

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: P480019

Luminaire Tested: **IFLD-L-SA8A-727-U-SL2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480019
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8A-727-U-SL2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens
Light Source: (128) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

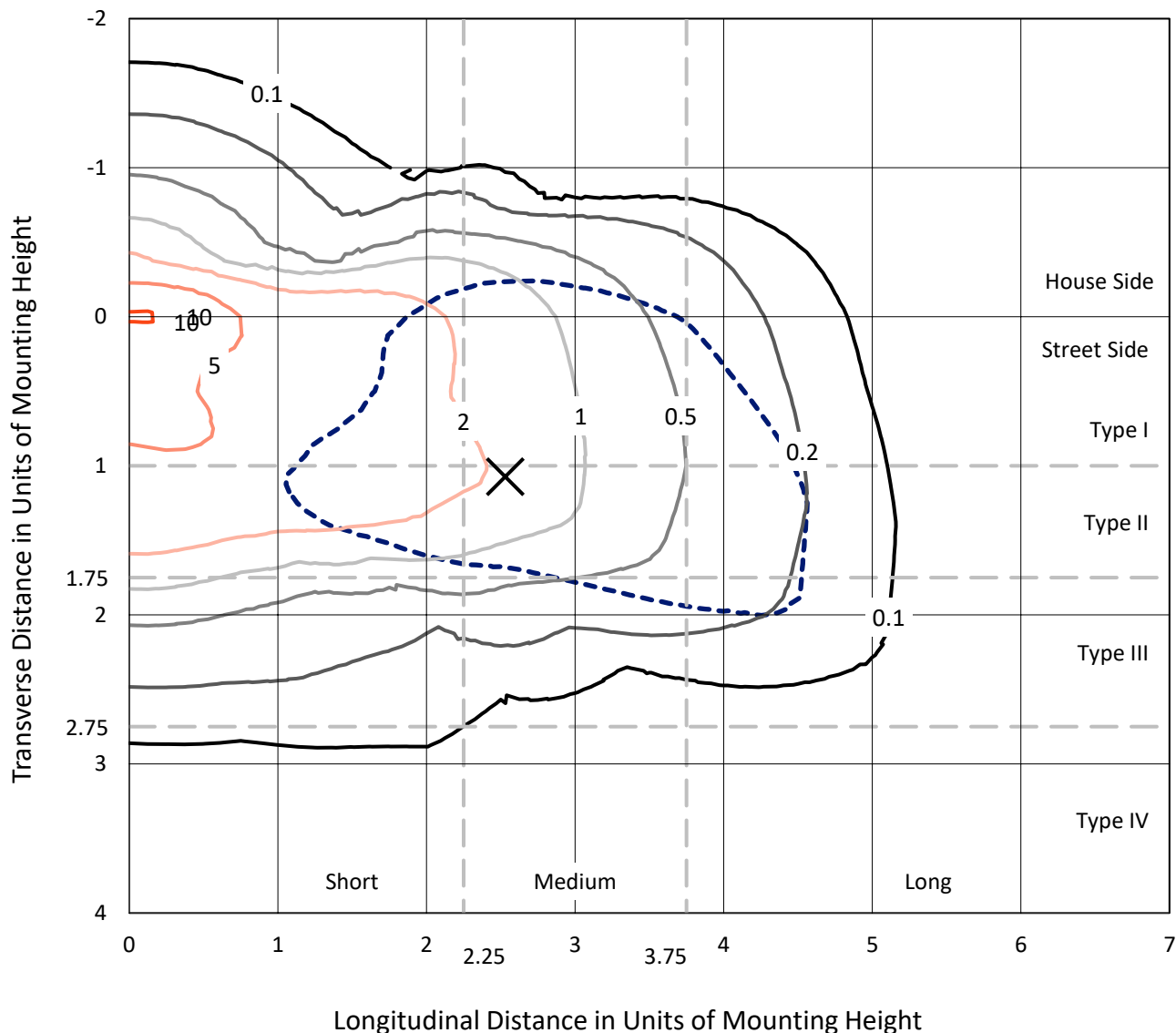
Lumens per Lamp: N/A
Luminaire Lumens: 28564.2 lumens
Efficiency: N/A
Efficacy: 115.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

Input Watts (W): 247.8
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

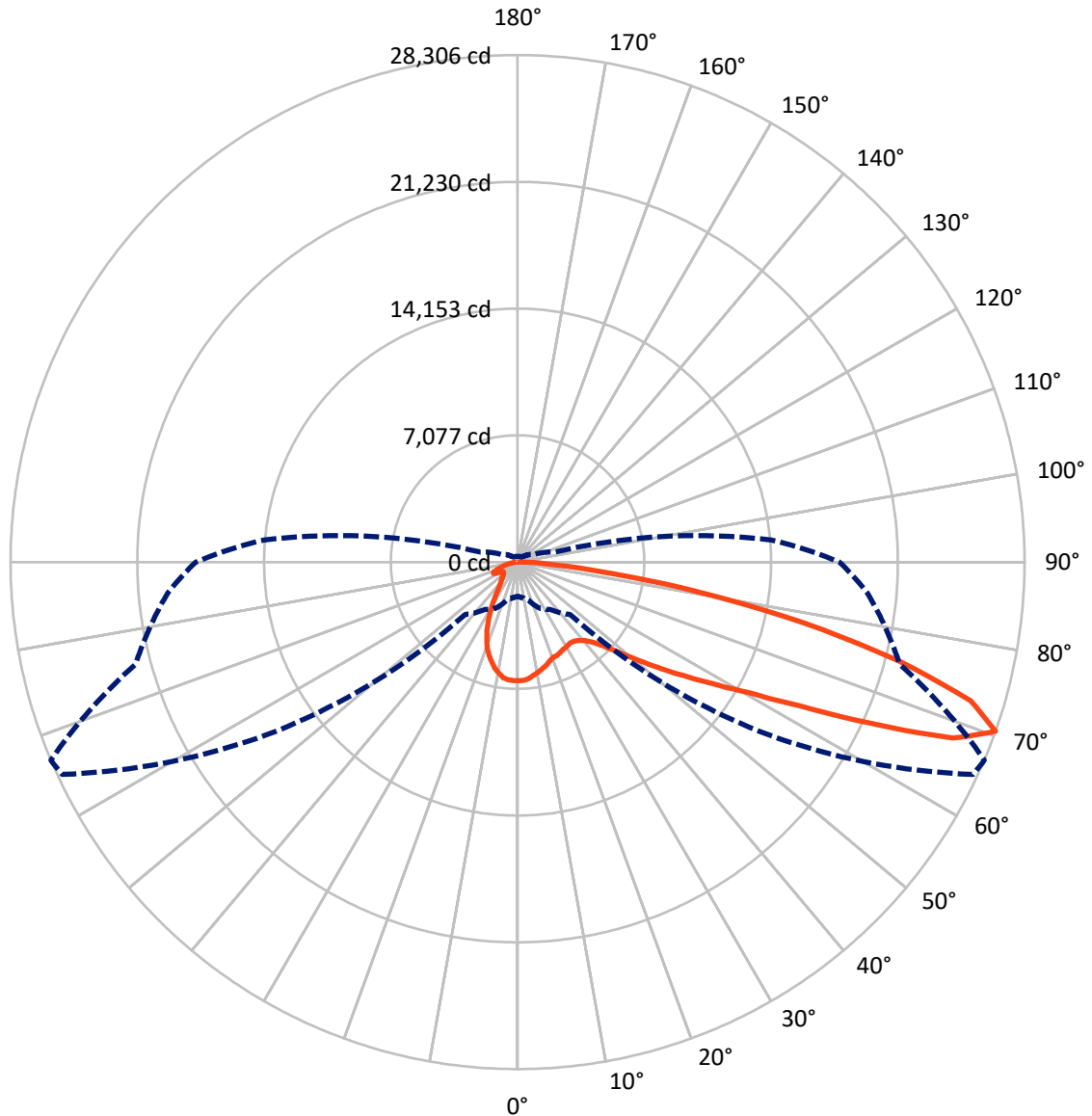
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.7 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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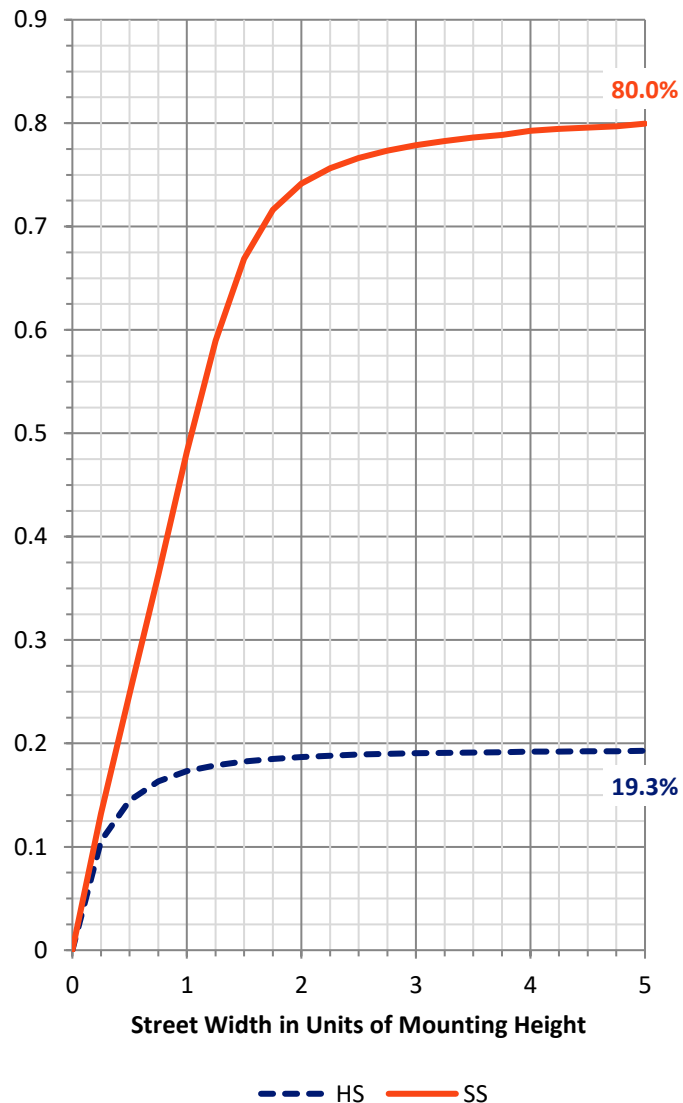
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5563.2	0.0	5563.2
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	23001.1	0.0	23001.1
	% Fixture	80.5	0.0	80.5
Total	Lumens	28564.2	0.0	28564.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	576.9	2.0
10°-20°	1381.8	4.8
20°-30°	1866.0	6.5
30°-40°	2496.9	8.7
40°-50°	3671.6	12.9
50°-60°	5723.1	20.0
60°-70°	7049.9	24.7
70°-80°	4981.4	17.4
80°-90°	816.5	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°	28564.2	100.0
0°-180°	28564.2	100.0

Coefficient of Utilization

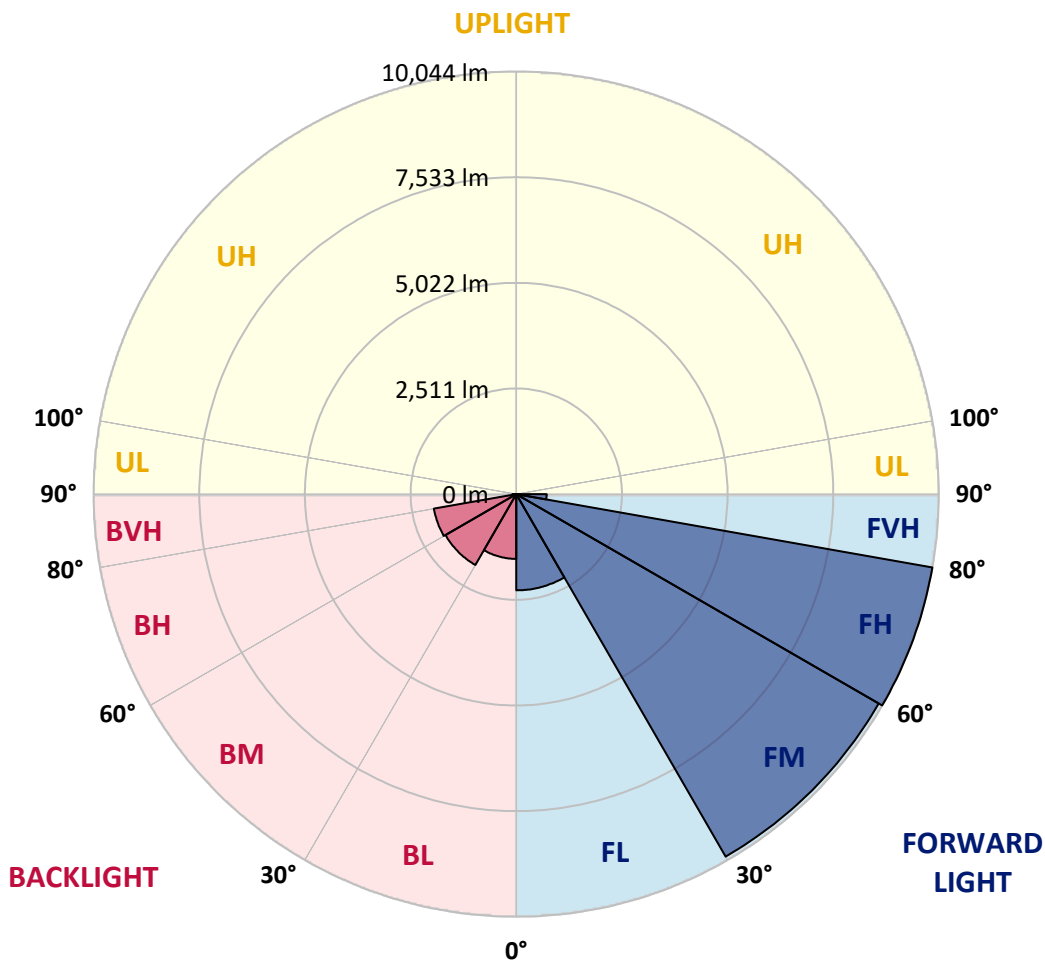


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2286.3	8.0			
FM (30°-60°)	9948.3	34.8			
FH (60°-80°)	10044.1	35.2			G4/12000
FVH (80°-90°)	722.3	2.5			G4/750
BL (0°-30°)	1538.4	5.4	B3/2500		
BM (30°-60°)	1943.3	6.8	B2/2500		
BH (60°-80°)	1987.2	7.0	B3/2500		G3/2500
BVH (80°-90°)	94.2	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°	6612.5	6612.5	6612.5	6612.5	6612.5	6612.5	6612.5	6612.5	6612.5	6612.5	6612.5
2.5°	6157.1	6226.7	6252.0	6290.0	6388.0	6460.7	6505.0	6555.6	6615.7	6666.3	6697.9
5°	5727.1	5765.0	5825.1	5866.2	5989.5	6185.6	6318.4	6533.5	6527.1	6606.2	6726.4
7.5°	5309.6	5347.6	5376.0	5458.3	5635.3	5812.4	6055.9	6403.8	6378.5	6561.9	6748.5
10°	5050.3	5021.8	5031.3	5170.5	5309.6	5508.9	5815.6	6169.8	6261.5	6546.1	6811.8
12.5°	4806.8	4775.2	4851.1	4939.6	5110.4	5290.7	5657.5	5976.9	6116.0	6489.2	6840.2
15°	4655.0	4632.9	4727.7	4765.7	4968.1	5183.1	5442.4	5831.4	5983.2	6419.6	6795.9
17.5°	4569.6	4588.6	4623.4	4705.6	4835.3	5018.7	5303.3	5733.4	5799.8	6334.2	6786.5
20°	4585.4	4607.6	4610.7	4645.5	4734.1	4876.4	5167.3	5629.0	5673.3	6318.4	6811.8
22.5°	4711.9	4680.3	4693.0	4670.8	4696.1	4806.8	5063.0	5489.9	5660.6	6185.6	6758.0
25°	4901.7	4857.4	4851.1	4775.2	4727.7	4759.4	5044.0	5455.1	5565.8	6144.5	6754.8
27.5°	5236.9	5170.5	5170.5	5056.6	4863.7	4813.1	4990.2	5398.2	5496.2	6106.5	6682.1
30°	5559.5	5559.5	5562.6	5401.3	5186.3	4936.5	5012.4	5376.0	5439.3	5992.7	6584.1
32.5°	5951.6	5942.1	5926.3	5847.2	5515.2	5142.0	5119.9	5347.6	5379.2	5954.7	6555.6
35°	6334.2	6308.9	6432.3	6362.7	6024.3	5543.6	5230.6	5360.2	5429.8	5897.8	6467.1
37.5°	6622.0	6637.8	6894.0	6938.2	6647.3	5999.0	5543.6	5486.7	5553.1	5980.0	6467.1
40°	6995.2	7058.4	7298.8	7447.4	7270.3	6599.9	6040.1	5698.6	5746.0	6163.5	6606.2
42.5°	7485.3	7539.1	7845.8	8038.8	7988.2	7365.2	6530.3	6141.3	6103.4	6470.2	6814.9
45°	8133.6	8143.1	8453.0	8718.7	8823.0	8165.2	7308.2	6701.1	6669.4	6998.3	7197.6
47.5°	8905.2	8895.8	9088.7	9373.3	9654.7	9120.3	8203.2	7551.7	7437.9	7754.1	7833.2
50°	9651.6	9610.5	9654.7	10018.4	10559.2	10315.7	9291.1	8592.2	8478.3	8652.3	8788.2
52.5°	10062.7	10113.3	9993.1	10473.8	11520.5	11729.2	10733.1	9835.0	9736.9	9822.3	10059.5
55°	9774.9	9879.3	9800.2	10255.6	11941.1	13452.7	12598.9	11273.9	11147.4	11115.7	11504.7
57.5°	8551.1	8740.8	8756.6	9477.6	11795.7	14787.3	15223.7	12972.1	12782.3	12459.8	12861.4
60°	6565.1	6754.8	6900.3	7754.1	10549.7	15584.2	18265.9	15388.1	14762.0	13927.1	14167.4
62.5°	4601.3	4730.9	4876.4	5401.3	8133.6	15116.1	20897.0	18790.8	17636.6	15473.5	15773.9
65°	3352.1	3453.3	3601.9	3911.9	4996.5	12507.2	22117.6	22832.3	21738.2	17440.5	17402.5
67.5°	2523.6	2586.8	2782.9	3279.4	3462.8	7725.7	20852.7	27101.5	26216.1	19625.7	18711.8
70°	1910.1	1963.8	2147.3	2827.2	3235.1	4142.7	16450.7	28053.4	28306.4	22076.5	19590.9
72.5°	1315.5	1375.6	1581.2	2356.0	3080.2	3285.7	10325.1	25485.6	26443.8	23085.3	18648.5
75°	806.4	847.5	967.7	1786.7	3058.0	3213.0	5682.8	20884.3	21899.4	21330.2	16314.7
77.5°	569.2	566.1	588.2	1046.7	2650.1	3231.9	3503.9	15302.7	16289.4	15720.2	11071.5
80°	414.3	417.4	439.6	626.1	1799.4	3285.7	2760.8	10249.3	10543.4	8196.9	4367.2
82.5°	249.8	262.5	316.2	423.8	1081.5	2966.3	2552.0	5695.4	5328.6	2631.1	1201.7
85°	132.8	132.8	186.6	268.8	575.6	2213.7	2457.2	2710.2	2270.6	815.9	445.9
87.5°	31.6	31.6	53.8	107.5	230.9	1059.4	1676.1	1078.4	863.3	275.1	183.4
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°	6612.5	6612.5	6612.5	6612.5	6612.5	6612.5	6612.5	6612.5	6612.5	6612.5	6612.5
2.5°	6685.3	6647.3	6694.7	6599.9	6524.0	6527.1	6410.1	6403.8	6388.0	6305.8	6334.2
5°	6761.2	6729.5	6675.8	6571.4	6403.8	6236.2	6135.0	6005.3	5951.6	5923.1	5935.8
7.5°	6833.9	6777.0	6622.0	6476.5	6217.2	5901.0	5717.6	5543.6	5322.3	5297.0	5252.7
10°	6852.9	6732.7	6533.5	6223.6	5878.9	5527.8	5110.4	4787.8	4617.1	4484.2	4433.6
12.5°	6824.4	6773.8	6391.2	5992.7	5470.9	4920.7	4433.6	3978.3	3662.0	3497.6	3453.3
15°	6821.2	6732.7	6233.0	5641.7	4974.4	4256.6	3564.0	3016.9	2684.9	2548.9	2548.9
17.5°	6824.4	6612.5	6046.5	5287.5	4389.4	3418.5	2656.4	2207.3	2023.9	2004.9	2020.8
20°	6761.2	6524.0	5850.4	4870.1	3655.7	2567.8	1929.0	1745.6	1745.6	1770.9	1780.4
22.5°	6704.2	6391.2	5540.5	4354.6	2909.4	1859.5	1568.5	1514.8	1574.9	1619.1	1638.1
25°	6625.2	6280.5	5224.2	3820.1	2213.7	1499.0	1363.0	1375.6	1432.6	1511.6	1505.3
27.5°	6511.3	6087.6	4847.9	3200.3	1647.6	1293.4	1258.6	1264.9	1325.0	1359.8	1353.5
30°	6381.7	5891.5	4500.1	2583.7	1306.1	1185.9	1182.7	1198.5	1208.0	1227.0	1223.8
32.5°	6217.2	5632.2	4130.1	2008.1	1176.4	1125.8	1113.2	1103.7	1113.2	1110.0	1100.5
35°	6100.2	5493.0	3753.7	1530.6	1103.7	1072.0	1062.6	1046.7	1034.1	1015.1	1012.0
37.5°	6068.6	5353.9	3358.4	1249.1	1046.7	1030.9	999.3	970.8	955.0	945.5	939.2
40°	6049.6	5262.2	2972.6	1097.3	999.3	983.5	945.5	907.6	891.8	882.3	885.5
42.5°	6116.0	5211.6	2580.5	1021.4	958.2	929.7	888.6	844.4	841.2	834.9	844.4
45°	6350.0	5274.8	2216.8	967.7	917.1	869.7	815.9	793.8	790.6	784.3	790.6
47.5°	6881.3	5433.0	1906.9	932.9	872.8	831.7	774.8	743.2	740.0	736.8	736.8
50°	7615.0	5920.0	1647.6	891.8	844.4	787.4	733.7	698.9	692.6	679.9	679.9
52.5°	8766.1	6739.0	1492.6	869.7	793.8	746.3	689.4	651.4	635.6	623.0	623.0
55°	10062.7	7754.1	1464.2	831.7	740.0	695.7	645.1	607.2	591.4	575.6	569.2
57.5°	11539.5	9098.1	1666.6	806.4	702.0	645.1	588.2	553.4	540.8	525.0	518.6
60°	12915.1	10439.0	2295.9	768.5	667.3	597.7	540.8	506.0	490.2	474.4	474.4
62.5°	14505.8	12099.2	3361.6	768.5	635.6	547.1	490.2	464.9	455.4	439.6	436.4
65°	16387.4	13816.4	4139.5	815.9	626.1	502.8	442.7	417.4	407.9	398.5	395.3
67.5°	17820.0	14803.1	3560.8	942.4	667.3	464.9	395.3	379.5	373.2	363.7	357.3
70°	17971.8	14202.2	2147.3	1018.3	708.4	426.9	354.2	338.4	338.4	328.9	322.6
72.5°	16608.8	12602.1	1445.2	907.6	642.0	382.6	313.1	300.4	294.1	287.8	284.6
75°	13898.6	10688.8	1141.6	724.2	493.3	316.2	272.0	259.3	249.8	246.7	240.3
77.5°	9335.3	6947.7	844.4	566.1	363.7	256.2	227.7	215.0	205.6	202.4	192.9
80°	3586.1	2646.9	543.9	411.1	256.2	202.4	180.3	167.6	161.3	151.8	145.5
82.5°	1056.2	857.0	303.6	253.0	164.4	139.1	129.7	120.2	110.7	101.2	98.0
85°	436.4	392.1	186.6	132.8	101.2	82.2	75.9	66.4	56.9	50.6	44.3
87.5°	202.4	167.6	85.4	50.6	34.8	19.0	9.5	3.2	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)