

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: P481030

Luminaire Tested: **IFLD-L-SA7C-827-U-SL4**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481030
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7C-827-U-SL4
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens
Light Source: (112) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

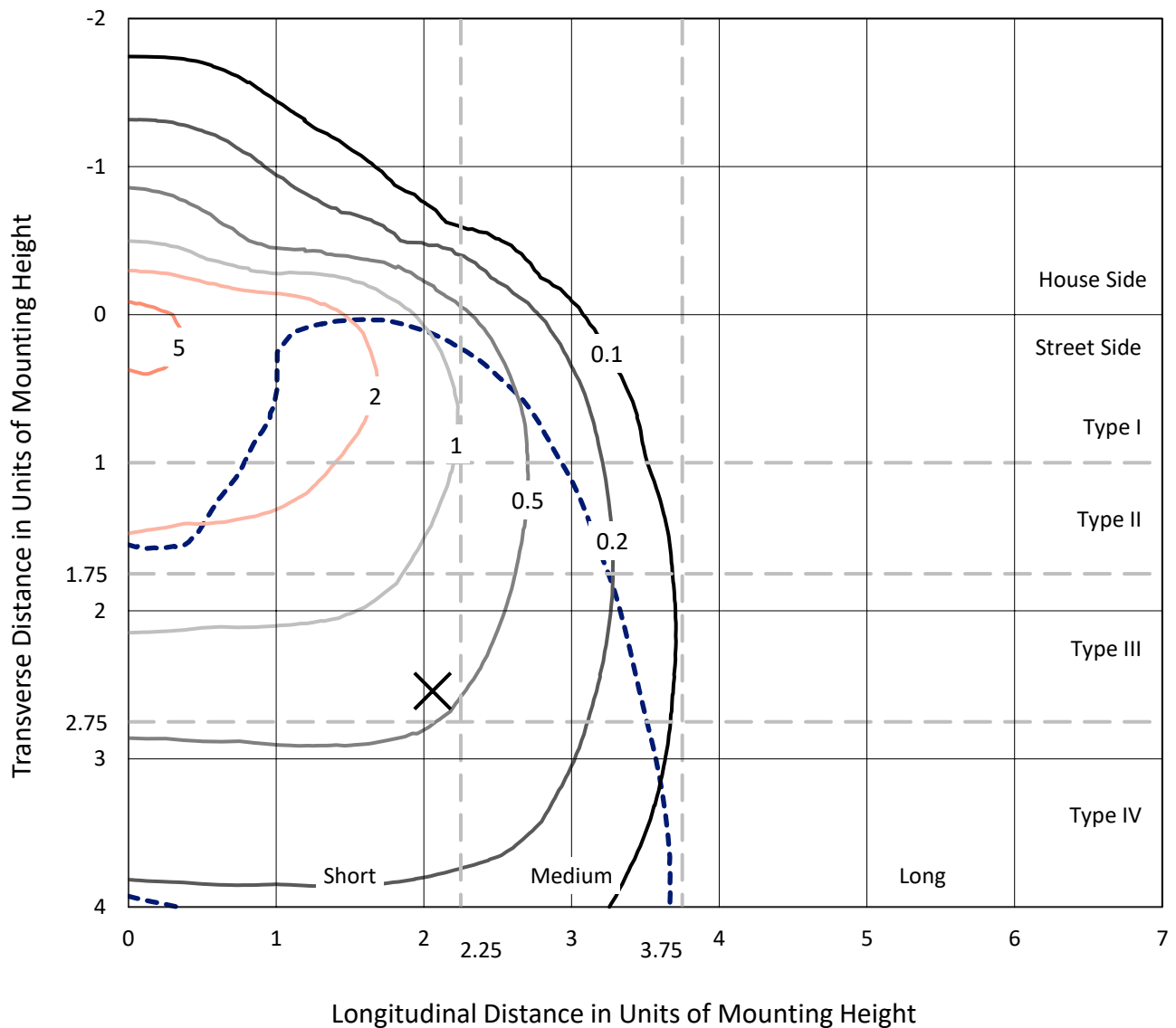
Lumens per Lamp: N/A
Luminaire Lumens: 31521.3 lumens
Efficiency: N/A
Efficacy: 85.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 369
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

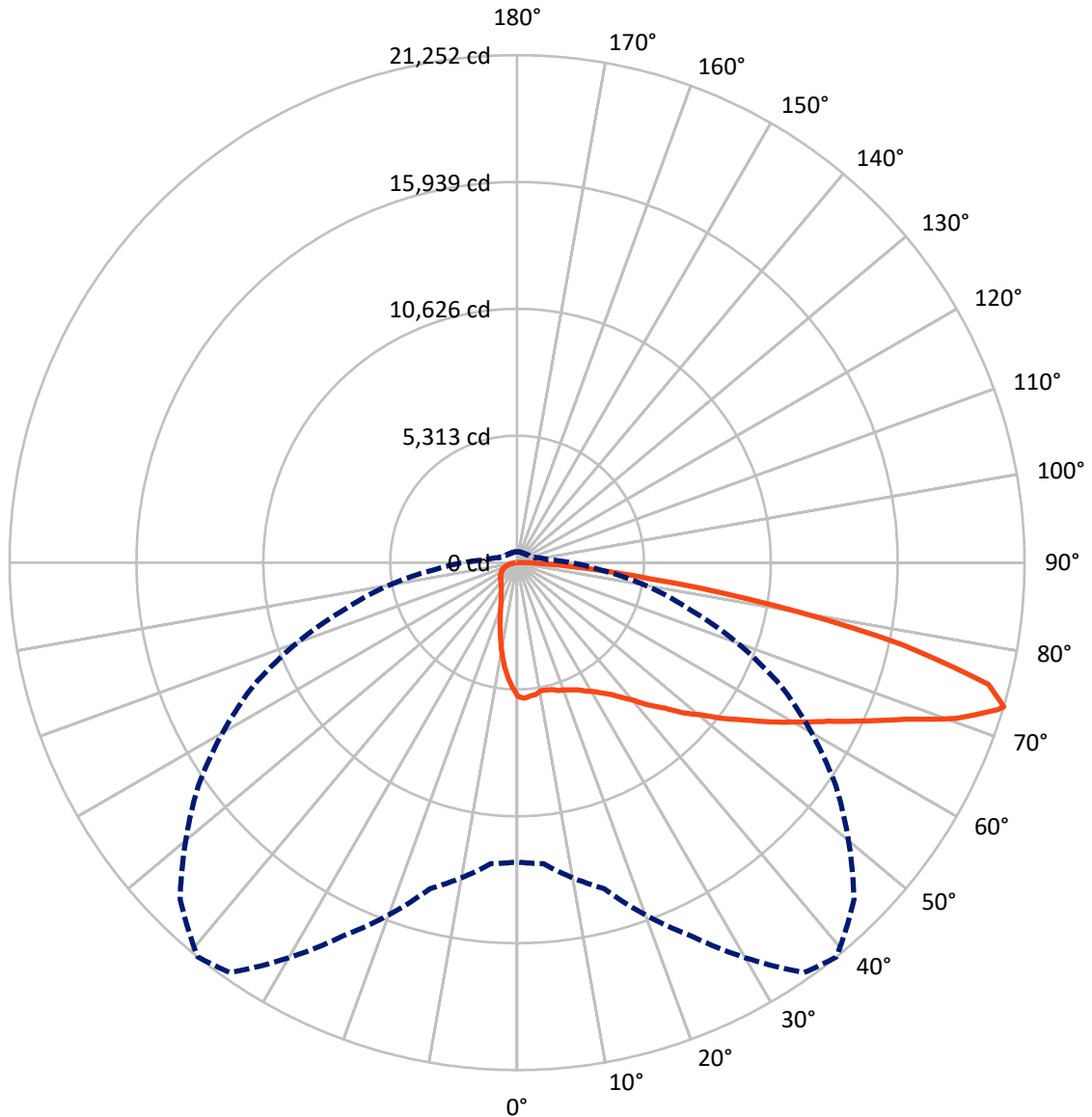
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.2 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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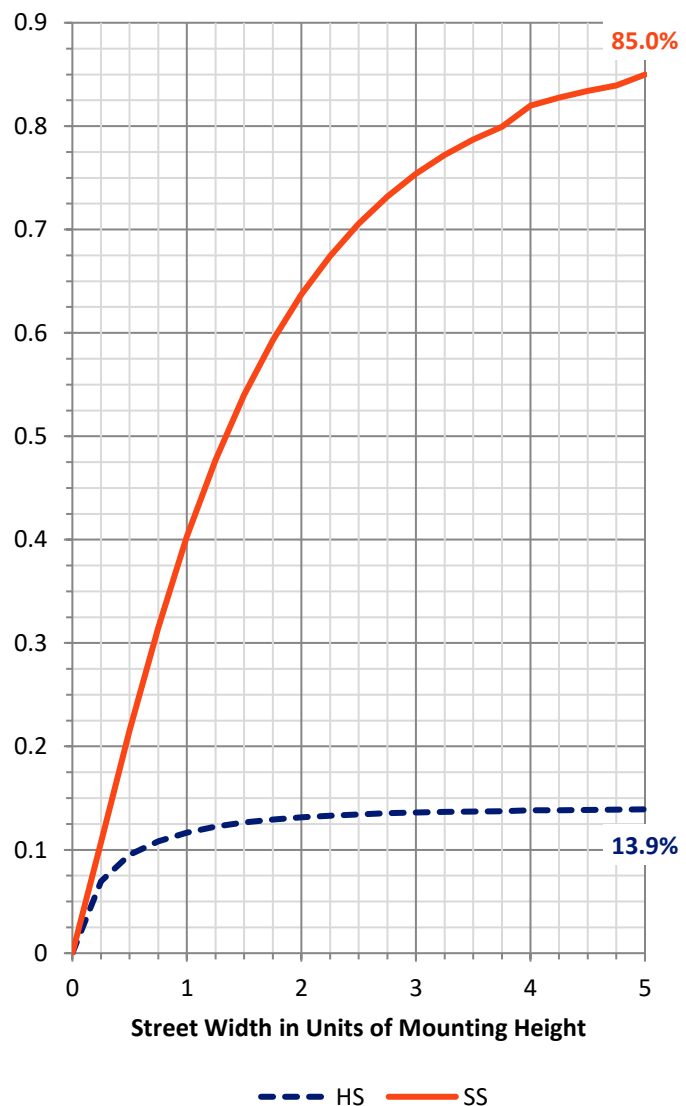
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4431.0	0.0	4431.0
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	27090.3	0.0	27090.3
	% Fixture	85.9	0.0	85.9
Total	Lumens	31521.3	0.0	31521.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	487.1	1.5
10°-20°	1238.2	3.9
20°-30°	1892.1	6.0
30°-40°	2758.8	8.8
40°-50°	4168.8	13.2
50°-60°	6036.7	19.2
60°-70°	7669.9	24.3
70°-80°	6217.7	19.7
80°-90°	1052.0	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°	31521.3	100.0
0°-180°	31521.3	100.0

Coefficient of Utilization



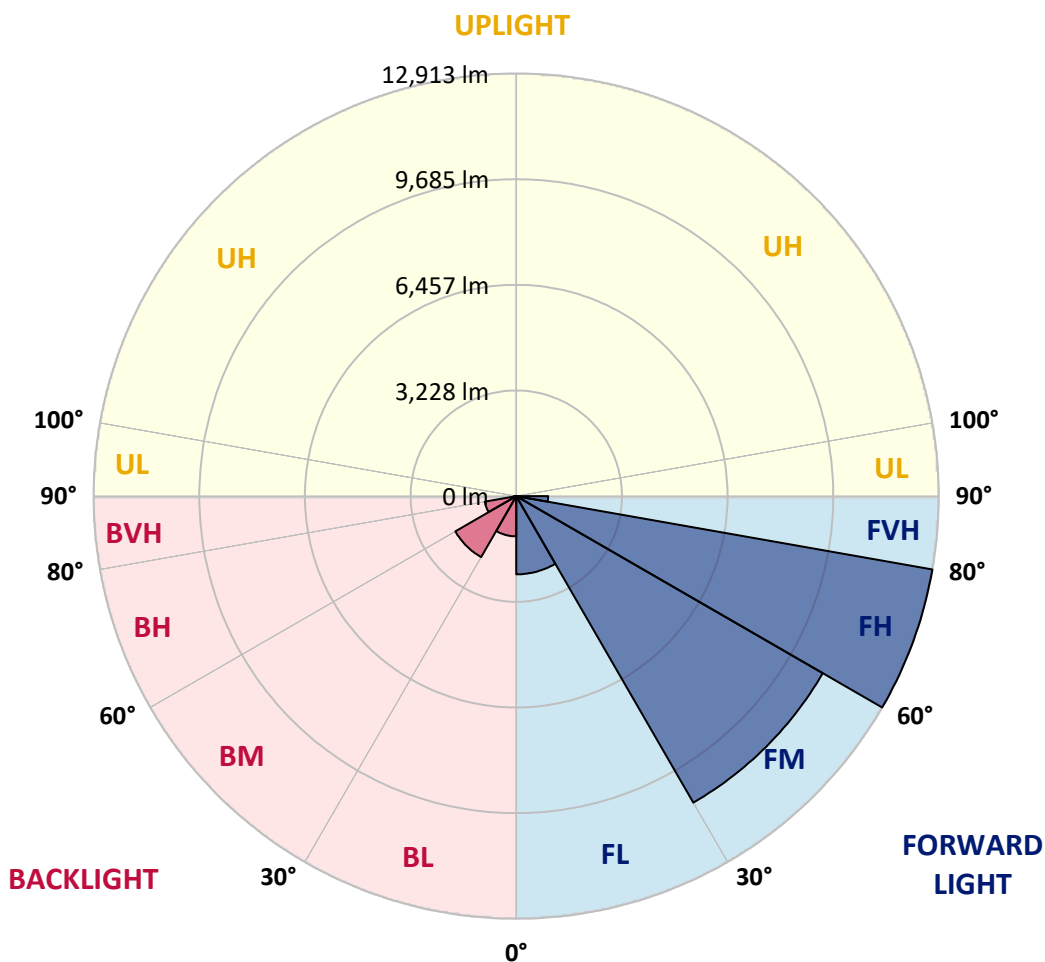
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2388.6	7.6			
FM (30°-60°)	10813.8	34.3			
FH (60°-80°)	12913.0	41.0			G5
FVH (80°-90°)	974.8	3.1			G5
BL (0°-30°)	1228.8	3.9	B3/2500		
BM (30°-60°)	2150.5	6.8	B2/2500		
BH (60°-80°)	974.5	3.1	B2/1000		G2/1000
BVH (80°-90°)	77.2	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°	5611.0	5611.0	5611.0	5611.0	5611.0	5611.0	5611.0	5611.0	5611.0	5611.0	5611.0
2.5°	5745.0	5685.1	5695.6	5674.5	5695.6	5688.6	5678.0	5625.1	5678.0	5625.1	5611.0
5°	5667.4	5667.4	5702.7	5649.8	5656.8	5621.6	5656.8	5618.0	5582.8	5494.6	5469.9
7.5°	5642.7	5639.2	5642.7	5568.7	5603.9	5582.8	5547.5	5505.2	5434.7	5378.2	5297.1
10°	5473.4	5508.7	5469.9	5491.1	5519.3	5455.8	5452.3	5441.7	5410.0	5335.9	5286.5
12.5°	5381.8	5441.7	5462.9	5445.2	5469.9	5477.0	5455.8	5441.7	5402.9	5353.5	5212.5
15°	5420.5	5350.0	5410.0	5526.3	5501.7	5519.3	5522.8	5508.7	5491.1	5399.4	5307.7
17.5°	5431.1	5388.8	5515.8	5540.5	5572.2	5635.7	5593.4	5589.8	5522.8	5459.3	5325.3
20°	5455.8	5438.2	5540.5	5670.9	5674.5	5685.1	5706.2	5653.3	5618.0	5508.7	5304.2
22.5°	5547.5	5607.5	5702.7	5759.1	5790.9	5797.9	5797.9	5692.1	5653.3	5565.1	5402.9
25°	5822.6	5759.1	5893.1	5960.1	5914.3	5903.7	5879.0	5783.8	5741.5	5663.9	5448.8
27.5°	6023.6	6020.1	6097.7	6189.4	6065.9	6090.6	6002.5	5974.2	5879.0	5836.7	5529.9
30°	6298.7	6376.3	6372.8	6401.0	6238.7	6267.0	6154.1	6101.2	6048.3	6073.0	5769.7
32.5°	6651.4	6623.2	6669.0	6647.8	6485.6	6510.3	6376.3	6295.2	6312.8	6386.9	6097.7
35°	6877.1	6848.9	6866.5	6866.5	6817.1	6788.9	6732.5	6626.7	6711.3	6848.9	6464.5
37.5°	7120.4	7155.7	7258.0	7236.8	7173.3	7173.3	7166.3	7092.2	7201.5	7540.1	7049.9
40°	7335.6	7430.8	7494.3	7536.6	7610.6	7610.6	7670.6	7628.3	7825.8	8368.9	7765.8
42.5°	7561.3	7564.8	7910.4	7942.1	8107.9	8178.4	8224.3	8259.5	8629.9	9236.4	8531.1
45°	7850.4	7868.1	8171.4	8414.7	8672.2	8696.9	8869.7	8986.0	9441.0	10185.1	9363.4
47.5°	8231.3	8210.2	8534.6	8922.6	9243.5	9412.8	9620.9	9747.8	10308.6	11214.9	10273.3
50°	8732.1	8668.6	8855.6	9465.7	9843.0	10030.0	10400.3	10611.9	11267.8	12198.9	10897.5
52.5°	9342.2	9236.4	9384.6	10051.1	10474.3	10851.7	11204.3	11440.6	12124.8	12960.6	11359.5
55°	9987.6	9769.0	9811.3	10671.8	11281.9	11638.1	12121.3	12368.2	13066.4	13644.8	11821.5
57.5°	10626.0	10488.4	10403.8	11267.8	12244.7	12586.8	13031.2	13352.1	13944.6	14251.4	12213.0
60°	11162.0	11126.8	10989.2	12191.8	13263.9	13556.7	14022.2	14219.7	14667.6	14812.2	12220.0
62.5°	11602.9	11483.0	11701.6	12936.0	14300.8	14632.3	15143.7	15161.3	15478.7	15161.3	11860.3
65°	11948.5	11955.5	12304.7	13835.3	15499.9	15990.1	16402.7	16356.9	16152.3	14953.2	11010.4
67.5°	12262.4	12396.4	12907.7	14822.7	17041.0	17503.0	17961.5	17354.9	16335.7	13979.9	9349.3
70°	12509.2	12643.2	13722.4	16025.4	18857.3	19534.4	19636.7	17749.9	15492.8	11842.7	7053.4
72.5°	12481.0	12724.4	14184.4	16984.6	20469.0	21054.4	20229.2	16639.0	12907.7	8256.0	4115.7
73°	12541.0	12660.9	14145.6	17252.7	20959.2	21251.9	19954.1	16289.9	12174.2	7406.1	3480.9
75°	11384.2	11789.8	13443.8	16815.3	20433.7	20380.8	18374.1	13574.3	8654.5	3890.0	1685.8
77.5°	8421.8	8679.2	10594.2	13828.2	16773.0	16434.5	13860.0	8675.7	4108.6	1442.4	909.9
80°	4115.7	4316.7	5614.5	7984.5	10968.1	10996.3	8601.6	4514.2	1759.8	814.7	620.7
82.5°	2056.1	2176.0	2697.9	3509.1	5395.9	5653.3	4362.5	2567.4	1089.8	462.0	352.7
85°	1343.7	1428.3	1661.1	1717.5	2288.8	2415.8	2031.4	2003.2	708.9	250.4	285.7
87.5°	892.3	906.4	1019.2	867.6	916.9	881.7	980.4	1262.6	208.1	105.8	77.6
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°	5611.0	5611.0	5611.0	5611.0	5611.0	5611.0	5611.0	5611.0	5611.0	5611.0	5611.0
2.5°	5593.4	5544.0	5491.1	5417.0	5364.1	5283.0	5208.9	5177.2	5170.2	5173.7	5138.4
5°	5448.8	5378.2	5272.4	5120.8	5032.6	4898.6	4785.7	4725.8	4662.3	4672.9	4644.7
7.5°	5247.7	5170.2	5007.9	4831.6	4612.9	4422.5	4316.7	4168.6	4083.9	4020.4	4055.7
10°	5184.3	5050.2	4806.9	4563.6	4225.0	3974.6	3731.3	3562.0	3445.6	3332.7	3382.1
12.5°	5152.5	5018.5	4679.9	4320.2	3882.9	3502.0	3159.9	2951.9	2786.1	2687.4	2726.1
15°	5124.3	4958.6	4560.0	4052.2	3562.0	3061.2	2676.8	2401.7	2243.0	2147.8	2158.3
17.5°	5163.1	4926.8	4383.7	3791.2	3209.3	2673.2	2246.5	1960.8	1798.6	1738.7	1724.6
20°	5124.3	4891.5	4210.9	3530.2	2856.6	2302.9	1893.8	1657.6	1544.7	1495.3	1484.7
22.5°	5138.4	4806.9	4031.0	3241.0	2528.6	1992.6	1657.6	1477.7	1389.5	1364.8	1371.9
25°	5205.4	4757.5	3851.2	2923.6	2204.2	1763.4	1505.9	1368.4	1304.9	1280.2	1287.2
27.5°	5254.8	4799.8	3688.9	2623.9	1929.1	1558.8	1378.9	1287.2	1244.9	1227.3	1223.8
30°	5378.2	4824.5	3530.2	2355.8	1703.4	1424.8	1290.8	1216.7	1188.5	1177.9	1174.4
32.5°	5561.6	4870.4	3346.8	2109.0	1537.6	1297.8	1220.2	1156.8	1149.7	1139.1	1142.7
35°	5861.4	5029.1	3142.3	1897.4	1378.9	1213.2	1146.2	1103.9	1103.9	1103.9	1114.4
37.5°	6291.6	5251.3	2958.9	1696.3	1276.7	1139.1	1082.7	1068.6	1061.5	1072.1	1079.2
40°	6845.3	5519.3	2810.8	1537.6	1188.5	1089.8	1040.4	1033.3	1029.8	1026.3	1033.3
42.5°	7451.9	5861.4	2683.8	1414.2	1125.0	1036.9	1001.6	994.5	980.4	987.5	998.1
45°	8055.0	6284.6	2571.0	1315.5	1082.7	1008.6	959.3	955.7	948.7	945.2	962.8
47.5°	8725.1	6700.7	2535.7	1255.5	1051.0	966.3	931.1	927.5	906.4	902.8	916.9
50°	9247.0	7007.6	2574.5	1227.3	1005.1	934.6	909.9	892.3	874.6	857.0	857.0
52.5°	9606.8	7219.2	2602.7	1206.1	980.4	892.3	860.5	853.5	835.8	818.2	811.1
55°	9931.2	7346.1	2609.8	1209.7	955.7	842.9	821.7	818.2	807.6	779.4	772.3
57.5°	10040.5	7293.2	2468.7	1177.9	941.6	811.1	782.9	790.0	775.9	751.2	747.7
60°	10030.0	6926.5	2147.8	1135.6	909.9	775.9	740.6	761.8	761.8	733.6	730.0
62.5°	9419.8	6080.0	1756.3	1054.5	874.6	740.6	701.8	733.6	744.1	726.5	723.0
65°	8153.7	4951.5	1467.1	973.4	821.7	701.8	663.0	698.3	715.9	708.9	705.3
67.5°	6746.6	3787.7	1220.2	867.6	754.7	648.9	617.2	641.9	652.4	656.0	659.5
70°	4768.1	2521.6	1019.2	751.2	663.0	592.5	557.2	560.7	557.2	567.8	567.8
72.5°	2592.1	1453.0	828.8	638.3	571.3	514.9	490.2	472.6	472.6	469.1	469.1
73°	2218.3	1304.9	790.0	620.7	546.6	500.8	472.6	458.5	458.5	454.9	451.4
75°	1244.9	955.7	677.1	532.5	472.6	437.3	416.2	395.0	391.5	391.5	391.5
77.5°	818.2	744.1	539.6	426.7	380.9	349.1	342.1	320.9	320.9	320.9	317.4
80°	613.6	585.4	416.2	324.5	292.7	268.0	261.0	246.9	243.3	229.2	232.8
82.5°	409.1	462.0	303.3	229.2	197.5	183.4	183.4	179.9	169.3	151.6	151.6
85°	324.5	377.4	218.7	141.1	116.4	98.7	102.3	98.7	95.2	77.6	74.1
87.5°	60.0	151.6	63.5	38.8	28.2	17.6	17.6	10.6	7.1	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)