

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: P481034

Luminaire Tested: **IFLD-L-SA8B-827-U-SL4**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481034
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8B-827-U-SL4
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens
Light Source: (128) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

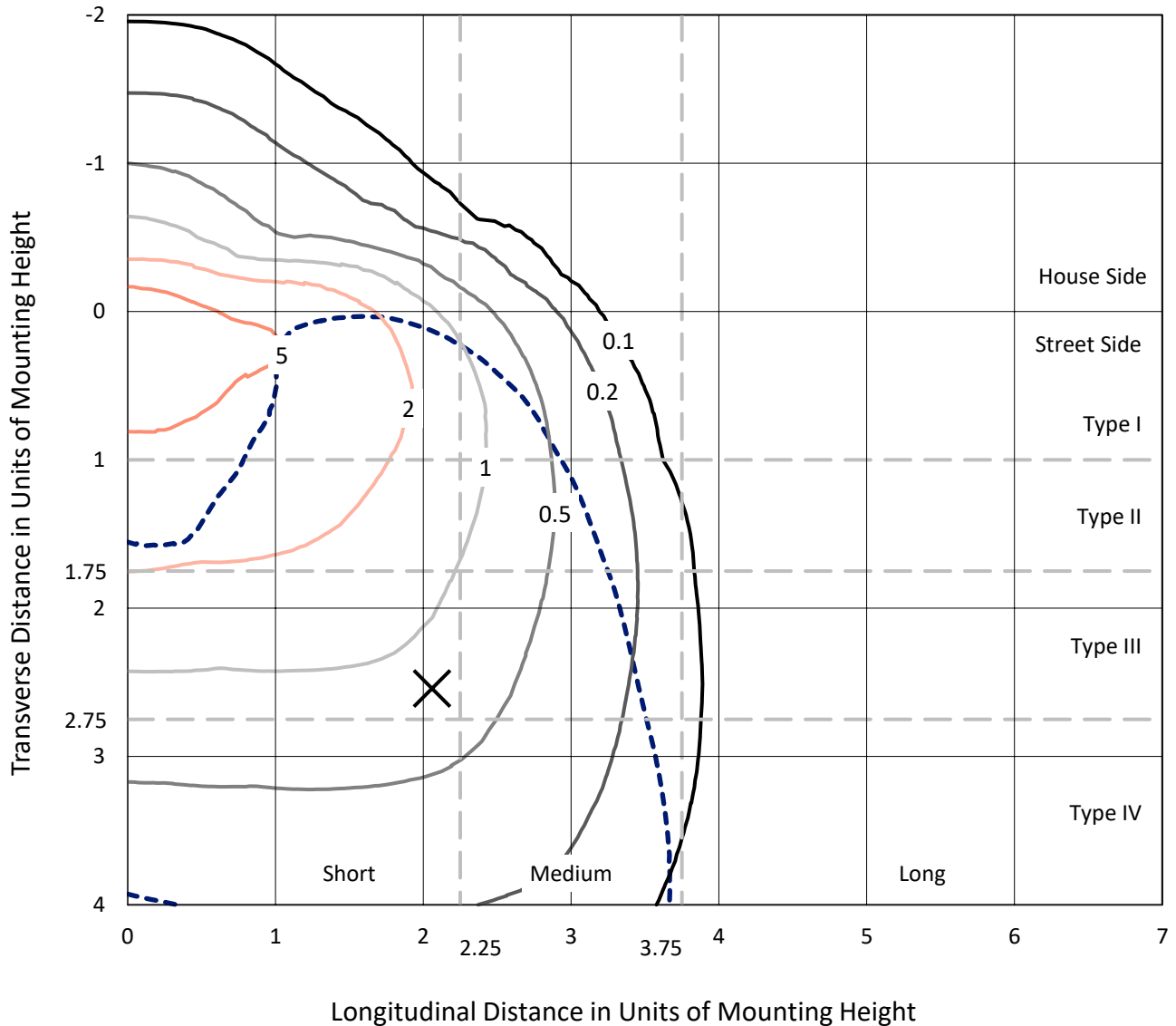
Lumens per Lamp: N/A
Luminaire Lumens: 28938.7 lumens
Efficiency: N/A
Efficacy: 90.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

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

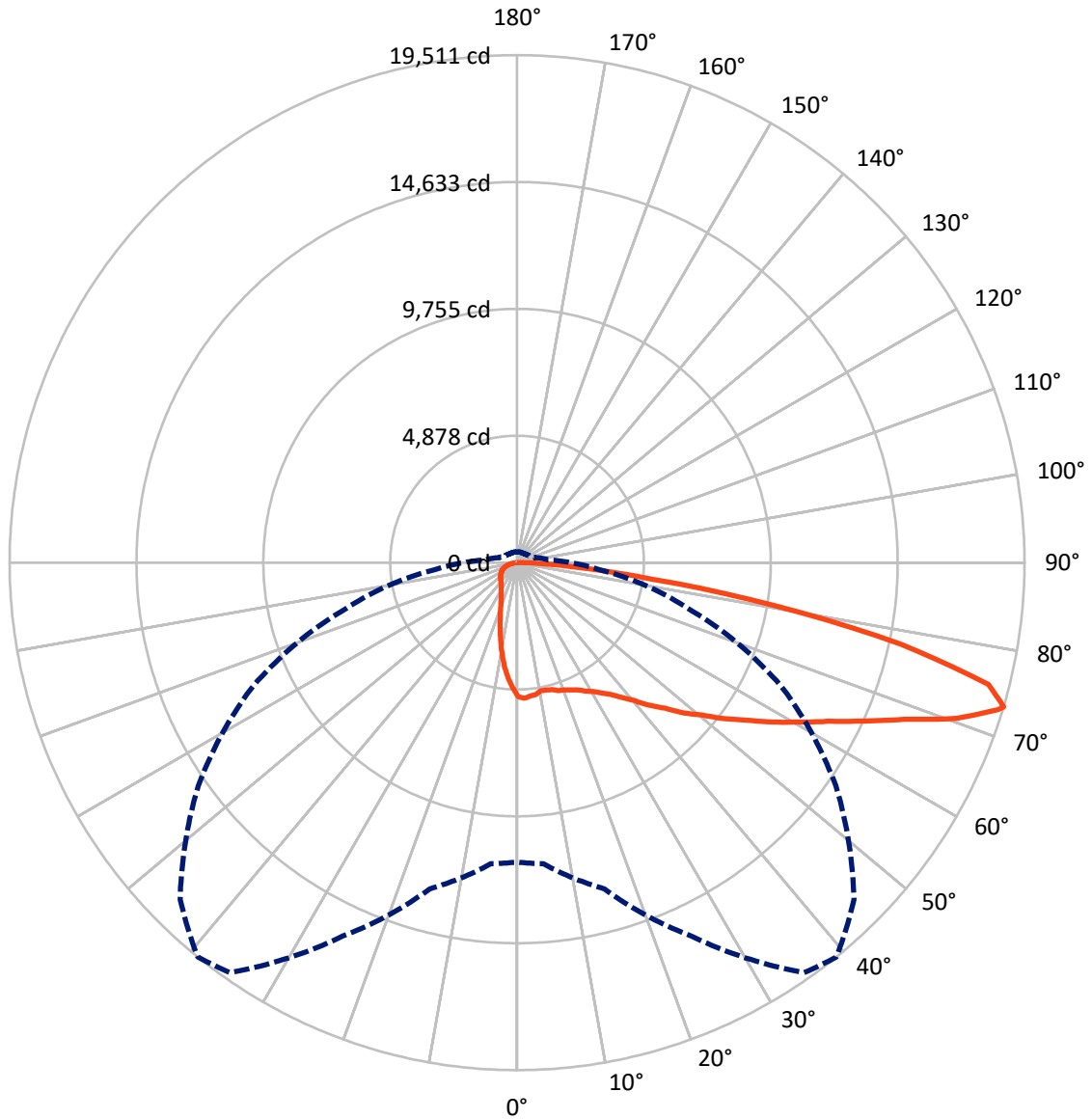
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.2 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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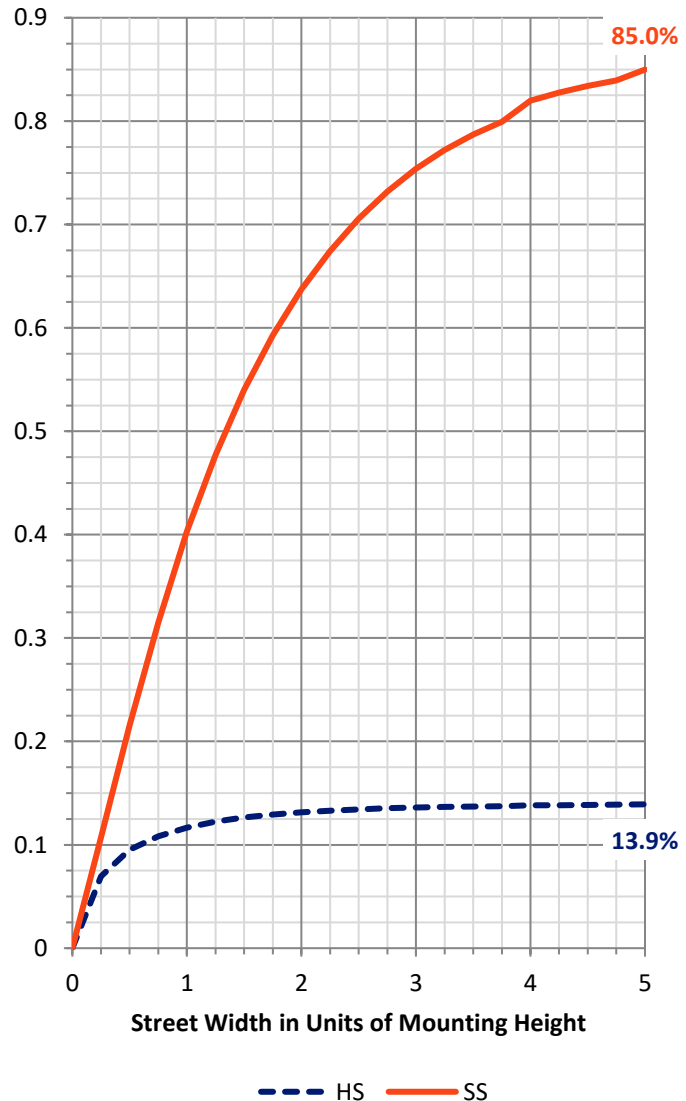
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4068.0	0.0	4068.0
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	24870.7	0.0	24870.7
	% Fixture	85.9	0.0	85.9
Total	Lumens	28938.7	0.0	28938.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	447.2	1.5
10°-20°	1136.8	3.9
20°-30°	1737.1	6.0
30°-40°	2532.8	8.8
40°-50°	3827.3	13.2
50°-60°	5542.1	19.2
60°-70°	7041.5	24.3
70°-80°	5708.2	19.7
80°-90°	965.8	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°	28938.7	100.0
0°-180°	28938.7	100.0

Coefficient of Utilization



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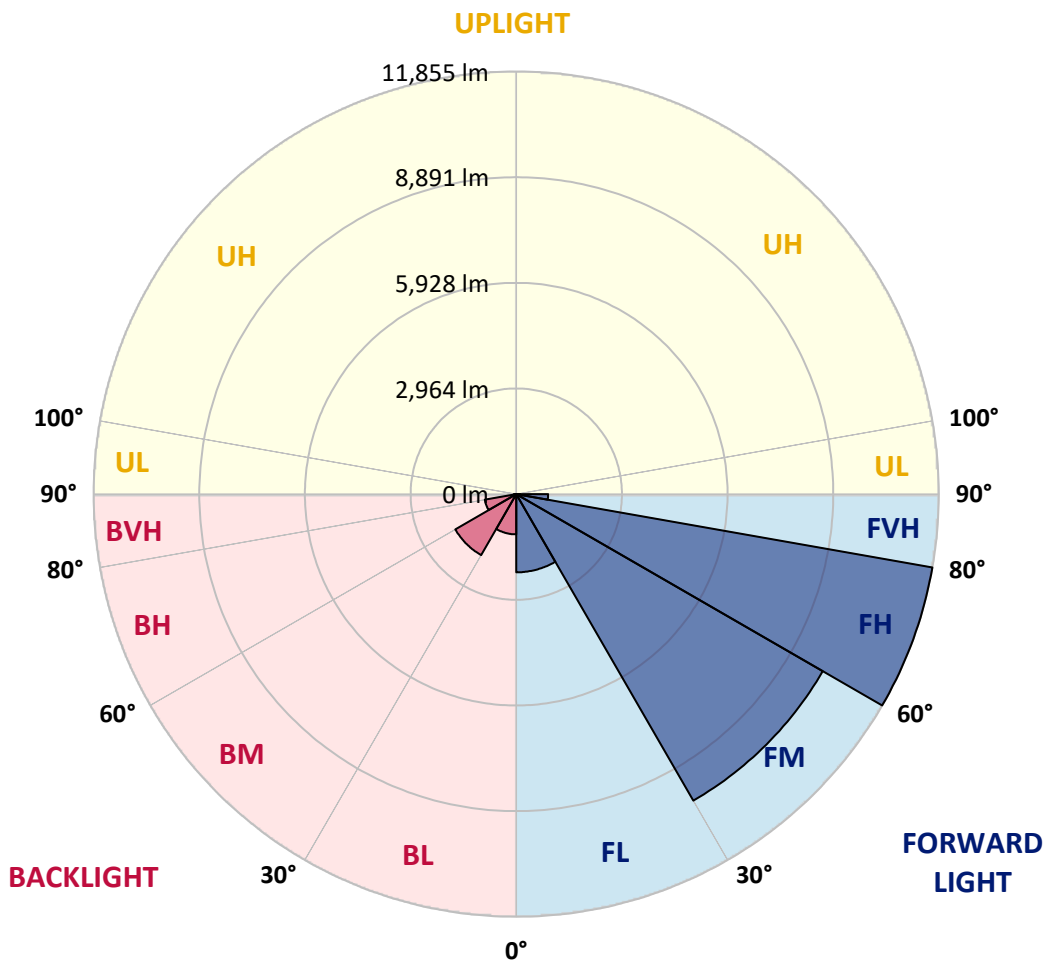
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2192.9	7.6			
FM (30°-60°)	9927.8	34.3			
FH (60°-80°)	11855.0	41.0			G4/12000
FVH (80°-90°)	894.9	3.1			G5
BL (0°-30°)	1128.1	3.9	B3/2500		
BM (30°-60°)	1974.3	6.8	B2/2500		
BH (60°-80°)	894.7	3.1	B2/1000		G2/1000
BVH (80°-90°)	70.9	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°	5151.3	5151.3	5151.3	5151.3	5151.3	5151.3	5151.3	5151.3	5151.3	5151.3	5151.3
2.5°	5274.3	5219.3	5229.0	5209.5	5229.0	5222.5	5212.8	5164.2	5212.8	5164.2	5151.3
5°	5203.1	5203.1	5235.4	5186.9	5193.4	5161.0	5193.4	5157.7	5125.4	5044.4	5021.8
7.5°	5180.4	5177.2	5180.4	5112.4	5144.8	5125.4	5093.0	5054.1	4989.4	4937.6	4863.1
10°	5025.0	5057.4	5021.8	5041.2	5067.1	5008.8	5005.6	4995.9	4966.7	4898.7	4853.4
12.5°	4940.8	4995.9	5015.3	4999.1	5021.8	5028.2	5008.8	4995.9	4960.2	4914.9	4785.4
15°	4976.4	4911.7	4966.7	5073.6	5050.9	5067.1	5070.3	5057.4	5041.2	4957.0	4872.8
17.5°	4986.1	4947.3	5063.8	5086.5	5115.6	5173.9	5135.1	5131.8	5070.3	5012.0	4889.0
20°	5008.8	4992.6	5086.5	5206.3	5209.5	5219.3	5238.7	5190.1	5157.7	5057.4	4869.6
22.5°	5093.0	5148.0	5235.4	5287.2	5316.4	5322.9	5322.9	5225.7	5190.1	5109.2	4960.2
25°	5345.5	5287.2	5410.3	5471.8	5429.7	5420.0	5397.3	5309.9	5271.1	5199.8	5002.3
27.5°	5530.1	5526.8	5598.1	5682.3	5568.9	5591.6	5510.7	5484.8	5397.3	5358.5	5076.8
30°	5782.6	5853.9	5850.6	5876.5	5727.6	5753.5	5649.9	5601.3	5552.7	5575.4	5297.0
32.5°	6106.4	6080.5	6122.6	6103.2	5954.2	5976.9	5853.9	5779.4	5795.6	5863.6	5598.1
35°	6313.6	6287.7	6303.9	6303.9	6258.6	6232.7	6180.9	6083.7	6161.4	6287.7	5934.8
37.5°	6537.0	6569.4	6663.3	6643.9	6585.6	6585.6	6579.1	6511.1	6611.5	6922.3	6472.3
40°	6734.5	6821.9	6880.2	6919.1	6987.1	6987.1	7042.1	7003.3	7184.6	7683.2	7129.5
42.5°	6941.7	6945.0	7262.3	7291.4	7443.6	7508.3	7550.4	7582.8	7922.8	8479.7	7832.1
45°	7207.2	7223.4	7501.9	7725.3	7961.6	7984.3	8142.9	8249.8	8667.5	9350.6	8596.2
47.5°	7556.9	7537.5	7835.4	8191.5	8486.1	8641.6	8832.6	8949.1	9464.0	10296.1	9431.6
50°	8016.7	7958.4	8130.0	8690.1	9036.6	9208.2	9548.1	9742.4	10344.6	11199.4	10004.7
52.5°	8576.8	8479.7	8615.7	9227.6	9616.1	9962.6	10286.3	10503.3	11131.4	11898.7	10428.8
55°	9169.3	8968.6	9007.4	9797.4	10357.6	10684.6	11128.2	11354.8	11995.9	12526.9	10852.9
57.5°	9755.3	9629.1	9551.4	10344.6	11241.5	11555.5	11963.5	12258.1	12802.1	13083.8	11212.3
60°	10247.5	10215.1	10088.8	11192.9	12177.2	12445.9	12873.3	13054.6	13465.8	13598.6	11218.8
62.5°	10652.2	10542.1	10742.9	11876.1	13129.1	13433.4	13902.9	13919.1	14210.5	13919.1	10888.6
65°	10969.5	10976.0	11296.5	12701.7	14229.9	14680.0	15058.8	15016.7	14828.9	13728.1	10108.3
67.5°	11257.7	11380.7	11850.2	13608.3	15644.8	16069.0	16489.9	15933.0	14997.3	12834.5	8583.3
70°	11484.3	11607.3	12598.1	14712.3	17312.3	17933.9	18027.8	16295.6	14223.4	10872.4	6475.5
72.5°	11458.4	11681.8	13022.2	15593.0	18791.9	19329.4	18571.7	15275.7	11850.2	7579.6	3778.5
73°	11513.4	11623.5	12986.6	15839.1	19242.0	19510.7	18319.2	14955.2	11176.7	6799.3	3195.7
75°	10451.5	10823.8	12342.3	15437.6	18759.5	18711.0	16868.7	12462.1	7945.4	3571.2	1547.6
77.5°	7731.8	7968.1	9726.2	12695.2	15398.8	15087.9	12724.4	7964.9	3772.0	1324.2	835.3
80°	3778.5	3963.0	5154.5	7330.3	10069.4	10095.3	7896.9	4144.3	1615.6	747.9	569.8
82.5°	1887.6	1997.7	2476.9	3221.6	4953.8	5190.1	4005.1	2357.1	1000.5	424.1	323.8
85°	1233.6	1311.3	1525.0	1576.8	2101.3	2217.9	1864.9	1839.0	650.8	229.9	262.3
87.5°	819.2	832.1	935.7	796.5	841.8	809.4	900.1	1159.1	191.0	97.1	71.2
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°	5151.3	5151.3	5151.3	5151.3	5151.3	5151.3	5151.3	5151.3	5151.3	5151.3	5151.3
2.5°	5135.1	5089.7	5041.2	4973.2	4924.6	4850.2	4782.2	4753.0	4746.5	4749.8	4717.4
5°	5002.3	4937.6	4840.4	4701.2	4620.3	4497.2	4393.6	4338.6	4280.3	4290.0	4264.1
7.5°	4817.8	4746.5	4597.6	4435.7	4235.0	4060.1	3963.0	3827.0	3749.3	3691.0	3723.4
10°	4759.5	4636.5	4413.1	4189.7	3878.8	3648.9	3425.5	3270.1	3163.3	3059.7	3105.0
12.5°	4730.4	4607.3	4296.5	3966.2	3564.8	3215.1	2901.0	2710.0	2557.8	2467.2	2502.8
15°	4704.5	4552.3	4186.4	3720.2	3270.1	2810.4	2457.5	2204.9	2059.2	1971.8	1981.5
17.5°	4740.1	4523.1	4024.5	3480.6	2946.4	2454.2	2062.4	1800.2	1651.3	1596.2	1583.3
20°	4704.5	4490.8	3865.9	3241.0	2622.6	2114.3	1738.7	1521.7	1418.1	1372.8	1363.1
22.5°	4717.4	4413.1	3700.8	2975.5	2321.5	1829.3	1521.7	1356.6	1275.7	1253.0	1259.5
25°	4778.9	4367.7	3535.6	2684.1	2023.6	1618.9	1382.5	1256.2	1198.0	1175.3	1181.8
27.5°	4824.3	4406.6	3386.7	2408.9	1771.1	1431.1	1266.0	1181.8	1142.9	1126.7	1123.5
30°	4937.6	4429.2	3241.0	2162.8	1563.8	1308.1	1185.0	1117.0	1091.1	1081.4	1078.2
32.5°	5105.9	4471.3	3072.6	1936.2	1411.7	1191.5	1120.3	1062.0	1055.5	1045.8	1049.0
35°	5381.1	4617.0	2884.8	1741.9	1266.0	1113.8	1052.3	1013.4	1013.4	1013.4	1023.1
37.5°	5776.2	4821.0	2716.5	1557.4	1172.1	1045.8	994.0	981.0	974.6	984.3	990.8
40°	6284.5	5067.1	2580.5	1411.7	1091.1	1000.5	955.1	948.7	945.4	942.2	948.7
42.5°	6841.4	5381.1	2463.9	1298.3	1032.8	951.9	919.5	913.0	900.1	906.6	916.3
45°	7395.0	5769.7	2360.3	1207.7	994.0	926.0	880.7	877.4	871.0	867.7	883.9
47.5°	8010.2	6151.7	2327.9	1152.6	964.9	887.1	854.8	851.5	832.1	828.9	841.8
50°	8489.4	6433.4	2363.6	1126.7	922.8	858.0	835.3	819.2	803.0	786.8	786.8
52.5°	8819.6	6627.7	2389.5	1107.3	900.1	819.2	790.0	783.5	767.3	751.2	744.7
55°	9117.5	6744.2	2395.9	1110.5	877.4	773.8	754.4	751.2	741.4	715.5	709.1
57.5°	9217.9	6695.7	2266.4	1081.4	864.5	744.7	718.8	725.3	712.3	689.6	686.4
60°	9208.2	6358.9	1971.8	1042.6	835.3	712.3	679.9	699.4	699.4	673.5	670.2
62.5°	8648.0	5581.9	1612.4	968.1	803.0	679.9	644.3	673.5	683.2	667.0	663.7
65°	7485.7	4545.8	1346.9	893.6	754.4	644.3	608.7	641.1	657.3	650.8	647.6
67.5°	6193.8	3477.3	1120.3	796.5	692.9	595.7	566.6	589.3	599.0	602.2	605.5
70°	4377.4	2315.0	935.7	689.6	608.7	543.9	511.6	514.8	511.6	521.3	521.3
72.5°	2379.7	1334.0	760.9	586.0	524.5	472.7	450.0	433.9	433.9	430.6	430.6
73°	2036.5	1198.0	725.3	569.8	501.9	459.8	433.9	420.9	420.9	417.7	414.4
75°	1142.9	877.4	621.6	488.9	433.9	401.5	382.1	362.6	359.4	359.4	359.4
77.5°	751.2	683.2	495.4	391.8	349.7	320.5	314.1	294.6	294.6	294.6	291.4
80°	563.4	537.5	382.1	297.9	268.7	246.1	239.6	226.6	223.4	210.5	213.7
82.5°	375.6	424.1	278.4	210.5	181.3	168.4	168.4	165.1	155.4	139.2	139.2
85°	297.9	346.4	200.7	129.5	106.8	90.7	93.9	90.7	87.4	71.2	68.0
87.5°	55.0	139.2	58.3	35.6	25.9	16.2	16.2	9.7	6.5	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)