

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: P479974

Luminaire Tested: **IFLD-M-SA4E-722-U-SL2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479974
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4E-722-U-SL2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens
Light Source: (64) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

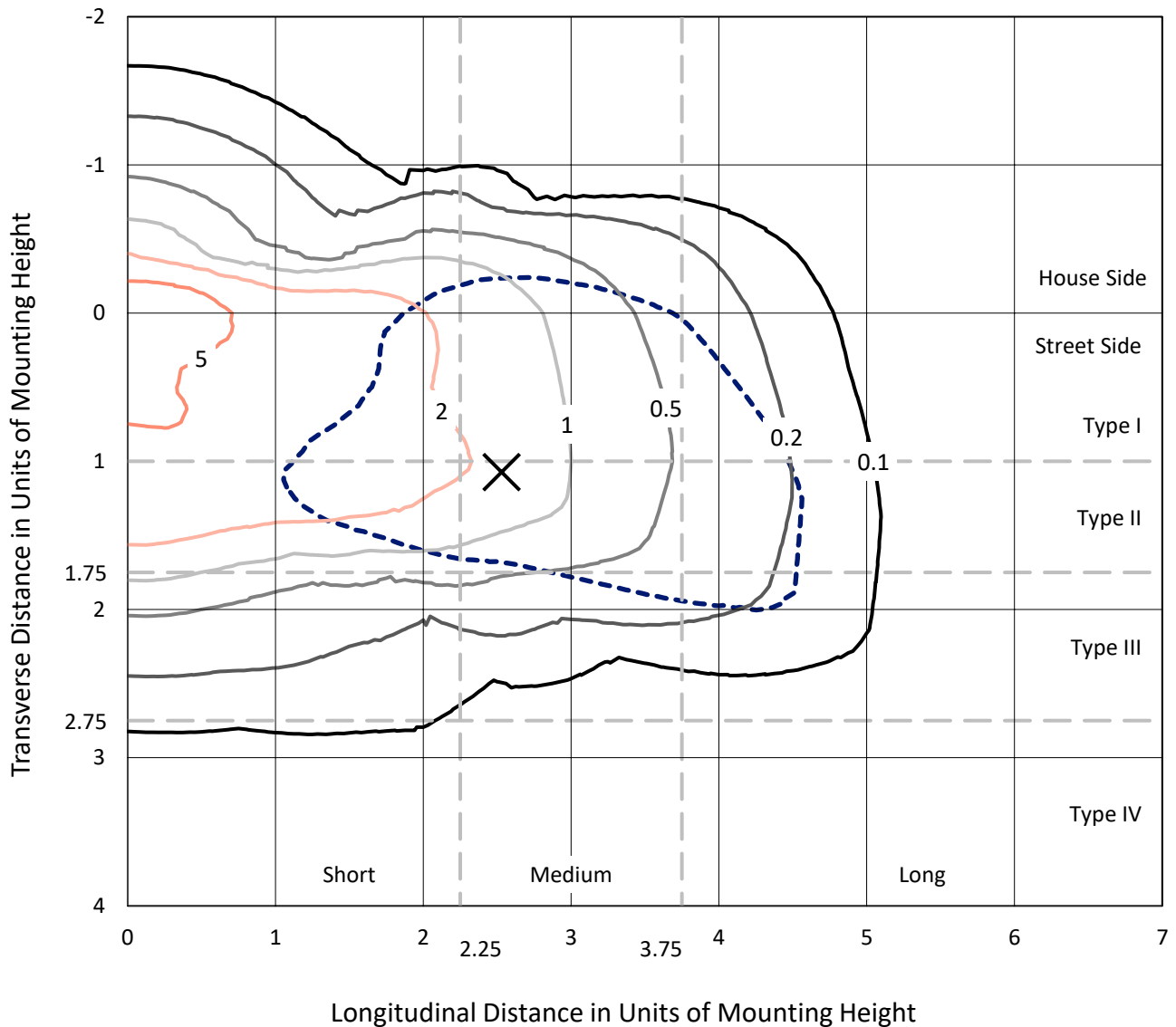
Lumens per Lamp: N/A
Luminaire Lumens: 26589.8 lumens
Efficiency: N/A
Efficacy: 84.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

Input Watts (W): 314.8
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

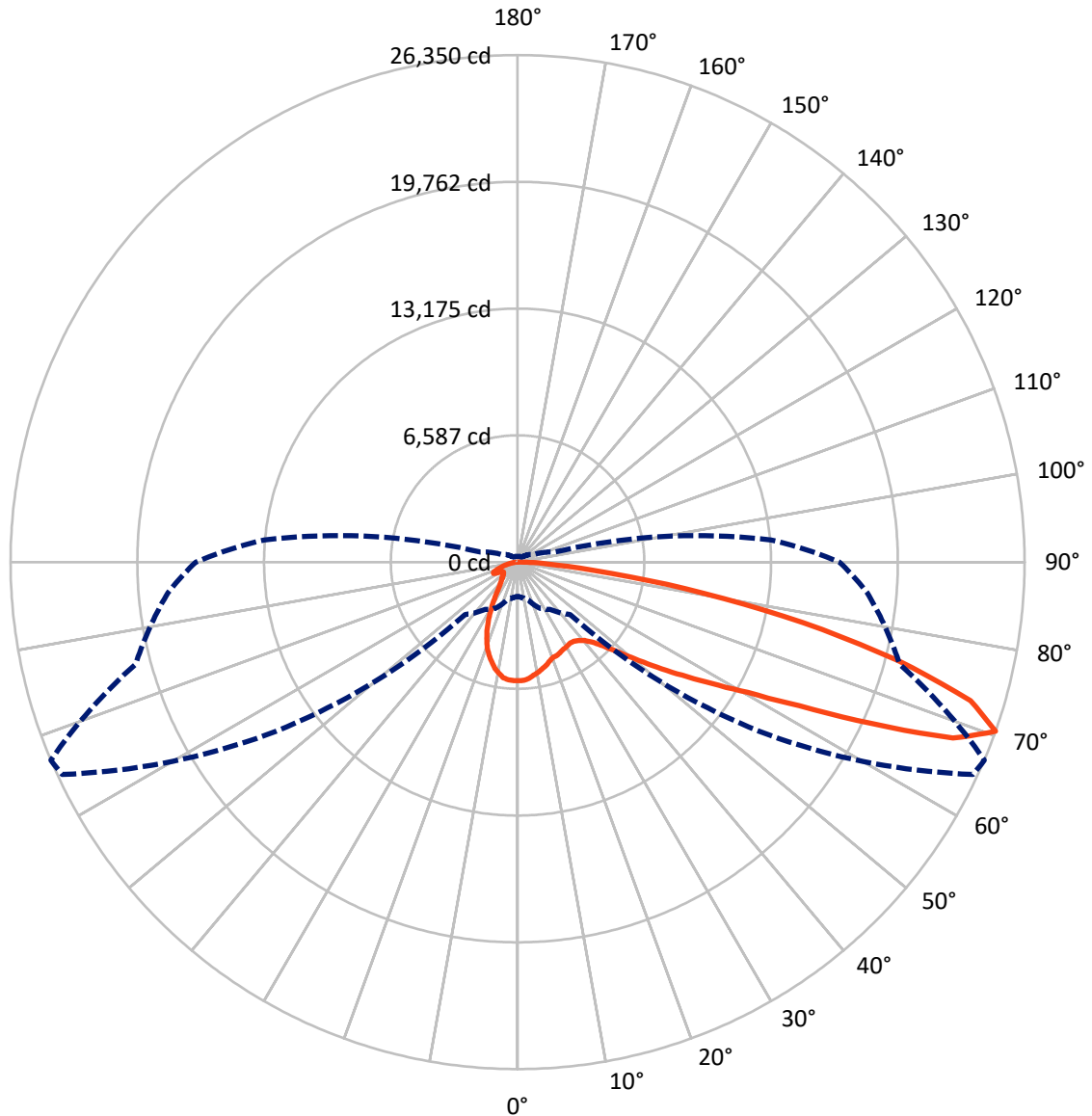
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.9 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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

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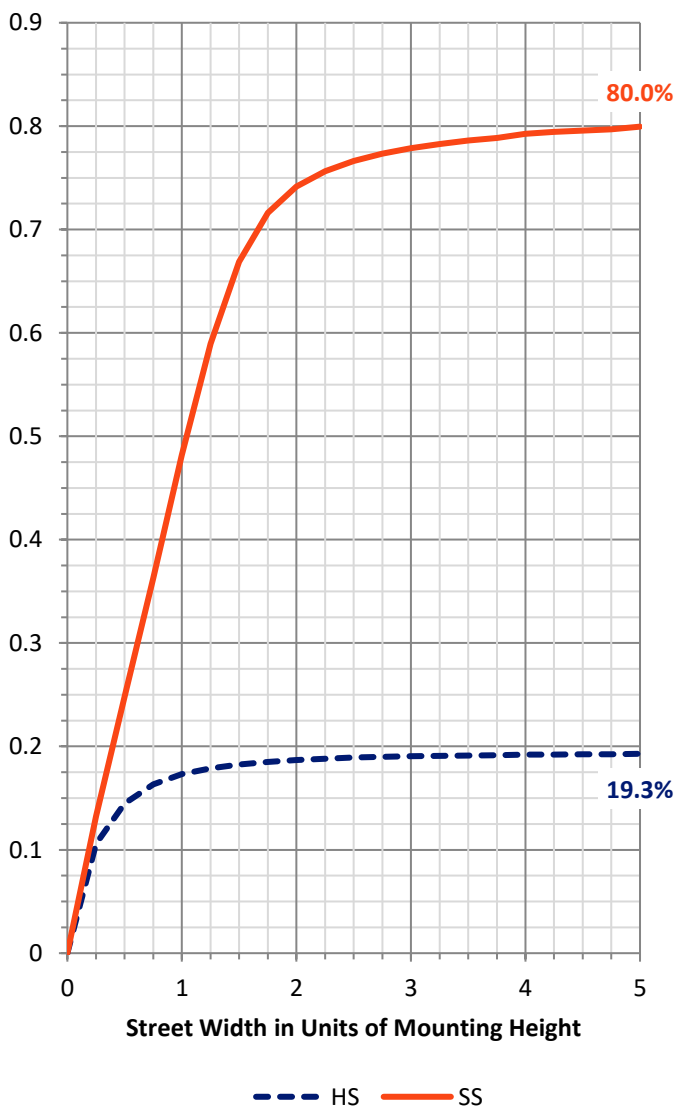
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5178.6	0.0	5178.6
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	21411.2	0.0	21411.2
	% Fixture	80.5	0.0	80.5
Total	Lumens	26589.8	0.0	26589.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	537.1	2.0
10°-20°	1286.3	4.8
20°-30°	1737.0	6.5
30°-40°	2324.3	8.7
40°-50°	3417.8	12.9
50°-60°	5327.5	20.0
60°-70°	6562.6	24.7
70°-80°	4637.1	17.4
80°-90°	760.0	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°	26589.8	100.0
0°-180°	26589.8	100.0

Coefficient of Utilization

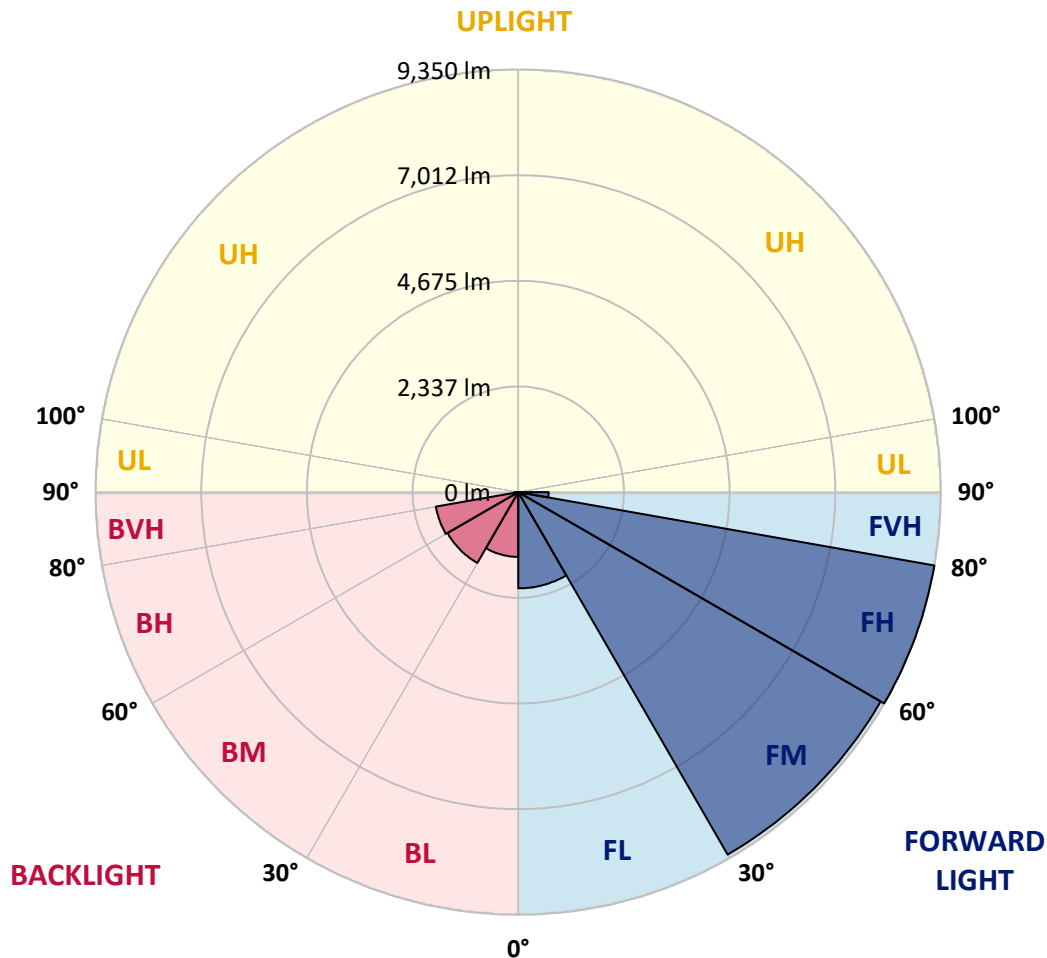


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2128.3	8.0			
FM (30°-60°)	9260.7	34.8			
FH (60°-80°)	9349.9	35.2			G4/12000
FVH (80°-90°)	672.4	2.5			G4/750
BL (0°-30°)	1432.1	5.4	B3/2500		
BM (30°-60°)	1809.0	6.8	B2/2500		
BH (60°-80°)	1849.9	7.0	B3/2500		G3/2500
BVH (80°-90°)	87.7	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	6155.5	6155.5	6155.5	6155.5	6155.5	6155.5	6155.5	6155.5	6155.5	6155.5	6155.5
2.5°	5731.6	5796.3	5819.9	5855.2	5946.5	6014.2	6055.4	6102.5	6158.4	6205.5	6234.9
5°	5331.2	5366.5	5422.5	5460.7	5575.5	5758.1	5881.7	6081.9	6076.0	6149.6	6261.4
7.5°	4942.6	4977.9	5004.4	5081.0	5245.8	5410.7	5637.4	5961.2	5937.6	6108.4	6282.0
10°	4701.2	4674.7	4683.6	4813.1	4942.6	5128.1	5413.6	5743.3	5828.7	6093.6	6340.9
12.5°	4474.6	4445.1	4515.8	4598.2	4757.2	4925.0	5266.4	5563.8	5693.3	6040.7	6367.4
15°	4333.3	4312.7	4401.0	4436.3	4624.7	4824.9	5066.3	5428.3	5569.6	5975.9	6326.2
17.5°	4253.8	4271.4	4303.8	4380.4	4501.1	4671.8	4936.7	5337.1	5398.9	5896.4	6317.4
20°	4268.5	4289.1	4292.0	4324.4	4406.9	4539.3	4810.2	5239.9	5281.2	5881.7	6340.9
22.5°	4386.2	4356.8	4368.6	4348.0	4371.5	4474.6	4713.0	5110.4	5269.4	5758.1	6290.9
25°	4562.9	4521.7	4515.8	4445.1	4401.0	4430.4	4695.3	5078.0	5181.1	5719.8	6287.9
27.5°	4874.9	4813.1	4813.1	4707.1	4527.5	4480.4	4645.3	5025.0	5116.3	5684.5	6220.2
30°	5175.2	5175.2	5178.1	5028.0	4827.8	4595.3	4665.9	5004.4	5063.3	5578.5	6129.0
32.5°	5540.2	5531.4	5516.7	5443.1	5134.0	4786.6	4766.0	4977.9	5007.4	5543.2	6102.5
35°	5896.4	5872.9	5987.7	5922.9	5607.9	5160.5	4869.0	4989.7	5054.5	5490.2	6020.0
37.5°	6164.3	6179.0	6417.5	6458.7	6187.8	5584.4	5160.5	5107.5	5169.3	5566.7	6020.0
40°	6511.7	6570.5	6794.3	6932.6	6767.8	6143.7	5622.6	5304.7	5348.9	5737.4	6149.6
42.5°	6967.9	7018.0	7303.5	7483.1	7436.0	6856.1	6078.9	5716.8	5681.5	6023.0	6343.9
45°	7571.4	7580.3	7868.7	8116.0	8213.2	7600.9	6803.1	6237.9	6208.5	6514.6	6700.1
47.5°	8289.7	8280.9	8460.5	8725.4	8987.4	8489.9	7636.2	7029.8	6923.8	7218.2	7291.8
50°	8984.4	8946.2	8987.4	9325.9	9829.3	9602.6	8648.9	7998.3	7892.3	8054.2	8180.8
52.5°	9367.1	9414.2	9302.4	9749.8	10724.2	10918.5	9991.2	9155.2	9063.9	9143.4	9364.2
55°	9099.3	9196.4	9122.8	9546.7	11115.7	12522.9	11728.1	10494.6	10376.9	10347.4	10709.5
57.5°	7960.0	8136.6	8151.4	8822.5	10980.3	13765.2	14171.4	12075.4	11898.8	11598.5	11972.4
60°	6111.3	6287.9	6423.3	7218.2	9820.5	14507.0	17003.3	14324.5	13741.6	12964.4	13188.2
62.5°	4283.2	4403.9	4539.3	5028.0	7571.4	14071.3	19452.6	17492.0	16417.5	14404.0	14683.6
65°	3120.4	3214.6	3353.0	3641.5	4651.2	11642.7	20588.9	21254.2	20235.6	16235.0	16199.7
67.5°	2349.1	2408.0	2590.5	3052.7	3223.4	7191.7	19411.3	25228.3	24404.0	18269.2	17418.4
70°	1778.0	1828.1	1998.8	2631.7	3011.5	3856.4	15313.6	26114.4	26349.9	20550.6	18236.8
72.5°	1224.6	1280.5	1471.9	2193.1	2867.3	3058.6	9611.5	23724.0	24616.0	21489.7	17359.5
75°	750.7	788.9	900.8	1663.2	2846.6	2990.9	5290.0	19440.8	20385.7	19855.9	15187.0
77.5°	529.9	526.9	547.5	974.4	2466.9	3008.6	3261.7	14245.0	15163.5	14633.6	10306.2
80°	385.6	388.6	409.2	582.9	1675.0	3058.6	2569.9	9540.8	9814.6	7630.3	4065.4
82.5°	232.6	244.3	294.4	394.5	1006.8	2761.3	2375.6	5301.8	4960.3	2449.2	1118.6
85°	123.6	123.6	173.7	250.2	535.8	2060.7	2287.3	2522.8	2113.6	759.5	415.1
87.5°	29.4	29.4	50.0	100.1	214.9	986.2	1560.2	1003.8	803.7	256.1	170.7
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°	6155.5	6155.5	6155.5	6155.5	6155.5	6155.5	6155.5	6155.5	6155.5	6155.5	6155.5
2.5°	6223.2	6187.8	6232.0	6143.7	6073.0	6076.0	5967.1	5961.2	5946.5	5869.9	5896.4
5°	6293.8	6264.4	6214.3	6117.2	5961.2	5805.2	5711.0	5590.3	5540.2	5513.7	5525.5
7.5°	6361.5	6308.5	6164.3	6028.9	5787.5	5493.1	5322.4	5160.5	4954.4	4930.8	4889.6
10°	6379.2	6267.3	6081.9	5793.4	5472.5	5145.7	4757.2	4456.9	4297.9	4174.3	4127.2
12.5°	6352.7	6305.6	5949.4	5578.5	5092.8	4580.5	4127.2	3703.3	3408.9	3255.8	3214.6
15°	6349.8	6267.3	5802.2	5251.7	4630.6	3962.3	3317.7	2808.4	2499.3	2372.7	2372.7
17.5°	6352.7	6155.5	5628.5	4922.0	4086.0	3182.2	2472.8	2054.8	1884.0	1866.4	1881.1
20°	6293.8	6073.0	5446.0	4533.4	3403.0	2390.4	1795.7	1625.0	1625.0	1648.5	1657.4
22.5°	6240.8	5949.4	5157.5	4053.6	2708.3	1730.9	1460.1	1410.1	1466.0	1507.2	1524.9
25°	6167.2	5846.4	4863.1	3556.1	2060.7	1395.4	1268.8	1280.5	1333.5	1407.1	1401.2
27.5°	6061.3	5666.8	4512.8	2979.1	1533.7	1204.0	1171.6	1177.5	1233.4	1265.8	1259.9
30°	5940.6	5484.3	4189.0	2405.1	1215.8	1103.9	1101.0	1115.7	1124.5	1142.2	1139.2
32.5°	5787.5	5242.9	3844.6	1869.3	1095.1	1048.0	1036.2	1027.4	1036.2	1033.3	1024.4
35°	5678.6	5113.4	3494.3	1424.8	1027.4	997.9	989.1	974.4	962.6	945.0	942.0
37.5°	5649.1	4983.8	3126.3	1162.8	974.4	959.7	930.2	903.7	889.0	880.2	874.3
40°	5631.5	4898.5	2767.2	1021.5	930.2	915.5	880.2	844.9	830.1	821.3	824.3
42.5°	5693.3	4851.4	2402.1	950.8	892.0	865.5	827.2	786.0	783.0	777.2	786.0
45°	5911.1	4910.2	2063.6	900.8	853.7	809.5	759.5	738.9	735.9	730.1	735.9
47.5°	6405.7	5057.4	1775.1	868.4	812.5	774.2	721.2	691.8	688.8	685.9	685.9
50°	7088.6	5510.8	1533.7	830.1	786.0	733.0	683.0	650.6	644.7	632.9	632.9
52.5°	8160.2	6273.2	1389.5	809.5	738.9	694.7	641.7	606.4	591.7	579.9	579.9
55°	9367.1	7218.2	1363.0	774.2	688.8	647.6	600.5	565.2	550.5	535.8	529.9
57.5°	10741.9	8469.3	1551.4	750.7	653.5	600.5	547.5	515.2	503.4	488.7	482.8
60°	12022.4	9717.4	2137.2	715.3	621.1	556.4	503.4	471.0	456.3	441.6	441.6
62.5°	13503.2	11262.9	3129.2	715.3	591.7	509.3	456.3	432.7	423.9	409.2	406.2
65°	15254.7	12861.4	3853.4	759.5	582.9	468.1	412.1	388.6	379.7	370.9	368.0
67.5°	16588.3	13779.9	3314.7	877.2	621.1	432.7	368.0	353.3	347.4	338.5	332.6
70°	16729.6	13220.6	1998.8	947.9	659.4	397.4	329.7	315.0	315.0	306.2	300.3
72.5°	15460.8	11731.0	1345.3	844.9	597.6	356.2	291.4	279.7	273.8	267.9	264.9
75°	12938.0	9950.0	1062.7	674.1	459.2	294.4	253.2	241.4	232.6	229.6	223.7
77.5°	8690.1	6467.5	786.0	526.9	338.5	238.4	212.0	200.2	191.3	188.4	179.6
80°	3338.3	2464.0	506.3	382.7	238.4	188.4	167.8	156.0	150.1	141.3	135.4
82.5°	983.2	797.8	282.6	235.5	153.1	129.5	120.7	111.9	103.0	94.2	91.3
85°	406.2	365.0	173.7	123.6	94.2	76.5	70.7	61.8	53.0	47.1	41.2
87.5°	188.4	156.0	79.5	47.1	32.4	17.7	8.8	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)