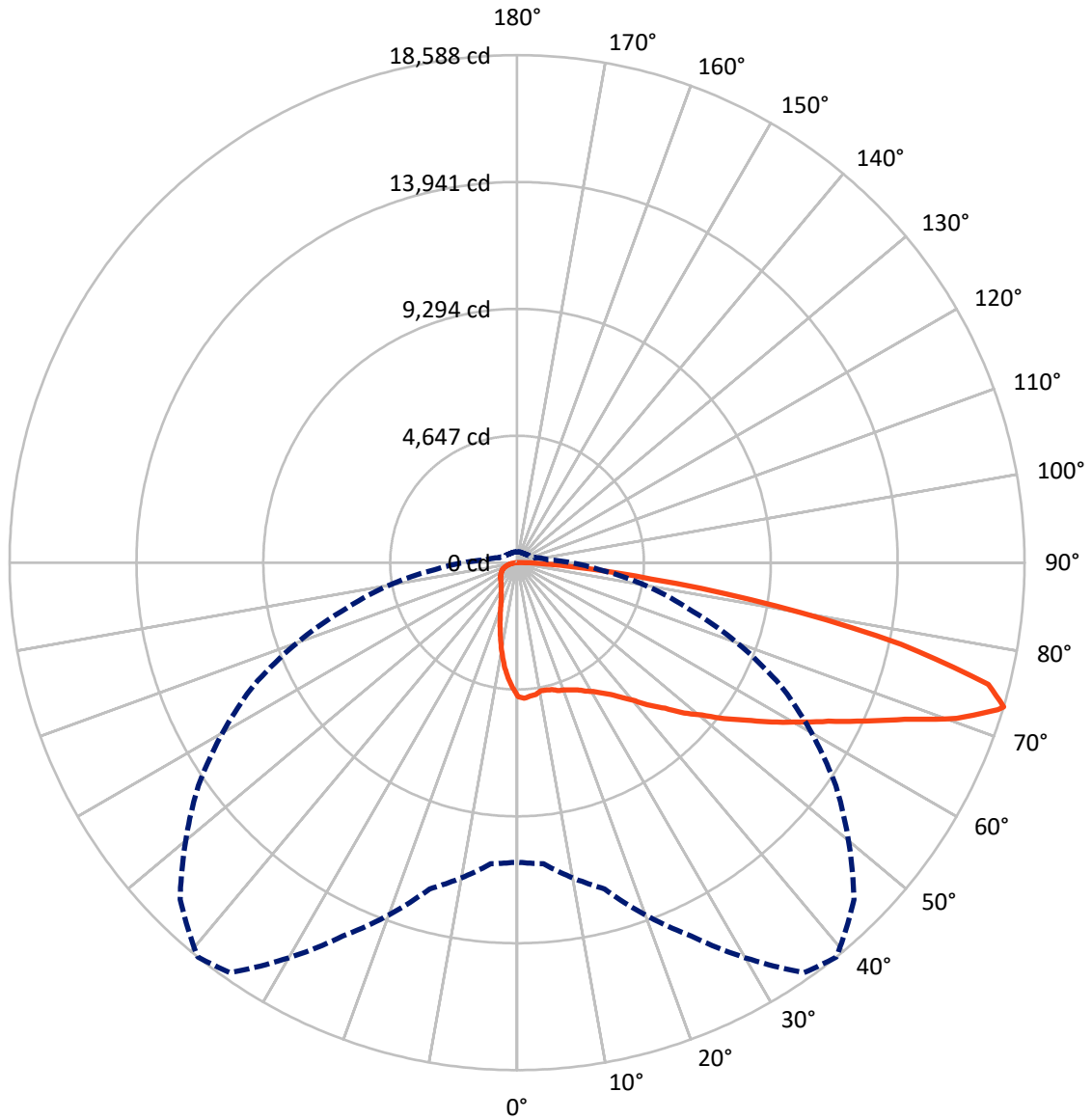
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 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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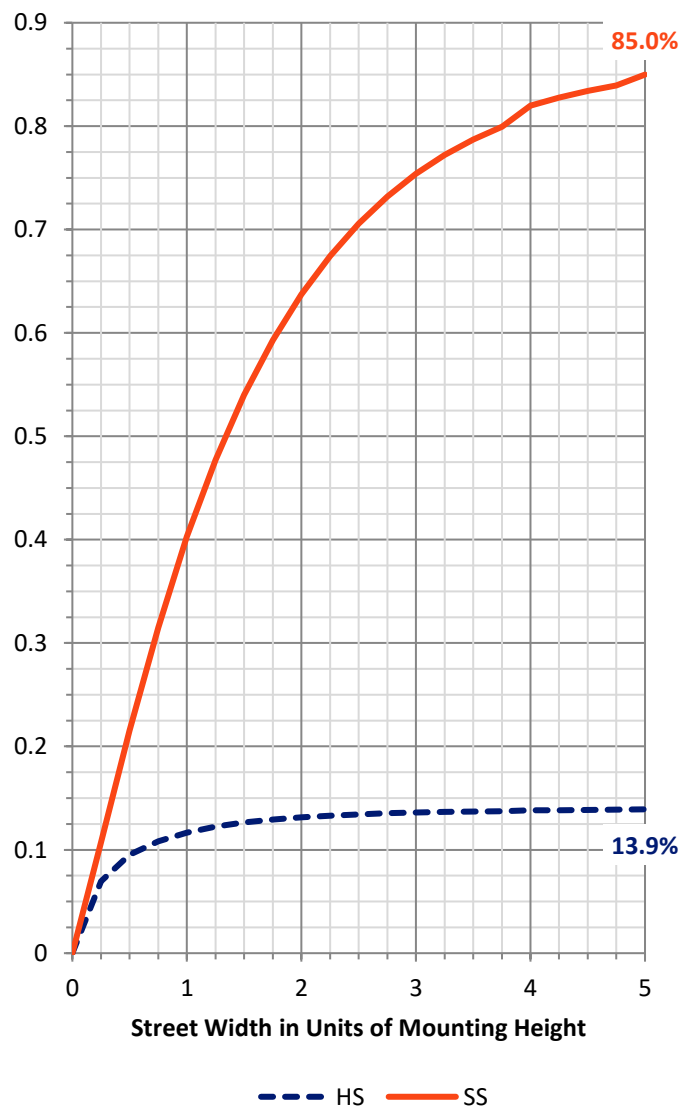
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3875.5	0.0	3875.5
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	23694.1	0.0	23694.1
	% Fixture	85.9	0.0	85.9
Total	Lumens	27569.7	0.0	27569.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	426.0	1.5
10°-20°	1083.0	3.9
20°-30°	1654.9	6.0
30°-40°	2412.9	8.8
40°-50°	3646.2	13.2
50°-60°	5279.9	19.2
60°-70°	6708.4	24.3
70°-80°	5438.2	19.7
80°-90°	920.1	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°	27569.7	100.0
0°-180°	27569.7	100.0

Coefficient of Utilization



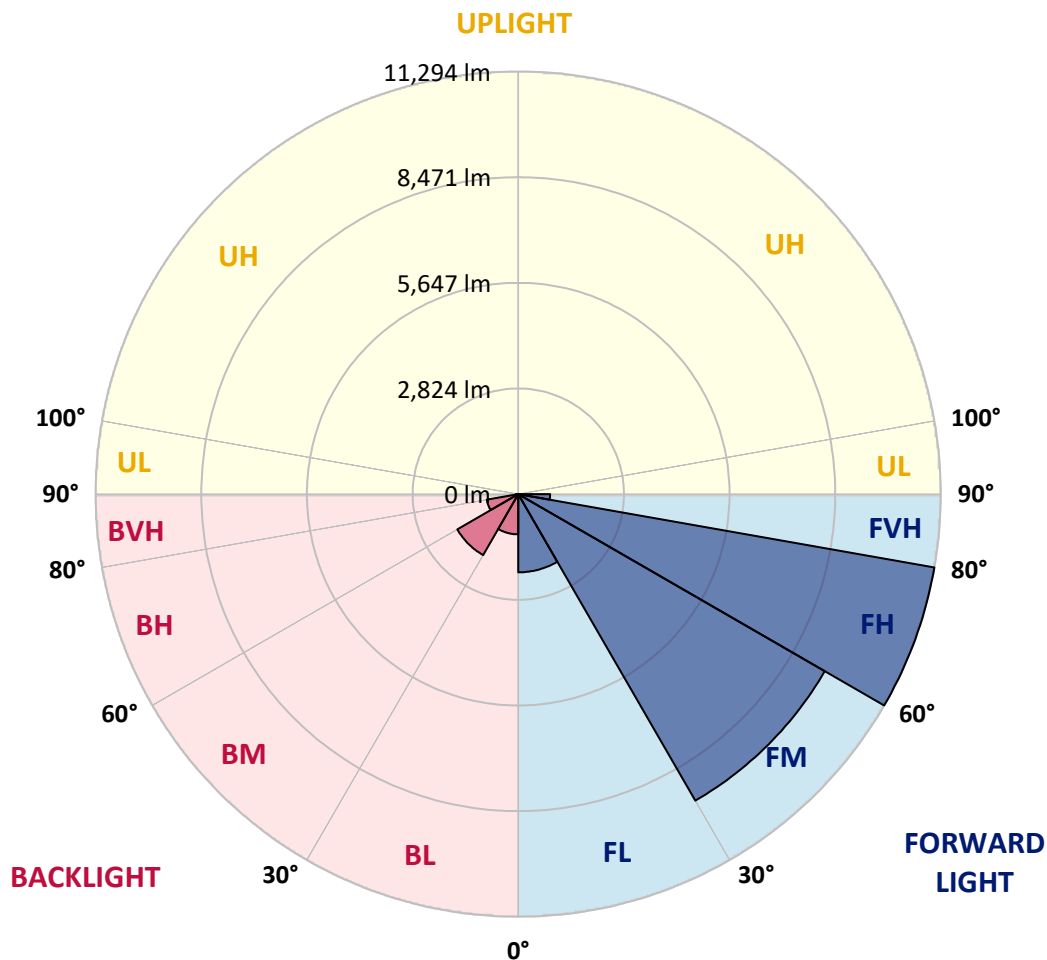
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2089.2	7.6			
FM (30°-60°)	9458.2	34.3			
FH (60°-80°)	11294.2	41.0			G4/12000
FVH (80°-90°)	852.6	3.1			G5
BL (0°-30°)	1074.8	3.9	B3/2500		
BM (30°-60°)	1880.9	6.8	B2/2500		
BH (60°-80°)	852.4	3.1	B2/1000		G2/1000
BVH (80°-90°)	67.5	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°	4907.6	4907.6	4907.6	4907.6	4907.6	4907.6	4907.6	4907.6	4907.6	4907.6	4907.6
2.5°	5024.8	4972.3	4981.6	4963.1	4981.6	4975.4	4966.2	4919.9	4966.2	4919.9	4907.6
5°	4956.9	4956.9	4987.8	4941.5	4947.7	4916.8	4947.7	4913.7	4882.9	4805.8	4784.2
7.5°	4935.3	4932.2	4935.3	4870.6	4901.4	4882.9	4852.0	4815.0	4753.3	4704.0	4633.0
10°	4787.3	4818.1	4784.2	4802.7	4827.4	4771.8	4768.8	4759.5	4731.7	4667.0	4623.8
12.5°	4707.1	4759.5	4778.0	4762.6	4784.2	4790.4	4771.8	4759.5	4725.6	4682.4	4559.0
15°	4741.0	4679.3	4731.7	4833.5	4811.9	4827.4	4830.5	4818.1	4802.7	4722.5	4642.3
17.5°	4750.3	4713.2	4824.3	4845.9	4873.6	4929.2	4892.1	4889.1	4830.5	4774.9	4657.7
20°	4771.8	4756.4	4845.9	4960.0	4963.1	4972.3	4990.9	4944.6	4913.7	4818.1	4639.2
22.5°	4852.0	4904.5	4987.8	5037.1	5064.9	5071.1	5071.1	4978.5	4944.6	4867.5	4725.6
25°	5092.6	5037.1	5154.3	5212.9	5172.8	5163.6	5142.0	5058.7	5021.7	4953.8	4765.7
27.5°	5268.5	5265.4	5333.2	5413.4	5305.5	5327.1	5250.0	5225.3	5142.0	5105.0	4836.6
30°	5509.1	5576.9	5573.8	5598.5	5456.6	5481.3	5382.6	5336.3	5290.1	5311.6	5046.4
32.5°	5817.5	5792.8	5832.9	5814.4	5672.5	5694.1	5576.9	5506.0	5521.4	5586.2	5333.2
35°	6014.9	5990.3	6005.7	6005.7	5962.5	5937.8	5888.5	5795.9	5870.0	5990.3	5654.0
37.5°	6227.8	6258.6	6348.1	6329.6	6274.0	6274.0	6267.9	6203.1	6298.7	6594.8	6166.1
40°	6415.9	6499.2	6554.7	6591.7	6656.5	6656.5	6709.0	6671.9	6844.7	7319.7	6792.2
42.5°	6613.3	6616.4	6918.7	6946.5	7091.5	7153.1	7193.2	7224.1	7548.0	8078.5	7461.6
45°	6866.3	6881.7	7147.0	7359.8	7585.0	7606.6	7757.7	7859.5	8257.4	8908.3	8189.6
47.5°	7199.4	7180.9	7464.7	7804.0	8084.7	8232.7	8414.7	8525.8	9016.2	9809.0	8985.4
50°	7637.4	7581.9	7745.4	8279.0	8609.1	8772.5	9096.4	9281.5	9855.2	10669.6	9531.4
52.5°	8171.1	8078.5	8208.1	8791.1	9161.2	9491.3	9799.7	10006.4	10604.8	11335.8	9935.4
55°	8735.5	8544.3	8581.3	9333.9	9867.6	10179.1	10601.7	10817.6	11428.4	11934.2	10339.5
57.5°	9293.8	9173.5	9099.5	9855.2	10709.7	11008.9	11397.5	11678.2	12196.4	12464.8	10681.9
60°	9762.7	9731.9	9611.6	10663.4	11601.1	11857.1	12264.3	12437.0	12828.8	12955.2	10688.1
62.5°	10148.3	10043.4	10234.6	11314.2	12508.0	12797.9	13245.2	13260.6	13538.2	13260.6	10373.4
65°	10450.6	10456.7	10762.1	12100.8	13556.7	13985.5	14346.4	14306.3	14127.4	13078.6	9630.1
67.5°	10725.1	10842.3	11289.6	12964.5	14904.7	15308.8	15709.8	15179.2	14287.8	12227.3	8177.2
70°	10941.0	11058.2	12002.1	14016.3	16493.3	17085.5	17174.9	15524.7	13550.6	10358.0	6169.2
72.5°	10916.3	11129.2	12406.2	14855.3	17902.9	18414.9	17693.2	14553.0	11289.6	7221.0	3599.7
73°	10968.8	11073.6	12372.3	15089.8	18331.7	18587.7	17452.6	14247.7	10648.0	6477.6	3044.5
75°	9957.0	10311.8	11758.4	14707.3	17872.1	17825.8	16070.7	11872.5	7569.6	3402.3	1474.4
77.5°	7366.0	7591.2	9266.1	12094.6	14670.3	14374.1	12122.4	7588.1	3593.5	1261.6	795.8
80°	3599.7	3775.5	4910.7	6983.5	9593.0	9617.7	7523.3	3948.3	1539.2	712.5	542.9
82.5°	1798.3	1903.2	2359.7	3069.2	4719.4	4944.6	3815.6	2245.6	953.1	404.1	308.5
85°	1175.2	1249.3	1452.8	1502.2	2001.9	2112.9	1776.7	1752.0	620.0	219.0	249.9
87.5°	780.4	792.7	891.4	758.8	802.0	771.1	857.5	1104.3	182.0	92.5	67.9
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°	4907.6	4907.6	4907.6	4907.6	4907.6	4907.6	4907.6	4907.6	4907.6	4907.6	4907.6
2.5°	4892.1	4849.0	4802.7	4737.9	4691.6	4620.7	4555.9	4528.2	4522.0	4525.1	4494.2
5°	4765.7	4704.0	4611.4	4478.8	4401.7	4284.5	4185.8	4133.3	4077.8	4087.1	4062.4
7.5°	4589.9	4522.0	4380.1	4225.9	4034.6	3868.1	3775.5	3646.0	3571.9	3516.4	3547.3
10°	4534.3	4417.1	4204.3	3991.4	3695.3	3476.3	3263.5	3115.4	3013.6	2914.9	2958.1
12.5°	4506.6	4389.4	4093.2	3778.6	3396.1	3063.0	2763.8	2581.8	2436.8	2350.5	2384.4
15°	4481.9	4336.9	3988.4	3544.2	3115.4	2677.4	2341.2	2100.6	1961.8	1878.5	1887.8
17.5°	4515.8	4309.2	3834.1	3315.9	2807.0	2338.1	1964.9	1715.0	1573.1	1520.7	1508.4
20°	4481.9	4278.3	3683.0	3087.7	2498.5	2014.2	1656.4	1449.8	1351.0	1307.9	1298.6
22.5°	4494.2	4204.3	3525.7	2834.7	2211.6	1742.8	1449.8	1292.4	1215.3	1193.7	1199.9
25°	4552.8	4161.1	3368.4	2557.1	1927.9	1542.3	1317.1	1196.8	1141.3	1119.7	1125.9
27.5°	4596.0	4198.1	3226.5	2294.9	1687.3	1363.4	1206.1	1125.9	1088.9	1073.4	1070.3
30°	4704.0	4219.7	3087.7	2060.5	1489.9	1246.2	1129.0	1064.2	1039.5	1030.2	1027.2
32.5°	4864.4	4259.8	2927.3	1844.6	1344.9	1135.1	1067.3	1011.7	1005.6	996.3	999.4
35°	5126.6	4398.6	2748.4	1659.5	1206.1	1061.1	1002.5	965.5	965.5	965.5	974.7
37.5°	5502.9	4592.9	2588.0	1483.7	1116.6	996.3	947.0	934.6	928.5	937.7	943.9
40°	5987.2	4827.4	2458.4	1344.9	1039.5	953.1	910.0	903.8	900.7	897.6	903.8
42.5°	6517.7	5126.6	2347.4	1236.9	984.0	906.9	876.0	869.9	857.5	863.7	872.9
45°	7045.2	5496.7	2248.7	1150.5	947.0	882.2	839.0	835.9	829.8	826.7	842.1
47.5°	7631.3	5860.7	2217.8	1098.1	919.2	845.2	814.3	811.2	792.7	789.7	802.0
50°	8087.8	6129.1	2251.7	1073.4	879.1	817.4	795.8	780.4	765.0	749.6	749.6
52.5°	8402.4	6314.1	2276.4	1054.9	857.5	780.4	752.6	746.5	731.0	715.6	709.5
55°	8686.2	6425.2	2282.6	1058.0	835.9	737.2	718.7	715.6	706.4	681.7	675.5
57.5°	8781.8	6378.9	2159.2	1030.2	823.6	709.5	684.8	690.9	678.6	657.0	653.9
60°	8772.5	6058.1	1878.5	993.2	795.8	678.6	647.8	666.3	666.3	641.6	638.5
62.5°	8238.9	5317.8	1536.1	922.3	765.0	647.8	613.8	641.6	650.8	635.4	632.3
65°	7131.5	4330.8	1283.2	851.3	718.7	613.8	579.9	610.7	626.2	620.0	616.9
67.5°	5900.8	3312.8	1067.3	758.8	660.1	567.6	539.8	561.4	570.6	573.7	576.8
70°	4170.4	2205.5	891.4	657.0	579.9	518.2	487.4	490.4	487.4	496.6	496.6
72.5°	2267.2	1270.8	724.9	558.3	499.7	450.3	428.8	413.3	413.3	410.2	410.2
73°	1940.2	1141.3	690.9	542.9	478.1	438.0	413.3	401.0	401.0	397.9	394.8
75°	1088.9	835.9	592.2	465.8	413.3	382.5	364.0	345.5	342.4	342.4	342.4
77.5°	715.6	650.8	471.9	373.2	333.1	305.4	299.2	280.7	280.7	280.7	277.6
80°	536.7	512.0	364.0	283.8	256.0	234.4	228.3	215.9	212.8	200.5	203.6
82.5°	357.8	404.1	265.3	200.5	172.7	160.4	160.4	157.3	148.1	132.6	132.6
85°	283.8	330.1	191.2	123.4	101.8	86.4	89.5	86.4	83.3	67.9	64.8
87.5°	52.4	132.6	55.5	33.9	24.7	15.4	15.4	9.3	6.2	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)