

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: P480367

Luminaire Tested: **IFLD-L-SA7C-722-U-SL3**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480367
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7C-722-U-SL3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens
Light Source: (112) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

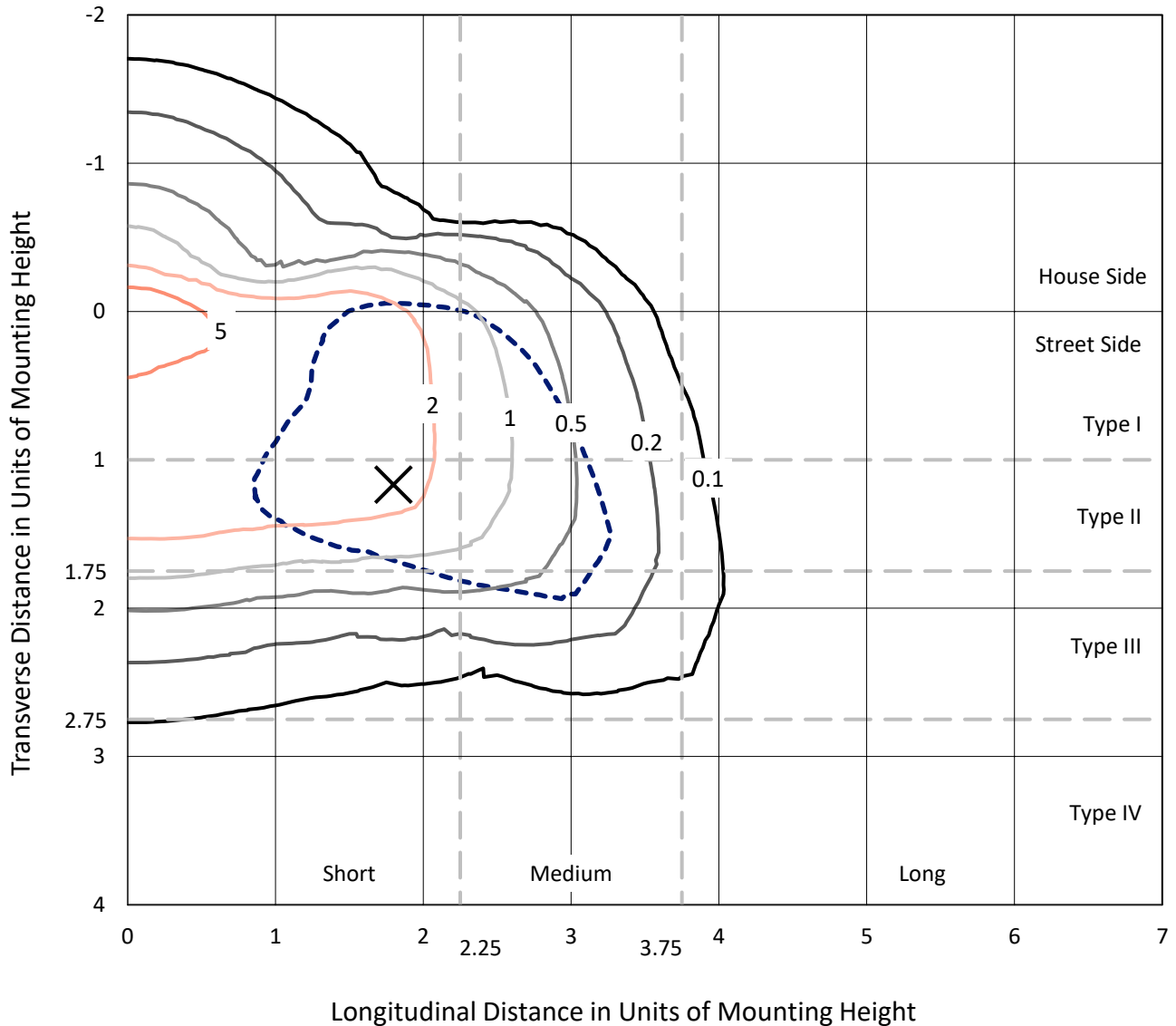
Lumens per Lamp: N/A
Luminaire Lumens: 32220.6 lumens
Efficiency: N/A
Efficacy: 87.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 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

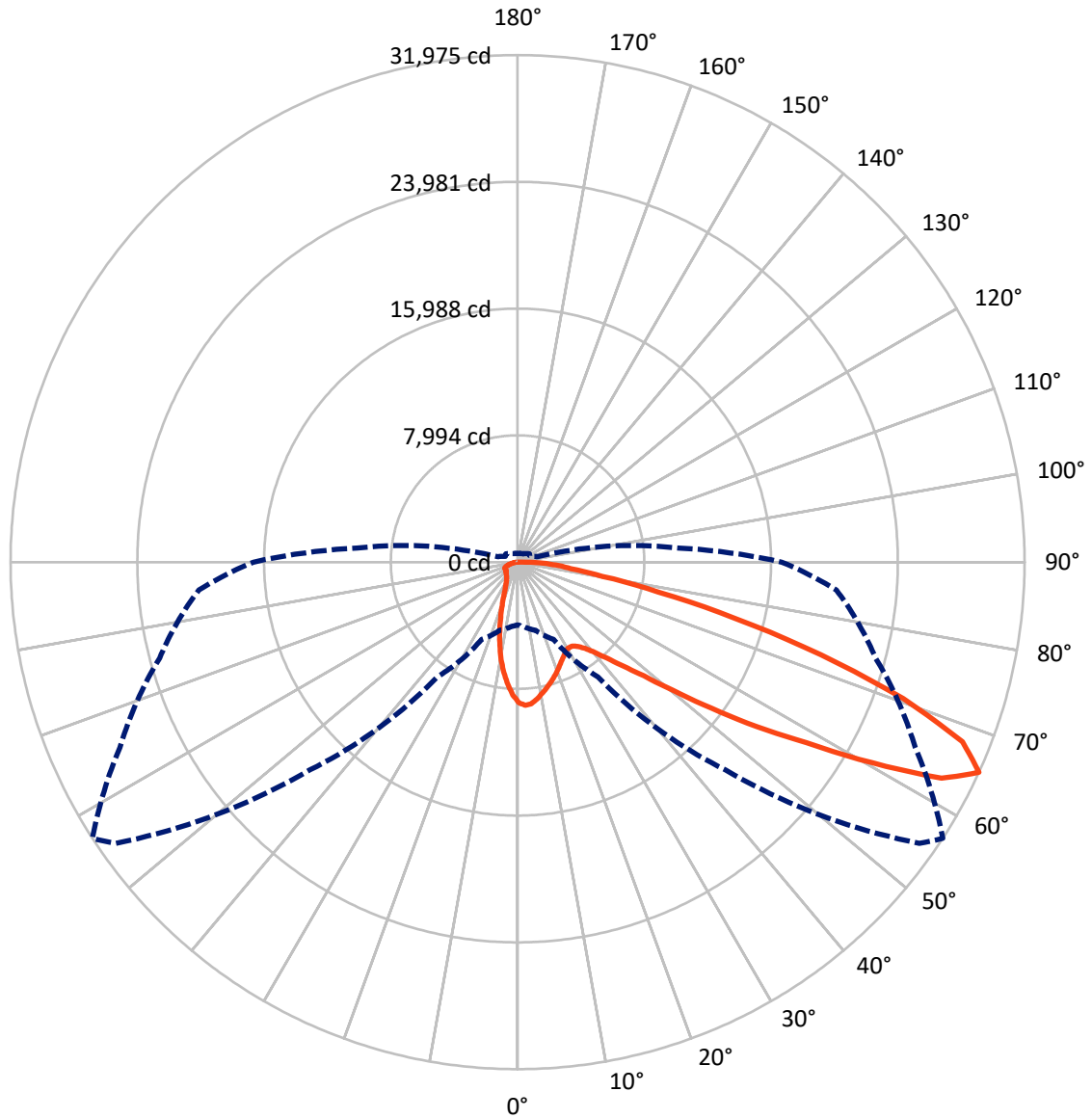
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.8 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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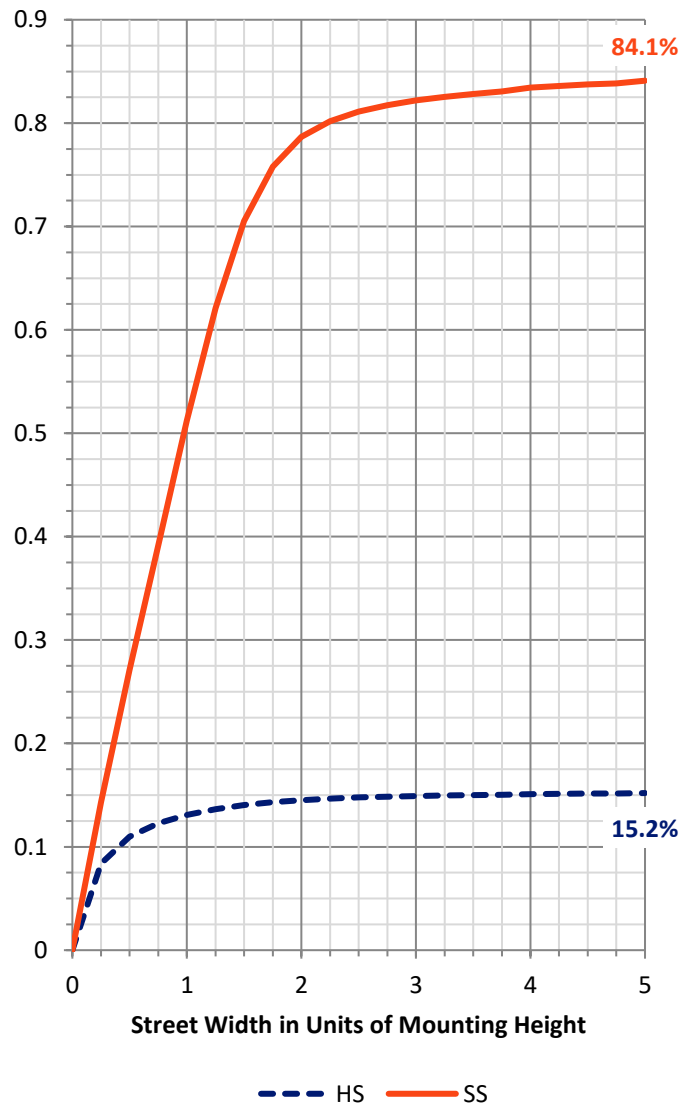
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4941.3	0.0	4941.3
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	27279.3	0.0	27279.3
	% Fixture	84.7	0.0	84.7
Total	Lumens	32220.6	0.0	32220.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	742.0	2.3
10°-20°	1596.9	5.0
20°-30°	2064.6	6.4
30°-40°	2778.2	8.6
40°-50°	4430.0	13.7
50°-60°	7824.5	24.3
60°-70°	8608.0	26.7
70°-80°	3600.9	11.2
80°-90°	575.5	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°	32220.6	100.0
0°-180°	32220.6	100.0

Coefficient of Utilization



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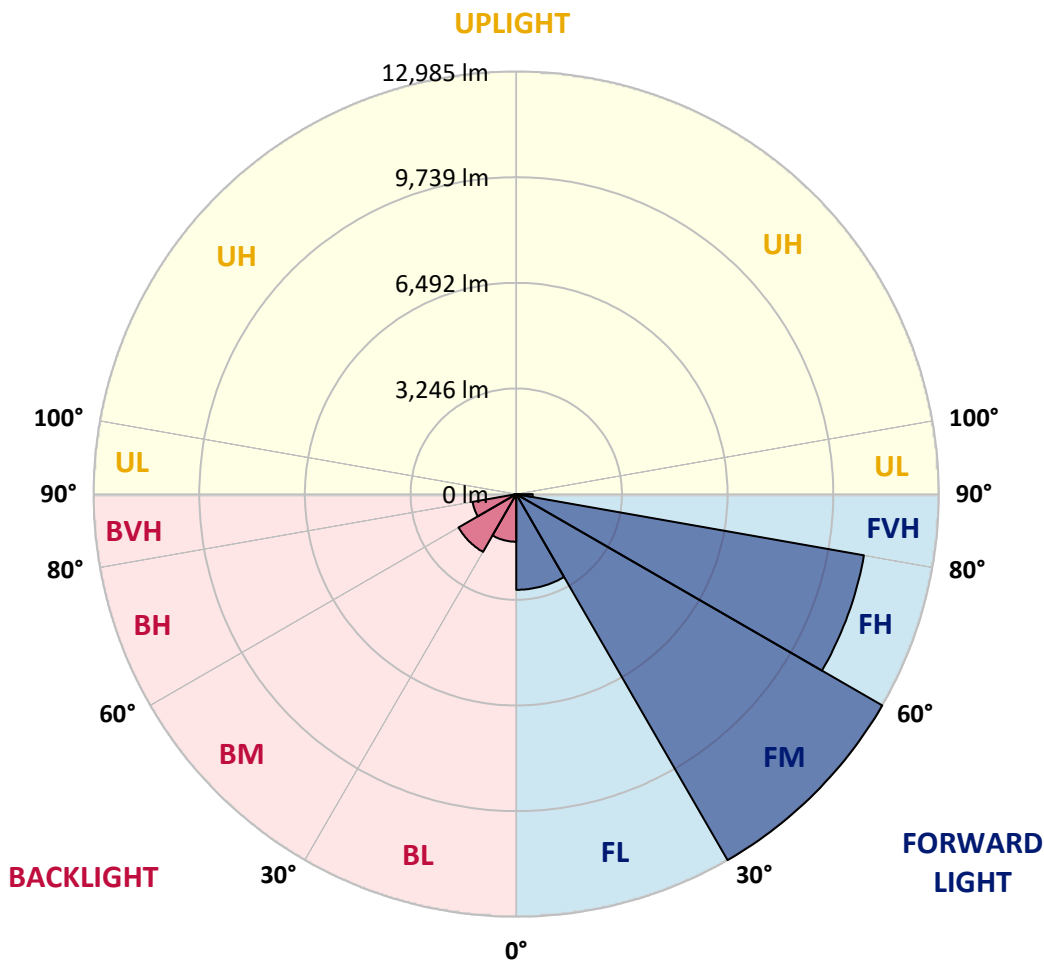
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2940.0	9.1			
FM	(30°-60°)	12984.9	40.3			
FH	(60°-80°)	10846.4	33.7			G4/12000
FVH	(80°-90°)	508.0	1.6			G4/750
BL	(0°-30°)	1463.4	4.5	B3/2500		
BM	(30°-60°)	2048.0	6.4	B2/2500		
BH	(60°-80°)	1362.5	4.2	B3/2500		G3/2500
BVH	(80°-90°)	67.5	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°	8860.2	8860.2	8860.2	8860.2	8860.2	8860.2	8860.2	8860.2	8860.2	8860.2	8860.2
2.5°	9099.5	9114.0	9114.0	9143.0	9045.1	9092.2	9085.0	9041.5	9056.0	8979.9	8903.7
5°	8842.1	8831.2	8889.2	8896.5	8972.6	8994.4	9012.5	8983.5	8990.7	8824.0	8751.5
7.5°	8182.3	8178.7	8276.6	8359.9	8519.4	8668.1	8766.0	8737.0	8776.8	8671.7	8501.3
10°	7399.2	7482.6	7584.1	7667.5	7961.1	8149.7	8403.4	8428.8	8581.1	8555.7	8247.5
12.5°	6811.9	6848.2	6924.3	7163.6	7431.9	7743.6	8106.2	8138.8	8287.4	8359.9	8091.7
15°	6329.8	6362.4	6460.3	6637.9	6938.8	7308.6	7769.0	7852.4	8149.7	8175.0	7888.6
17.5°	5978.1	6003.5	6068.7	6246.4	6492.9	6967.8	7402.9	7551.5	7943.0	8066.3	7678.4
20°	5840.4	5786.0	5822.2	5934.6	6181.1	6547.3	7109.2	7239.7	7740.0	7982.9	7479.0
22.5°	5778.7	5731.6	5753.3	5746.1	5941.9	6202.9	6793.8	6931.6	7547.9	7885.0	7301.3
25°	5825.9	5825.9	5804.1	5786.0	5807.7	5978.1	6453.0	6666.9	7290.5	7801.6	7120.1
27.5°	6079.6	5981.7	5992.6	5916.5	5894.7	5894.7	6300.8	6427.6	7207.1	7754.5	6971.4
30°	6242.8	6289.9	6293.5	6181.1	6068.7	5865.7	6159.4	6282.6	7138.2	7812.5	6884.4
32.5°	6659.7	6637.9	6576.3	6554.5	6387.8	6159.4	6228.3	6311.6	7098.3	7943.0	6909.8
35°	7076.6	7065.7	7069.3	7058.5	6884.4	6547.3	6413.1	6525.5	7170.8	8171.4	6996.8
37.5°	7508.0	7537.0	7660.3	7660.3	7475.4	7109.2	6931.6	6898.9	7435.5	8544.8	7203.5
40°	7939.4	8011.9	8167.8	8414.3	8153.3	7812.5	7526.1	7475.4	7754.5	9045.1	7700.1
42.5°	8352.7	8472.3	8780.5	9146.6	9059.6	8718.8	8338.2	8280.2	8410.7	9788.3	8392.6
45°	8882.0	8983.5	9469.3	10031.2	10150.8	9849.9	9404.0	9356.9	9349.6	10875.9	9346.0
47.5°	9686.8	9795.5	10281.3	10846.9	11216.7	11263.8	10763.5	10712.7	10538.7	12344.1	10741.8
50°	10694.6	10872.3	11281.9	11941.7	12478.3	12982.2	12840.8	12692.2	12351.4	14051.6	12510.9
52.5°	11430.6	11648.1	12202.7	13047.4	13993.6	14794.8	15302.4	15302.4	14519.3	15925.9	14638.9
55°	11626.3	11756.8	12456.5	13678.2	15298.7	17325.3	18387.5	18307.7	17100.5	17898.1	17115.0
57.5°	10846.9	11017.3	11865.6	13145.3	15983.9	19692.6	21450.9	21469.0	19921.0	20189.3	19558.5
60°	8700.7	8755.1	9755.7	11466.8	15324.1	21599.5	25634.5	25703.3	23129.4	22230.3	20801.9
62.5°	6014.4	6188.4	6942.4	8443.3	12695.8	21385.6	29669.4	30010.2	25699.7	23307.0	20997.7
65°	3958.8	4064.0	4466.4	5379.9	8838.5	18536.1	30923.8	31975.1	27664.6	23368.7	20178.4
67.5°	2871.2	2889.4	3009.0	3480.3	5311.1	13330.2	28781.2	30264.0	28400.6	22853.9	18257.0
70°	2320.2	2334.7	2378.2	2679.1	3429.5	8341.8	23473.8	25797.6	26192.8	20414.0	14704.2
72.5°	1885.2	1903.3	1957.7	2240.4	2827.7	4640.4	17165.8	19997.1	21305.9	15103.0	9773.8
75°	1482.7	1497.2	1627.8	1906.9	2657.3	3186.6	11387.1	14160.4	14338.0	8827.6	4575.1
77.5°	1015.1	1040.5	1200.0	1616.9	2501.5	2787.9	7098.3	9070.5	8138.8	3454.9	1573.4
80°	645.3	681.6	775.8	1225.4	2211.4	2661.0	4415.6	5416.2	3563.7	1181.8	757.7
82.5°	380.7	416.9	511.2	793.9	1736.5	2468.8	3110.5	3389.7	1671.3	605.4	456.8
85°	210.3	235.6	308.2	478.5	1018.7	2193.3	2490.6	2432.6	957.1	322.7	286.4
87.5°	68.9	79.8	112.4	192.1	420.5	1033.2	1493.6	1403.0	496.7	148.6	112.4
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°	8860.2	8860.2	8860.2	8860.2	8860.2	8860.2	8860.2	8860.2	8860.2	8860.2	8860.2
2.5°	8853.0	8842.1	8679.0	8555.7	8345.4	8171.4	8102.5	8008.3	8004.7	7935.8	7917.6
5°	8639.1	8526.7	8276.6	8037.3	7663.9	7413.7	7185.3	7025.8	6960.6	6819.2	6786.6
7.5°	8363.6	8214.9	7830.6	7381.1	6942.4	6550.9	6195.6	5840.4	5641.0	5572.1	5495.9
10°	8077.2	7816.1	7247.0	6743.1	6130.4	5528.6	4970.3	4470.0	4198.1	4006.0	3922.6
12.5°	7848.8	7500.7	6775.7	6021.6	5213.2	4408.4	3759.4	3233.8	2925.6	2780.6	2715.3
15°	7591.4	7131.0	6260.9	5307.4	4299.6	3386.0	2751.6	2338.3	2215.1	2146.2	2135.3
17.5°	7319.5	6786.6	5702.6	4604.1	3407.8	2548.6	2138.9	1972.2	1917.8	1888.8	1874.3
20°	7065.7	6478.4	5129.8	3821.1	2668.2	2044.7	1852.5	1765.5	1761.9	1776.4	1772.8
22.5°	6706.8	6076.0	4564.2	3096.0	2131.7	1780.0	1656.8	1635.0	1656.8	1674.9	1682.1
25°	6503.8	5746.1	3933.4	2458.0	1761.9	1580.6	1540.8	1533.5	1566.1	1587.9	1584.3
27.5°	6293.5	5405.3	3346.1	1968.5	1544.4	1439.2	1432.0	1439.2	1471.9	1504.5	1500.9
30°	6130.4	5133.4	2795.1	1645.9	1377.6	1337.7	1330.5	1337.7	1355.9	1359.5	1359.5
32.5°	5996.2	4810.8	2327.4	1428.4	1276.1	1243.5	1250.7	1247.1	1250.7	1254.4	1258.0
35°	5916.5	4618.6	1943.2	1294.2	1192.7	1167.3	1163.7	1152.8	1156.5	1160.1	1156.5
37.5°	6086.9	4524.4	1638.6	1200.0	1134.7	1113.0	1105.7	1098.5	1087.6	1087.6	1087.6
40°	6344.3	4473.6	1453.7	1138.3	1091.2	1065.8	1044.1	1036.8	1036.8	1040.5	1044.1
42.5°	6855.4	4557.0	1326.9	1091.2	1036.8	1007.8	986.1	989.7	1000.6	1011.5	1004.2
45°	7595.0	4810.8	1268.9	1055.0	1004.2	964.3	949.8	946.2	957.1	975.2	989.7
47.5°	8562.9	5205.9	1247.1	1022.3	982.5	928.1	909.9	920.8	935.3	960.7	949.8
50°	10147.2	6094.1	1265.2	993.3	949.8	909.9	888.2	877.3	888.2	906.3	913.6
52.5°	12217.2	7707.4	1334.1	978.8	928.1	895.4	859.2	841.1	851.9	866.4	866.4
55°	14693.3	9911.6	1526.2	960.7	891.8	873.7	833.8	797.6	804.8	804.8	801.2
57.5°	16875.8	11575.6	1754.6	935.3	870.1	844.7	793.9	750.4	743.2	746.8	750.4
60°	17854.6	12017.9	1863.4	928.1	870.1	808.4	739.6	696.1	685.2	677.9	677.9
62.5°	17684.2	11252.9	1642.3	895.4	891.8	779.4	688.8	641.7	627.2	612.7	616.3
65°	16654.6	10161.7	1294.2	851.9	895.4	761.3	638.1	590.9	565.5	547.4	543.8
67.5°	14773.1	8675.3	1026.0	819.3	859.2	728.7	594.5	540.2	518.4	500.3	493.0
70°	11557.4	6801.1	891.8	775.8	772.2	648.9	543.8	496.7	464.0	442.3	442.3
72.5°	7493.5	4299.6	764.9	688.8	667.1	543.8	471.3	442.3	416.9	398.8	398.8
75°	3393.3	1997.5	616.3	576.4	543.8	435.0	398.8	384.3	362.5	344.4	344.4
77.5°	1218.1	851.9	460.4	453.2	406.0	337.2	322.7	311.8	297.3	279.1	279.1
80°	681.6	540.2	344.4	329.9	282.8	250.1	232.0	232.0	224.8	213.9	210.3
82.5°	431.4	351.7	253.8	221.1	184.9	166.8	159.5	155.9	152.3	137.8	134.1
85°	271.9	239.3	166.8	130.5	108.8	83.4	79.8	76.1	68.9	61.6	61.6
87.5°	123.3	137.8	65.3	39.9	29.0	18.1	10.9	3.6	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)