

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: P480167

Luminaire Tested: **IFLD-M-SA4C-750-U-SL2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480167
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4C-750-U-SL2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens
Light Source: (64) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

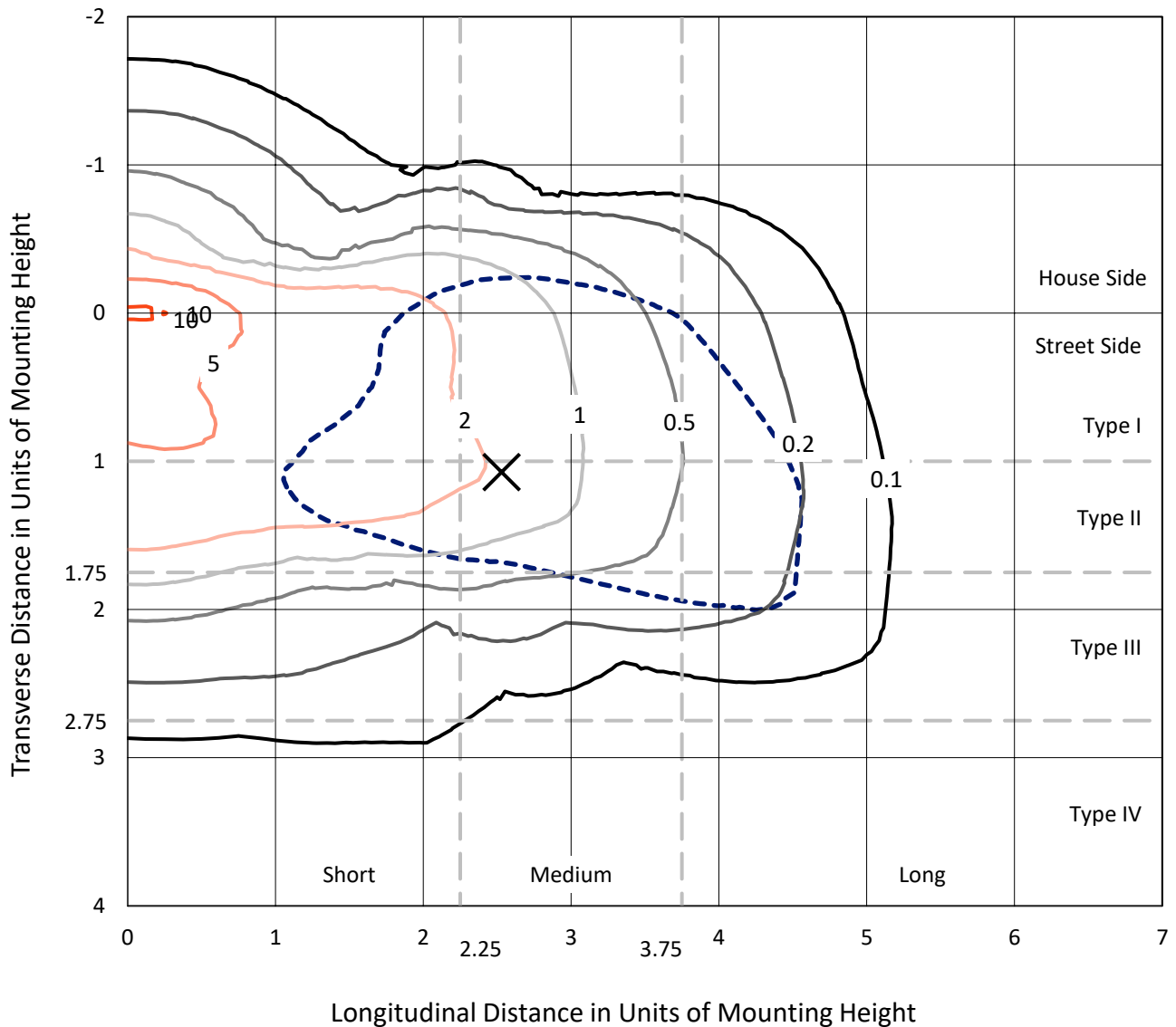
Lumens per Lamp: N/A
Luminaire Lumens: 28997.2 lumens
Efficiency: N/A
Efficacy: 133.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

Input Watts (W): 218.1
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

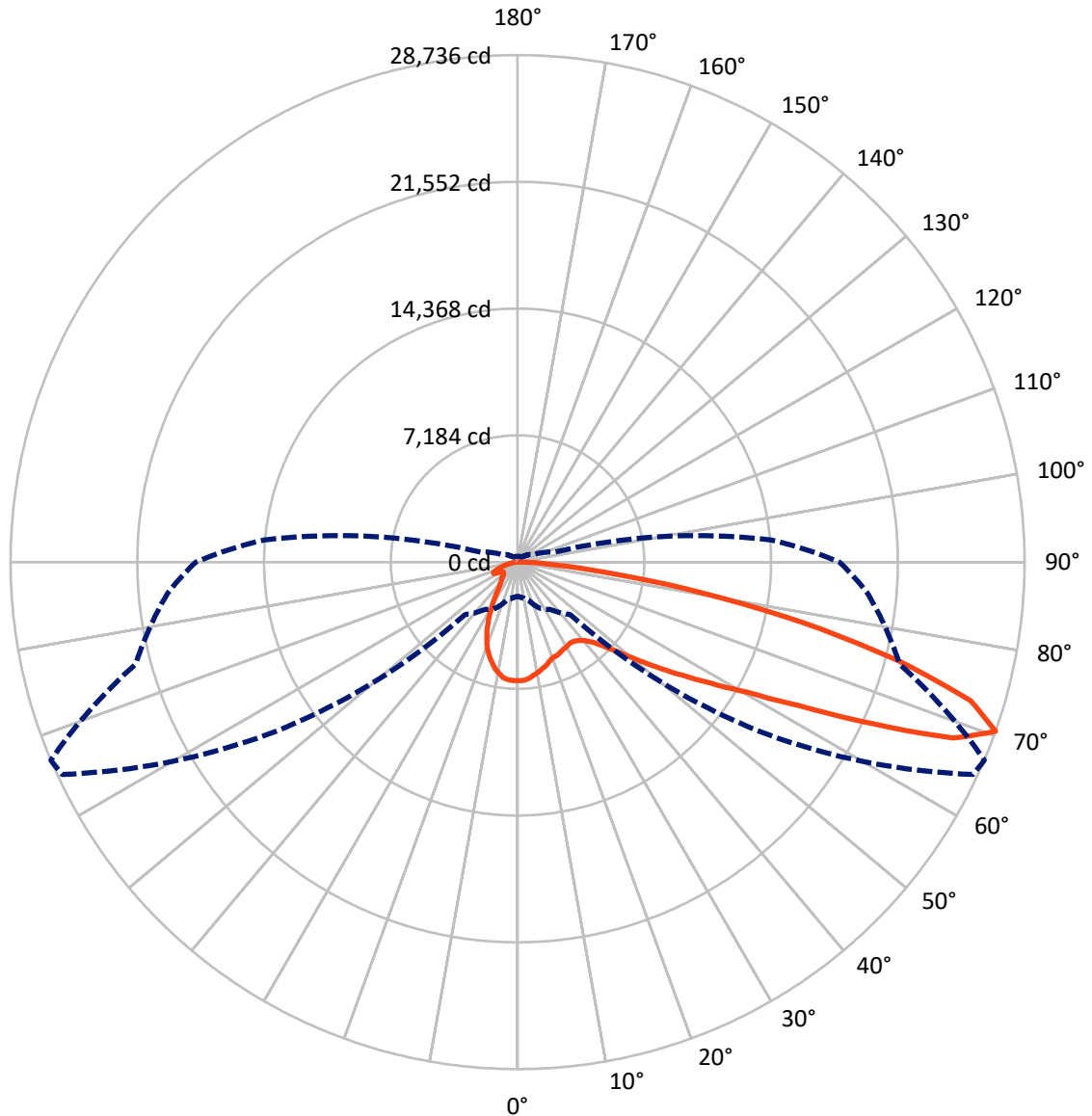
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.8 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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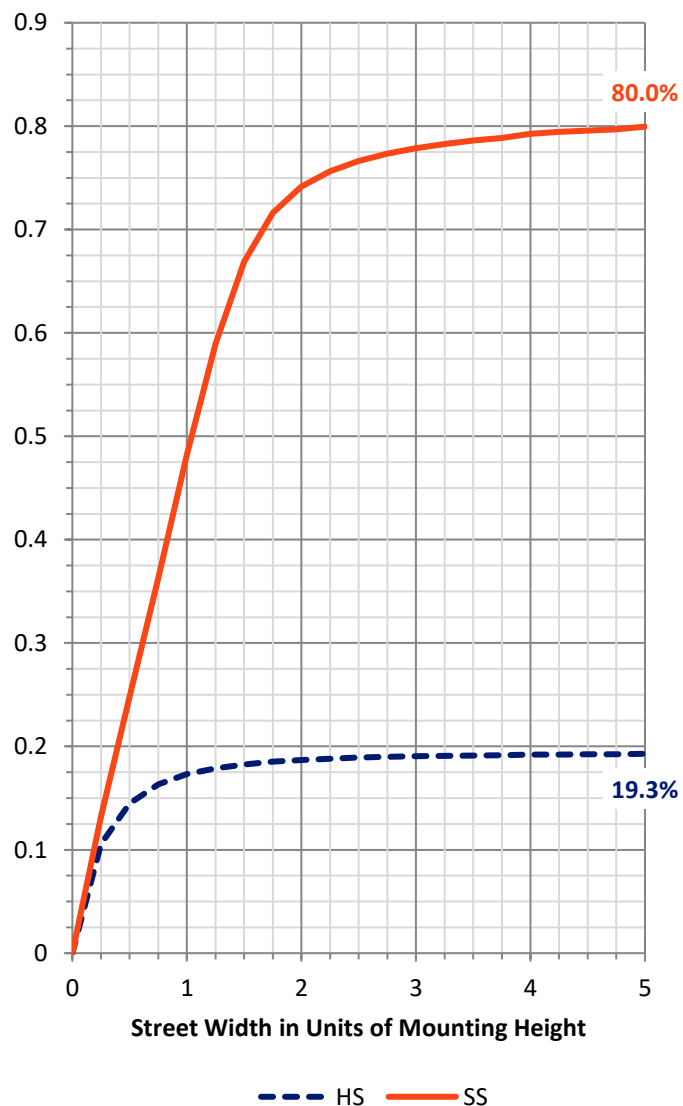
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5647.5	0.0	5647.5
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	23349.7	0.0	23349.7
	% Fixture	80.5	0.0	80.5
Total	Lumens	28997.2	0.0	28997.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	585.7	2.0
10°-20°	1402.7	4.8
20°-30°	1894.3	6.5
30°-40°	2534.7	8.7
40°-50°	3727.3	12.9
50°-60°	5809.9	20.0
60°-70°	7156.8	24.7
70°-80°	5056.9	17.4
80°-90°	828.9	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°	28997.2	100.0
0°-180°	28997.2	100.0

Coefficient of Utilization

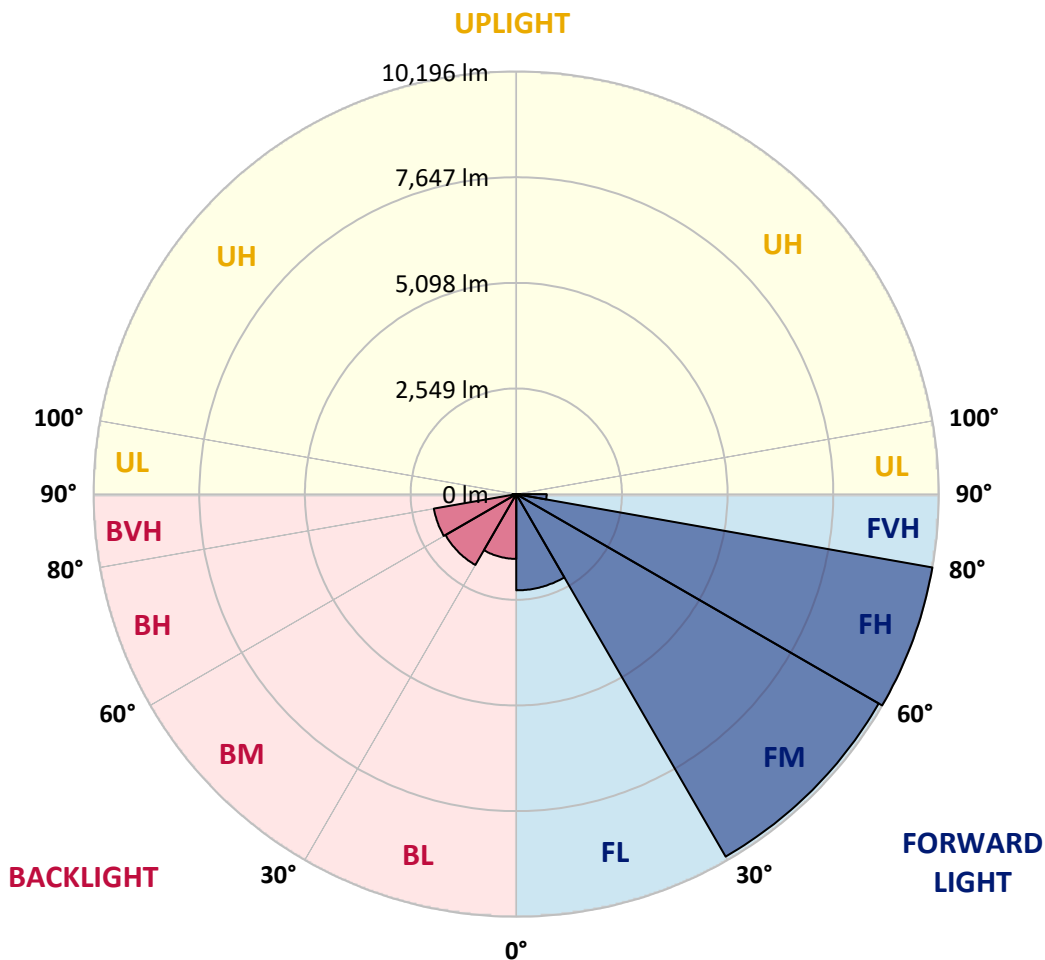


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2321.0	8.0			
FM (30°-60°)	10099.1	34.8			
FH (60°-80°)	10196.4	35.2			G4/12000
FVH (80°-90°)	733.2	2.5			G4/750
BL (0°-30°)	1561.7	5.4	B3/2500		
BM (30°-60°)	1972.8	6.8	B2/2500		
BH (60°-80°)	2017.4	7.0	B3/2500		G3/2500
BVH (80°-90°)	95.6	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°	6712.8	6712.8	6712.8	6712.8	6712.8	6712.8	6712.8	6712.8	6712.8	6712.8	6712.8
2.5°	6250.5	6321.1	6346.8	6385.3	6484.8	6558.7	6603.6	6655.0	6716.0	6767.3	6799.4
5°	5813.9	5852.4	5913.4	5955.1	6080.3	6279.4	6414.2	6632.5	6626.1	6706.3	6828.3
7.5°	5390.1	5428.6	5457.5	5541.0	5720.8	5900.6	6147.7	6500.9	6475.2	6661.4	6850.8
10°	5126.9	5098.0	5107.6	5248.9	5390.1	5592.4	5903.8	6263.3	6356.4	6645.3	6915.0
12.5°	4879.7	4847.6	4924.6	5014.5	5187.9	5370.9	5743.2	6067.5	6208.7	6587.6	6943.9
15°	4725.6	4703.1	4799.4	4837.9	5043.4	5261.7	5524.9	5919.8	6073.9	6516.9	6899.0
17.5°	4638.9	4658.2	4693.5	4776.9	4908.6	5094.8	5383.7	5820.3	5887.7	6430.3	6889.3
20°	4655.0	4677.4	4680.6	4715.9	4805.8	4950.3	5245.6	5714.4	5759.3	6414.2	6915.0
22.5°	4783.4	4751.3	4764.1	4741.6	4767.3	4879.7	5139.7	5573.1	5746.5	6279.4	6860.4
25°	4976.0	4931.0	4924.6	4847.6	4799.4	4831.5	5120.4	5537.8	5650.1	6237.6	6857.2
27.5°	5316.3	5248.9	5248.9	5133.3	4937.5	4886.1	5065.9	5480.0	5579.5	6199.1	6783.4
30°	5643.7	5643.7	5646.9	5483.2	5264.9	5011.3	5088.3	5457.5	5521.7	6083.5	6683.9
32.5°	6041.8	6032.2	6016.1	5935.9	5598.8	5220.0	5197.5	5428.6	5460.7	6045.0	6655.0
35°	6430.3	6404.6	6529.8	6459.1	6115.6	5627.7	5309.9	5441.5	5512.1	5987.2	6565.1
37.5°	6722.4	6738.4	6998.5	7043.4	6748.1	6090.0	5627.7	5569.9	5637.3	6070.7	6565.1
40°	7101.2	7165.4	7409.4	7560.3	7380.5	6699.9	6131.7	5785.0	5833.1	6256.9	6706.3
42.5°	7598.8	7653.4	7964.8	8160.6	8109.2	7476.8	6629.3	6234.4	6195.9	6568.3	6918.2
45°	8256.9	8266.6	8581.2	8850.8	8956.8	8289.0	7419.0	6802.6	6770.5	7104.4	7306.7
47.5°	9040.2	9030.6	9226.4	9515.4	9801.1	9258.5	8327.5	7666.2	7550.7	7871.7	7951.9
50°	9797.9	9756.1	9801.1	10170.3	10719.2	10472.0	9431.9	8722.4	8606.8	8783.4	8921.5
52.5°	10215.2	10266.6	10144.6	10632.6	11695.2	11907.0	10895.8	9984.1	9884.5	9971.2	10212.0
55°	9923.1	10029.0	9948.8	10411.0	12122.1	13656.7	12789.9	11444.8	11316.3	11284.2	11679.1
57.5°	8680.7	8873.3	8889.4	9621.3	11974.5	15011.4	15454.4	13168.7	12976.1	12648.6	13056.3
60°	6664.6	6857.2	7004.9	7871.7	10709.6	15820.4	18542.8	15621.4	14985.7	14138.2	14382.2
62.5°	4671.0	4802.6	4950.3	5483.2	8256.9	15345.3	21213.7	19075.7	17903.9	15708.1	16013.0
65°	3402.9	3505.7	3656.5	3971.2	5072.3	12696.8	22452.9	23178.4	22067.7	17704.9	17666.3
67.5°	2561.8	2626.0	2825.1	3329.1	3515.3	7842.8	21168.8	27512.4	26613.5	19923.2	18995.4
70°	1939.0	1993.6	2179.8	2870.0	3284.1	4205.5	16700.0	28478.7	28735.5	22411.2	19887.9
72.5°	1335.5	1396.5	1605.2	2391.7	3126.8	3335.5	10481.7	25871.9	26844.6	23435.3	18931.2
75°	818.6	860.4	982.4	1813.8	3104.4	3261.7	5768.9	21200.9	22231.4	21653.5	16562.0
77.5°	577.9	574.6	597.1	1062.6	2690.2	3280.9	3557.0	15534.7	16536.3	15958.5	11239.3
80°	420.6	423.8	446.2	635.6	1826.7	3335.5	2802.6	10404.6	10703.2	8321.1	4433.4
82.5°	253.6	266.5	321.0	430.2	1097.9	3011.3	2590.7	5781.8	5409.4	2671.0	1219.9
85°	134.8	134.8	189.4	272.9	584.3	2247.2	2494.4	2751.2	2305.0	828.3	452.7
87.5°	32.1	32.1	54.6	109.2	234.4	1075.5	1701.5	1094.7	876.4	279.3	186.2
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°	6712.8	6712.8	6712.8	6712.8	6712.8	6712.8	6712.8	6712.8	6712.8	6712.8	6712.8
2.5°	6786.6	6748.1	6796.2	6699.9	6622.9	6626.1	6507.3	6500.9	6484.8	6401.4	6430.3
5°	6863.6	6831.5	6777.0	6671.0	6500.9	6330.7	6228.0	6096.4	6041.8	6012.9	6025.8
7.5°	6937.5	6879.7	6722.4	6574.7	6311.5	5990.4	5804.2	5627.7	5403.0	5377.3	5332.3
10°	6956.7	6834.8	6632.5	6317.9	5968.0	5611.6	5187.9	4860.4	4687.1	4552.2	4500.9
12.5°	6927.9	6876.5	6488.0	6083.5	5553.8	4995.2	4500.9	4038.6	3717.5	3550.6	3505.7
15°	6924.6	6834.8	6327.5	5727.2	5049.8	4321.1	3618.0	3062.6	2725.6	2587.5	2587.5
17.5°	6927.9	6712.8	6138.1	5367.6	4455.9	3470.3	2696.7	2240.8	2054.6	2035.3	2051.4
20°	6863.6	6622.9	5939.1	4943.9	3711.1	2606.8	1958.3	1772.1	1772.1	1797.8	1807.4
22.5°	6805.9	6488.0	5624.5	4420.6	2953.5	1887.7	1592.3	1537.7	1598.7	1643.7	1662.9
25°	6725.6	6375.7	5303.4	3878.1	2247.2	1521.7	1383.6	1396.5	1454.3	1534.5	1528.1
27.5°	6610.0	6179.8	4921.4	3248.8	1672.6	1313.0	1277.7	1284.1	1345.1	1380.4	1374.0
30°	6478.4	5980.8	4568.3	2622.8	1325.9	1203.9	1200.7	1216.7	1226.3	1245.6	1242.4
32.5°	6311.5	5717.6	4192.7	2038.5	1194.2	1142.9	1130.0	1120.4	1130.0	1126.8	1117.2
35°	6192.7	5576.3	3810.6	1553.8	1120.4	1088.3	1078.7	1062.6	1049.8	1030.5	1027.3
37.5°	6160.6	5435.1	3409.4	1268.1	1062.6	1046.6	1014.5	985.6	969.5	959.9	953.5
40°	6141.3	5342.0	3017.7	1114.0	1014.5	998.4	959.9	921.4	905.3	895.7	898.9
42.5°	6208.7	5290.6	2619.6	1036.9	972.7	943.8	902.1	857.2	853.9	847.5	857.2
45°	6446.3	5354.8	2250.4	982.4	931.0	882.8	828.3	805.8	802.6	796.2	802.6
47.5°	6985.6	5515.3	1935.8	947.0	886.0	844.3	786.5	754.4	751.2	748.0	748.0
50°	7730.4	6009.7	1672.6	905.3	857.2	799.4	744.8	709.5	703.1	690.2	690.2
52.5°	8899.0	6841.2	1515.3	882.8	805.8	757.6	699.8	661.3	645.3	632.4	632.4
55°	10215.2	7871.7	1486.4	844.3	751.2	706.3	654.9	616.4	600.3	584.3	577.9
57.5°	11714.4	9236.1	1691.8	818.6	712.7	654.9	597.1	561.8	549.0	532.9	526.5
60°	13110.9	10597.2	2330.7	780.1	677.4	606.7	549.0	513.6	497.6	481.5	481.5
62.5°	14725.7	12282.6	3412.6	780.1	645.3	555.4	497.6	471.9	462.3	446.2	443.0
65°	16635.8	14025.8	4202.3	828.3	635.6	510.4	449.4	423.8	414.1	404.5	401.3
67.5°	18090.1	15027.5	3614.8	956.7	677.4	471.9	401.3	385.2	378.8	369.2	362.8
70°	18244.2	14417.5	2179.8	1033.7	719.1	433.4	359.6	343.5	343.5	333.9	327.5
72.5°	16860.6	12793.1	1467.1	921.4	651.7	388.4	317.8	305.0	298.6	292.1	288.9
75°	14109.3	10850.9	1158.9	735.2	500.8	321.0	276.1	263.2	253.6	250.4	244.0
77.5°	9476.8	7053.1	857.2	574.6	369.2	260.0	231.1	218.3	208.7	205.5	195.8
80°	3640.5	2687.0	552.2	417.3	260.0	205.5	183.0	170.1	163.7	154.1	147.7
82.5°	1072.2	870.0	308.2	256.8	166.9	141.3	131.6	122.0	112.4	102.7	99.5
85°	443.0	398.1	189.4	134.8	102.7	83.5	77.0	67.4	57.8	51.4	44.9
87.5°	205.5	170.1	86.7	51.4	35.3	19.3	9.6	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)