

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: P480512

Luminaire Tested: **IFLD-S-SA6B-740-U-SL3**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480512
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6B-740-U-SL3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens
Light Source: (96) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

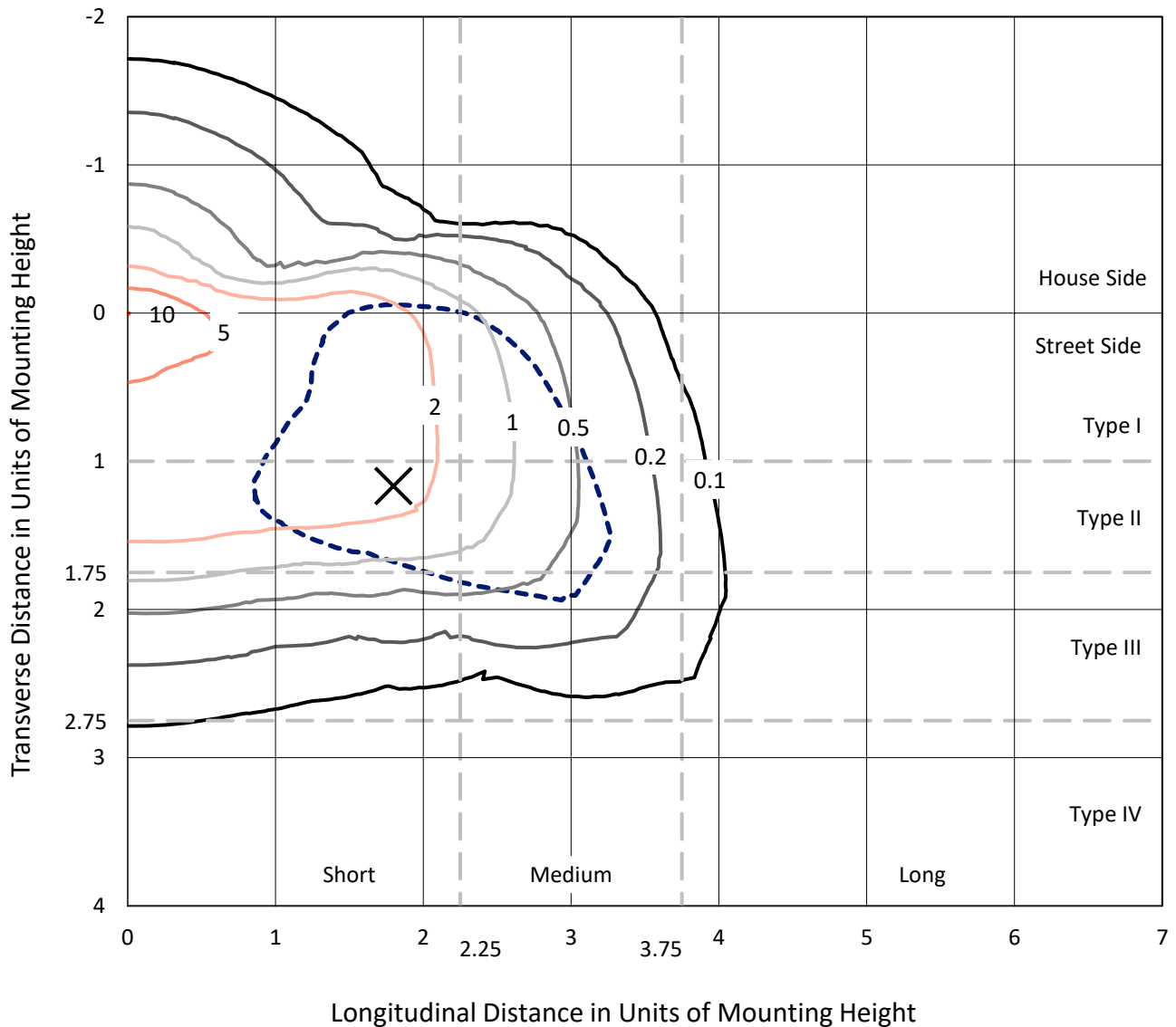
Lumens per Lamp: N/A
Luminaire Lumens: 32936.6 lumens
Efficiency: N/A
Efficacy: 134.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 244.9
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

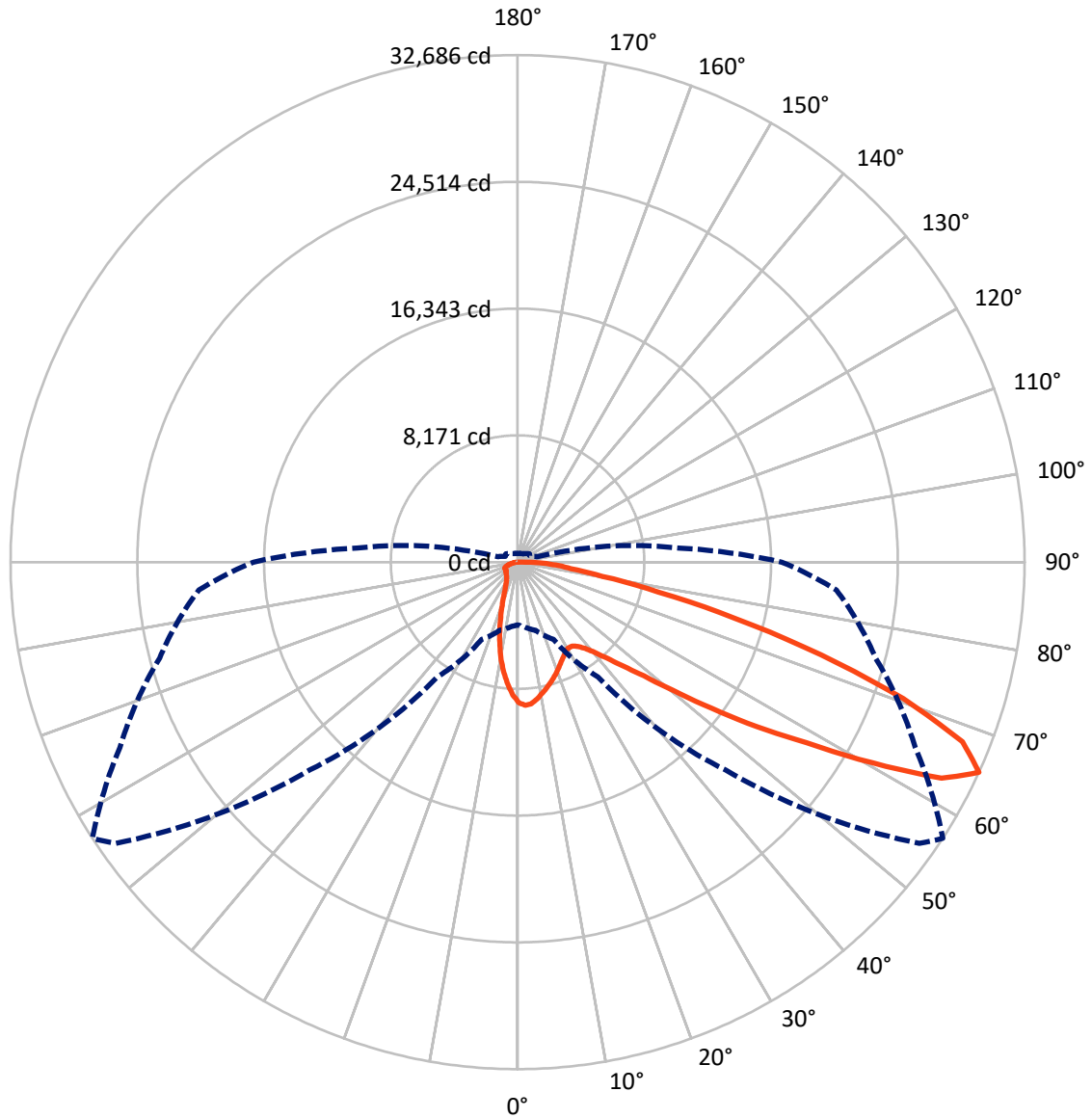
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 10.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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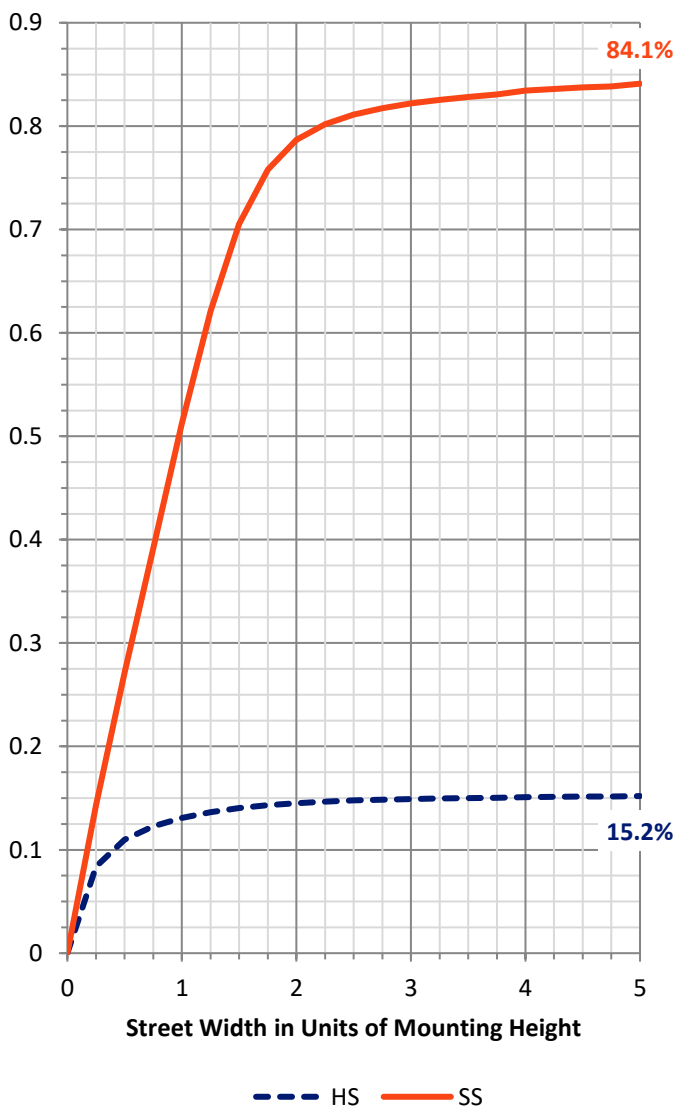
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5051.1	0.0	5051.1
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	27885.5	0.0	27885.5
	% Fixture	84.7	0.0	84.7
Total	Lumens	32936.6	0.0	32936.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	758.5	2.3
10°-20°	1632.3	5.0
20°-30°	2110.5	6.4
30°-40°	2840.0	8.6
40°-50°	4528.5	13.7
50°-60°	7998.4	24.3
60°-70°	8799.3	26.7
70°-80°	3680.9	11.2
80°-90°	588.3	1.8
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°	32936.6	100.0
0°-180°	32936.6	100.0

Coefficient of Utilization



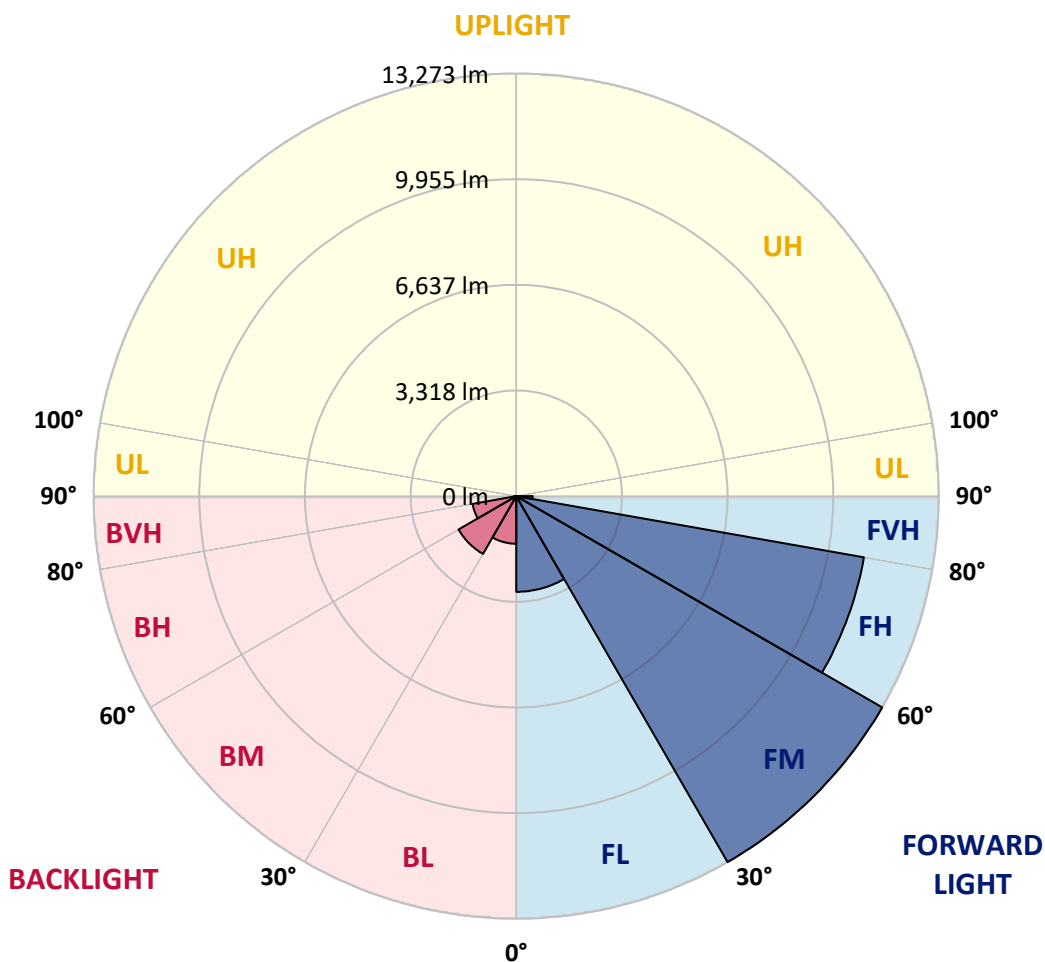
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3005.3	9.1			
FM (30°-60°)	13273.4	40.3			
FH (60°-80°)	11087.4	33.7			G4/12000
FVH (80°-90°)	519.3	1.6			G4/750
BL (0°-30°)	1495.9	4.5	B3/2500		
BM (30°-60°)	2093.5	6.4	B2/2500		
BH (60°-80°)	1392.8	4.2	B3/2500		G3/2500
BVH (80°-90°)	69.0	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-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	9057.1	9057.1	9057.1	9057.1	9057.1	9057.1	9057.1	9057.1	9057.1	9057.1	9057.1
2.5°	9301.7	9316.5	9316.5	9346.2	9246.1	9294.3	9286.9	9242.4	9257.2	9179.4	9101.6
5°	9038.6	9027.4	9086.7	9094.2	9172.0	9194.2	9212.7	9183.1	9190.5	9020.0	8945.9
7.5°	8364.1	8360.4	8460.5	8545.7	8708.7	8860.7	8960.7	8931.1	8971.9	8864.4	8690.2
10°	7563.6	7648.9	7752.6	7837.9	8138.0	8330.7	8590.2	8616.1	8771.7	8745.8	8430.8
12.5°	6963.3	7000.3	7078.2	7322.8	7597.0	7915.7	8286.3	8319.6	8471.6	8545.7	8271.5
15°	6470.4	6503.8	6603.8	6785.4	7093.0	7471.0	7941.6	8026.9	8330.7	8356.7	8063.9
17.5°	6110.9	6136.9	6203.6	6385.2	6637.2	7122.6	7567.3	7719.3	8119.5	8245.5	7849.0
20°	5970.1	5914.5	5951.6	6066.5	6318.5	6692.8	7267.2	7400.6	7912.0	8160.3	7645.2
22.5°	5907.1	5858.9	5881.2	5873.8	6073.9	6340.7	6944.8	7085.6	7715.6	8060.2	7463.6
25°	5955.3	5955.3	5933.1	5914.5	5936.8	6110.9	6596.4	6815.1	7452.5	7975.0	7278.3
27.5°	6214.7	6114.7	6125.8	6047.9	6025.7	6025.7	6440.8	6570.5	7367.2	7926.8	7126.3
30°	6381.5	6429.6	6433.4	6318.5	6203.6	5996.1	6296.2	6422.2	7296.8	7986.1	7037.4
32.5°	6807.6	6785.4	6722.4	6700.2	6529.7	6296.2	6366.6	6451.9	7256.1	8119.5	7063.3
35°	7233.8	7222.7	7226.4	7215.3	7037.4	6692.8	6555.6	6670.5	7330.2	8353.0	7152.3
37.5°	7674.8	7704.5	7830.5	7830.5	7641.5	7267.2	7085.6	7052.2	7600.7	8734.7	7363.5
40°	8115.8	8189.9	8349.3	8601.3	8334.5	7986.1	7693.3	7641.5	7926.8	9246.1	7871.2
42.5°	8538.3	8660.6	8975.6	9349.9	9260.9	8912.6	8523.5	8464.2	8597.6	10005.8	8579.0
45°	9079.3	9183.1	9679.7	10254.1	10376.4	10068.8	9613.0	9564.8	9557.4	11117.5	9553.7
47.5°	9902.0	10013.2	10509.8	11087.9	11465.9	11514.1	11002.7	10950.8	10772.9	12618.4	10980.4
50°	10932.3	11113.8	11532.6	12207.1	12755.5	13270.6	13126.1	12974.2	12625.8	14363.9	12788.9
52.5°	11684.5	11906.9	12473.9	13337.4	14304.6	15123.6	15642.4	15642.4	14841.9	16279.8	14964.2
55°	11884.7	12018.1	12733.3	13982.2	15638.7	17710.3	18796.1	18714.5	17480.5	18295.8	17495.3
57.5°	11087.9	11262.1	12129.2	13437.4	16339.1	20130.2	21927.5	21946.0	20363.6	20637.9	19993.1
60°	8894.0	8949.6	9972.4	11721.6	15664.6	22079.4	26204.1	26274.5	23643.3	22724.3	21264.2
62.5°	6148.0	6325.9	7096.7	8630.9	12977.9	21860.8	30328.7	30677.0	26270.8	23824.9	21464.3
65°	4046.8	4154.3	4565.6	5499.5	9034.9	18948.0	31610.9	32685.6	28279.3	23887.9	20626.8
67.5°	2935.0	2953.6	3075.9	3557.6	5429.1	13626.4	29420.7	30936.4	29031.6	23361.7	18662.7
70°	2371.7	2386.6	2431.0	2738.6	3505.7	8527.2	23995.4	26370.8	26774.8	20867.6	15030.9
72.5°	1927.0	1945.6	2001.2	2290.2	2890.6	4743.5	17547.2	20441.5	21779.3	15438.6	9991.0
75°	1515.7	1530.5	1663.9	1949.3	2716.4	3257.4	11640.1	14475.0	14656.6	9023.7	4676.8
77.5°	1037.6	1063.6	1226.6	1652.8	2557.0	2849.8	7256.1	9272.0	8319.6	3531.7	1608.3
80°	659.6	696.7	793.1	1252.6	2260.6	2720.1	4513.7	5536.5	3642.8	1208.1	774.5
82.5°	389.1	426.2	522.5	811.6	1775.1	2523.7	3179.6	3465.0	1708.4	618.9	466.9
85°	214.9	240.9	315.0	489.2	1041.3	2242.0	2545.9	2486.6	978.3	329.8	292.8
87.5°	70.4	81.5	114.9	196.4	429.9	1056.2	1526.8	1434.2	507.7	151.9	114.9
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°	9057.1	9057.1	9057.1	9057.1	9057.1	9057.1	9057.1	9057.1	9057.1	9057.1	9057.1
2.5°	9049.7	9038.6	8871.8	8745.8	8530.9	8353.0	8282.6	8186.2	8182.5	8112.1	8093.6
5°	8831.0	8716.2	8460.5	8215.9	7834.2	7578.5	7345.0	7181.9	7115.2	6970.7	6937.3
7.5°	8549.4	8397.5	8004.6	7545.1	7096.7	6696.5	6333.3	5970.1	5766.3	5695.9	5618.1
10°	8256.6	7989.8	7408.0	6892.9	6266.6	5651.4	5080.7	4569.3	4291.4	4095.0	4009.7
12.5°	8023.2	7667.4	6926.2	6155.4	5329.0	4506.3	3843.0	3305.6	2990.6	2842.4	2775.7
15°	7760.0	7289.4	6400.0	5425.4	4395.1	3461.3	2812.7	2390.3	2264.3	2193.9	2182.7
17.5°	7482.1	6937.3	5829.3	4706.4	3483.5	2605.2	2186.5	2016.0	1960.4	1930.7	1915.9
20°	7222.7	6622.4	5243.8	3906.0	2727.5	2090.1	1893.7	1804.7	1801.0	1815.9	1812.2
22.5°	6855.8	6211.0	4665.7	3164.8	2179.0	1819.6	1693.6	1671.3	1693.6	1712.1	1719.5
25°	6648.3	5873.8	4020.8	2512.6	1801.0	1615.8	1575.0	1567.6	1600.9	1623.2	1619.5
27.5°	6433.4	5525.4	3420.5	2012.3	1578.7	1471.2	1463.8	1471.2	1504.6	1537.9	1534.2
30°	6266.6	5247.5	2857.2	1682.5	1408.2	1367.5	1360.0	1367.5	1386.0	1389.7	1389.7
32.5°	6129.5	4917.7	2379.2	1460.1	1304.5	1271.1	1278.5	1274.8	1278.5	1282.2	1285.9
35°	6047.9	4721.3	1986.3	1323.0	1219.2	1193.3	1189.6	1178.5	1182.2	1185.9	1182.2
37.5°	6222.1	4624.9	1675.0	1226.6	1159.9	1137.7	1130.3	1122.9	1111.8	1111.8	1111.8
40°	6485.2	4573.0	1486.0	1163.6	1115.5	1089.5	1067.3	1059.9	1059.9	1063.6	1067.3
42.5°	7007.8	4658.3	1356.3	1115.5	1059.9	1030.2	1008.0	1011.7	1022.8	1033.9	1026.5
45°	7763.8	4917.7	1297.0	1078.4	1026.5	985.8	970.9	967.2	978.3	996.9	1011.7
47.5°	8753.2	5321.6	1274.8	1045.0	1004.3	948.7	930.2	941.3	956.1	982.1	970.9
50°	10372.7	6229.5	1293.3	1015.4	970.9	930.2	907.9	896.8	907.9	926.5	933.9
52.5°	12488.7	7878.6	1363.8	1000.6	948.7	915.3	878.3	859.8	870.9	885.7	885.7
55°	15019.8	10131.8	1560.2	982.1	911.6	893.1	852.3	815.3	822.7	822.7	819.0
57.5°	17250.7	11832.8	1793.6	956.1	889.4	863.5	811.6	767.1	759.7	763.4	767.1
60°	18251.3	12284.9	1904.8	948.7	889.4	826.4	756.0	711.5	700.4	693.0	693.0
62.5°	18077.1	11503.0	1678.7	915.3	911.6	796.8	704.1	655.9	641.1	626.3	630.0
65°	17024.7	10387.5	1323.0	870.9	915.3	778.2	652.2	604.1	578.1	559.6	555.9
67.5°	15101.3	8868.1	1048.8	837.5	878.3	744.9	607.8	552.2	529.9	511.4	504.0
70°	11814.2	6952.2	911.6	793.1	789.3	663.3	555.9	507.7	474.3	452.1	452.1
72.5°	7660.0	4395.1	781.9	704.1	681.9	555.9	481.8	452.1	426.2	407.6	407.6
75°	3468.7	2041.9	630.0	589.2	555.9	444.7	407.6	392.8	370.6	352.1	352.1
77.5°	1245.2	870.9	470.6	463.2	415.1	344.6	329.8	318.7	303.9	285.4	285.4
80°	696.7	552.2	352.1	337.2	289.1	255.7	237.2	237.2	229.8	218.6	214.9
82.5°	441.0	359.5	259.4	226.1	189.0	170.5	163.1	159.4	155.6	140.8	137.1
85°	277.9	244.6	170.5	133.4	111.2	85.2	81.5	77.8	70.4	63.0	63.0
87.5°	126.0	140.8	66.7	40.8	29.6	18.5	11.1	3.7	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)