

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: P480435

Luminaire Tested: **IFLD-S-SA6C-730-U-SL3**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480435
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6C-730-U-SL3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens
Light Source: (96) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

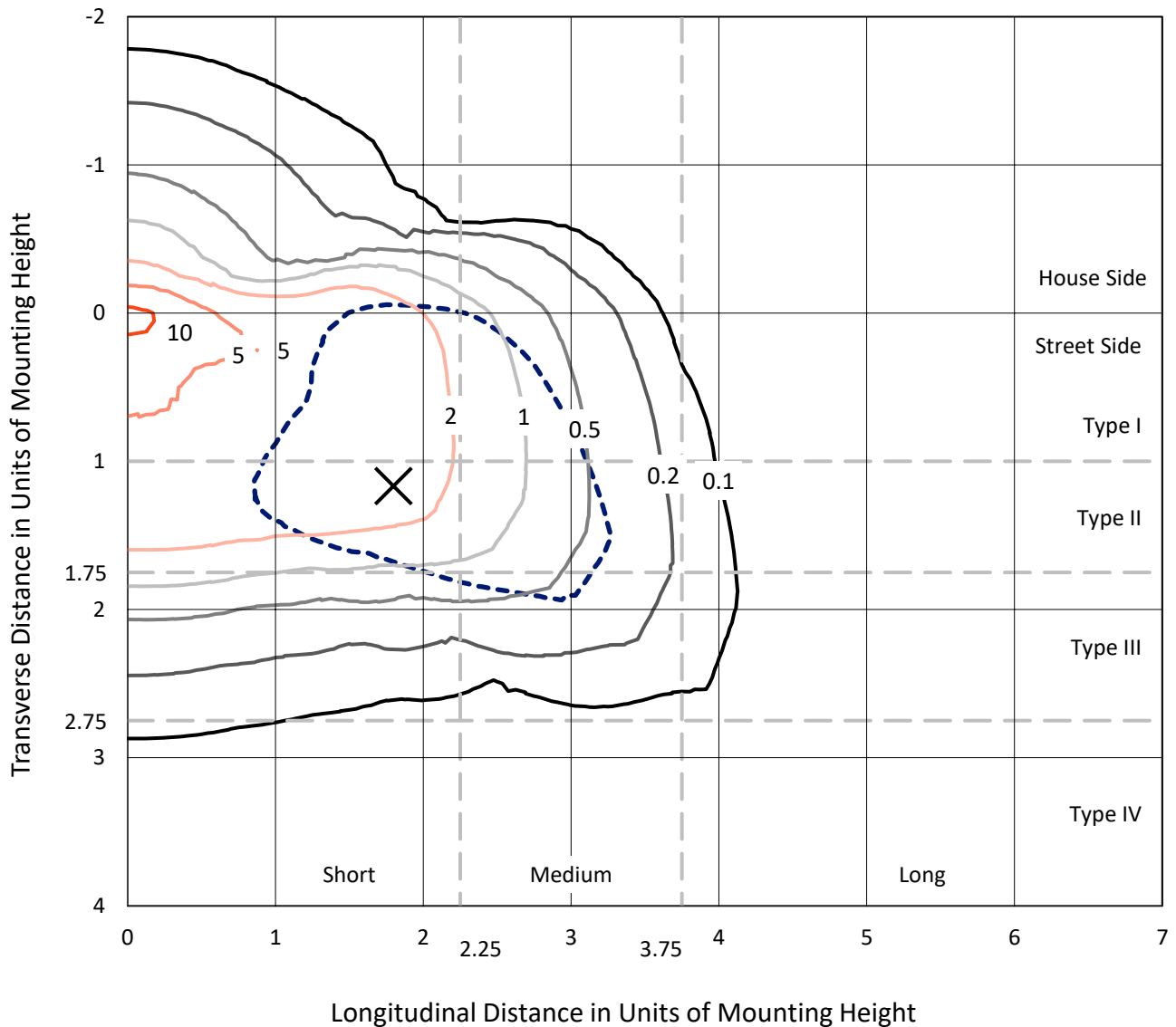
Lumens per Lamp: N/A
Luminaire Lumens: 37334.8 lumens
Efficiency: N/A
Efficacy: 116.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 321.5
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

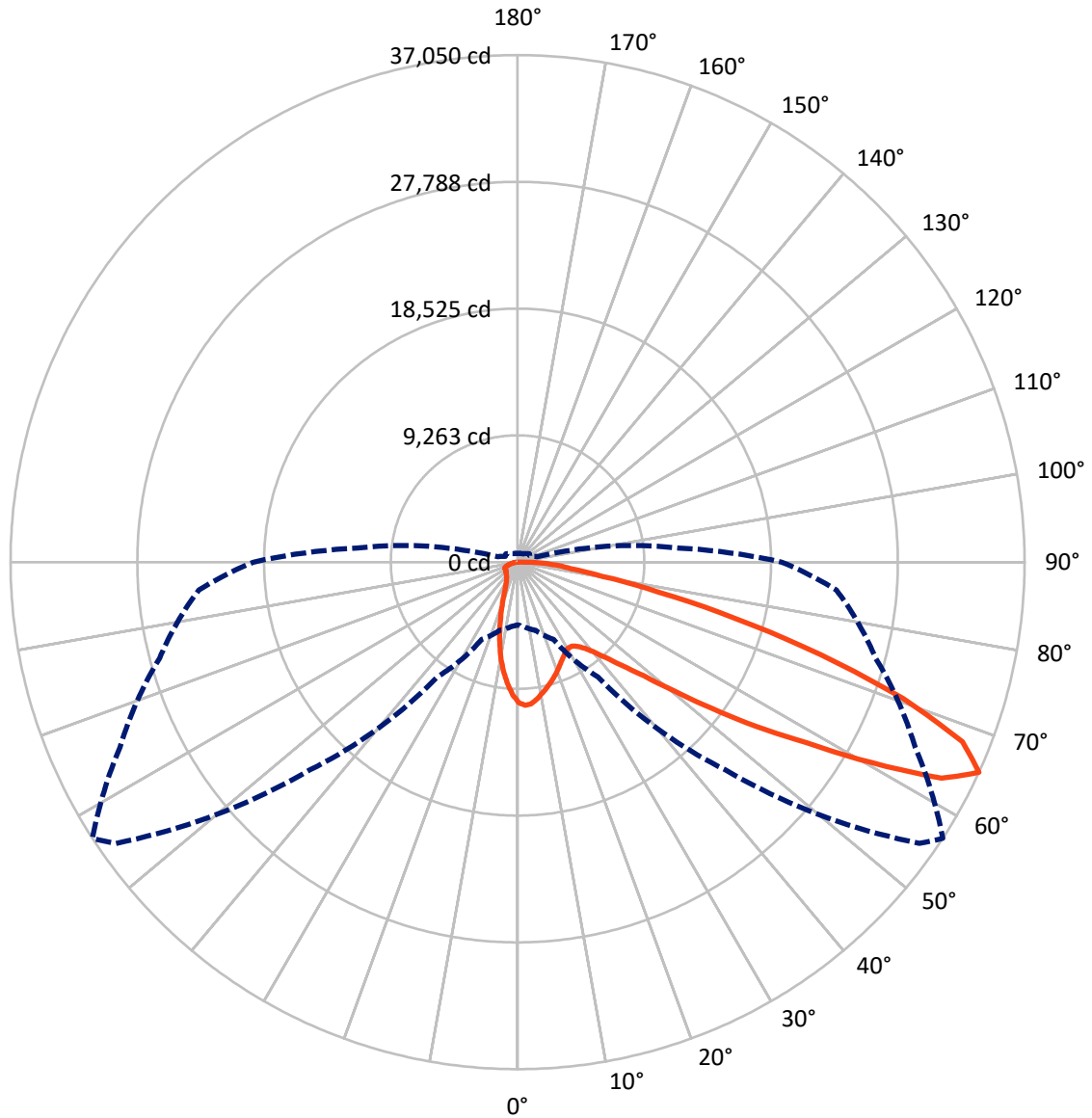
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 11.4 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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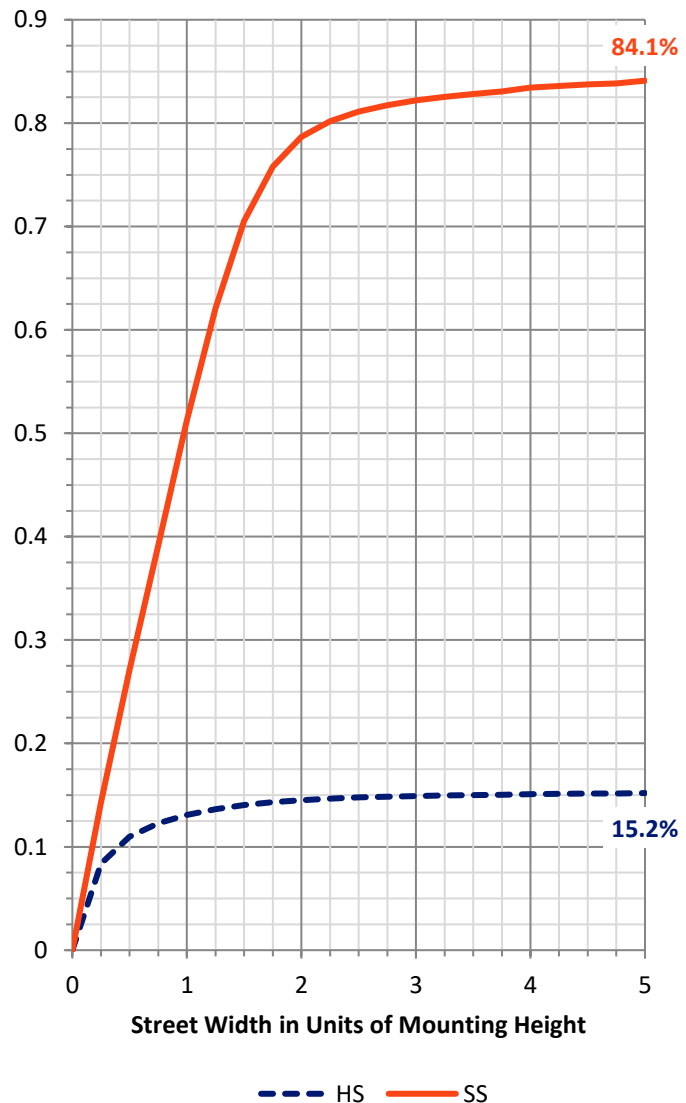
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5725.7	0.0	5725.7
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	31609.2	0.0	31609.2
	% Fixture	84.7	0.0	84.7
Total	Lumens	37334.8	0.0	37334.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	859.7	2.3
10°-20°	1850.3	5.0
20°-30°	2392.3	6.4
30°-40°	3219.2	8.6
40°-50°	5133.2	13.7
50°-60°	9066.5	24.3
60°-70°	9974.3	26.7
70°-80°	4172.4	11.2
80°-90°	666.8	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°	37334.8	100.0
0°-180°	37334.8	100.0

Coefficient of Utilization



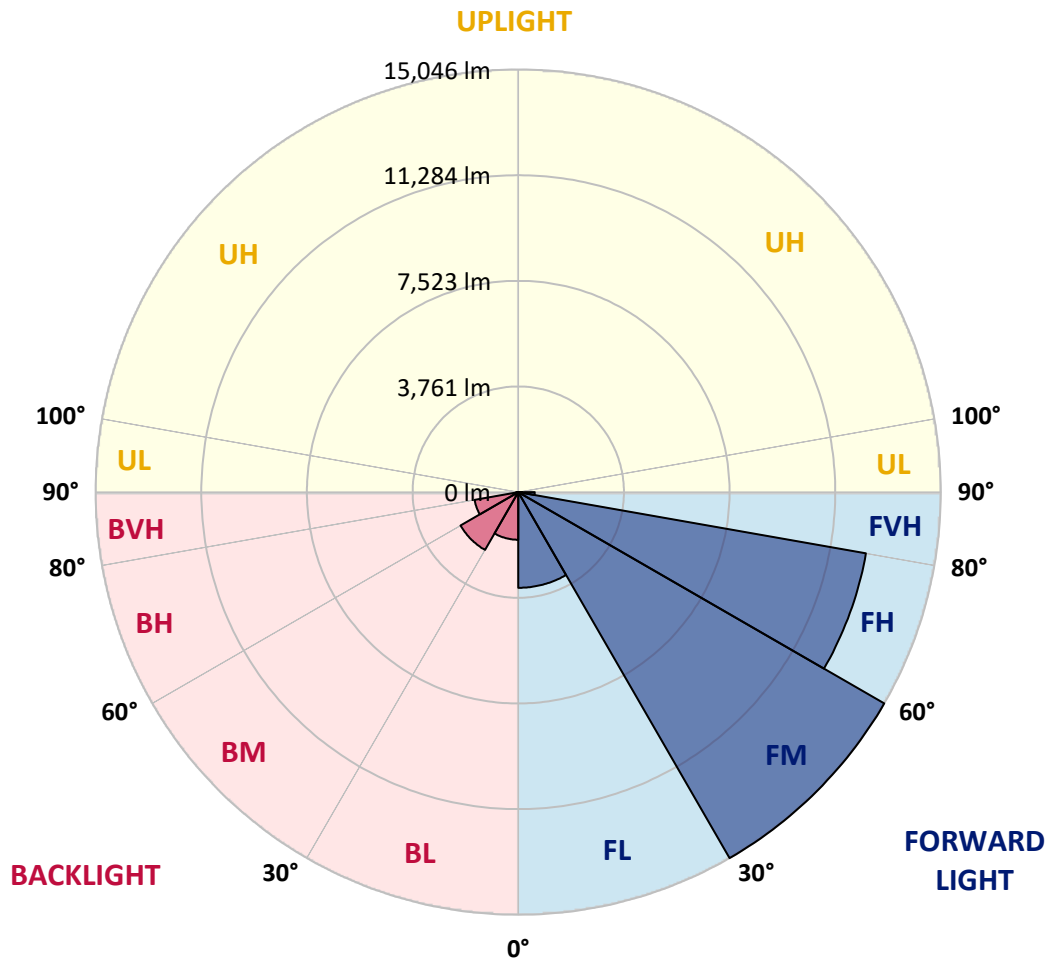
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3406.7	9.1			
FM (30°-60°)	15045.9	40.3			
FH (60°-80°)	12568.0	33.7			G5
FVH (80°-90°)	588.6	1.6			G4/750
BL (0°-30°)	1695.7	4.5	B3/2500		
BM (30°-60°)	2373.0	6.4	B2/2500		
BH (60°-80°)	1578.7	4.2	B3/2500		G3/2500
BVH (80°-90°)	78.2	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	10266.5	10266.5	10266.5	10266.5	10266.5	10266.5	10266.5	10266.5	10266.5	10266.5	10266.5
2.5°	10543.8	10560.6	10560.6	10594.2	10480.8	10535.4	10527.0	10476.6	10493.4	10405.2	10317.0
5°	10245.5	10232.9	10300.2	10308.6	10396.8	10422.0	10443.0	10409.4	10417.8	10224.5	10140.5
7.5°	9481.0	9476.8	9590.2	9686.9	9871.7	10043.9	10157.3	10123.7	10169.9	10048.1	9850.7
10°	8573.7	8670.3	8787.9	8884.5	9224.8	9443.2	9737.3	9766.7	9943.1	9913.7	9556.6
12.5°	7893.1	7935.2	8023.4	8300.6	8611.5	8972.7	9392.8	9430.6	9602.8	9686.9	9376.0
15°	7334.5	7372.3	7485.7	7691.5	8040.2	8468.6	9002.1	9098.8	9443.2	9472.6	9140.8
17.5°	6927.0	6956.4	7032.0	7237.8	7523.5	8073.8	8577.9	8750.1	9203.8	9346.6	8897.1
20°	6767.4	6704.3	6746.3	6876.6	7162.2	7586.5	8237.6	8388.8	8968.5	9250.0	8666.1
22.5°	6695.9	6641.3	6666.5	6658.1	6885.0	7187.4	7872.1	8031.8	8745.9	9136.6	8460.2
25°	6750.6	6750.6	6725.3	6704.3	6729.5	6927.0	7477.3	7725.1	8447.6	9039.9	8250.2
27.5°	7044.6	6931.2	6943.8	6855.6	6830.4	6830.4	7300.8	7447.9	8351.0	8985.3	8078.0
30°	7233.6	7288.2	7292.4	7162.2	7032.0	6796.8	7137.0	7279.8	8271.2	9052.5	7977.2
32.5°	7716.7	7691.5	7620.1	7594.9	7401.7	7137.0	7216.8	7313.4	8225.0	9203.8	8006.6
35°	8199.8	8187.2	8191.4	8178.8	7977.2	7586.5	7431.1	7561.3	8309.0	9468.4	8107.4
37.5°	8699.7	8733.3	8876.1	8876.1	8661.9	8237.6	8031.8	7994.0	8615.7	9901.1	8346.8
40°	9199.6	9283.6	9464.2	9749.9	9447.4	9052.5	8720.7	8661.9	8985.3	10480.8	8922.3
42.5°	9678.4	9817.1	10174.1	10598.4	10497.6	10102.7	9661.6	9594.4	9745.7	11341.9	9724.7
45°	10291.8	10409.4	10972.3	11623.4	11762.0	11413.3	10896.7	10842.0	10833.6	12602.1	10829.4
47.5°	11224.3	11350.3	11913.2	12568.5	12997.0	13051.6	12471.9	12413.1	12211.5	14303.4	12446.7
50°	12392.1	12597.9	13072.6	13837.2	14458.9	15042.8	14878.9	14706.7	14311.8	16282.0	14496.7
52.5°	13244.9	13496.9	14139.6	15118.4	16214.8	17143.1	17731.2	17731.2	16823.9	18453.7	16962.5
55°	13471.7	13622.9	14433.7	15849.3	17727.0	20075.2	21306.0	21213.6	19814.8	20738.9	19831.6
57.5°	12568.5	12766.0	13748.9	15231.8	18521.0	22818.3	24855.6	24876.6	23082.9	23393.8	22662.9
60°	10081.7	10144.7	11304.1	13286.9	17756.4	25027.9	29703.3	29783.1	26800.6	25758.8	24103.7
62.5°	6969.0	7170.6	8044.4	9783.5	14710.9	24780.0	34378.7	34773.5	29778.9	27006.4	24330.5
65°	4587.2	4709.0	5175.3	6233.9	10241.3	21478.3	35832.1	37050.3	32055.7	27077.8	23381.2
67.5°	3327.0	3348.0	3486.6	4032.7	6154.0	15446.0	33349.5	35067.6	32908.4	26481.3	21154.8
70°	2688.5	2705.3	2755.7	3104.3	3973.9	9665.8	27199.6	29892.3	30350.2	23654.2	17038.1
72.5°	2184.4	2205.4	2268.4	2596.0	3276.6	5376.9	19890.4	23171.1	24687.6	17500.2	11325.1
75°	1718.1	1734.9	1886.1	2209.6	3079.1	3692.4	13194.4	16408.0	16613.8	10228.7	5301.3
77.5°	1176.2	1205.6	1390.4	1873.5	2898.5	3230.4	8225.0	10510.2	9430.6	4003.3	1823.1
80°	747.7	789.7	899.0	1419.8	2562.4	3083.3	5116.5	6275.9	4129.3	1369.4	877.9
82.5°	441.1	483.1	592.3	920.0	2012.1	2860.7	3604.2	3927.7	1936.5	701.5	529.3
85°	243.6	273.0	357.1	554.5	1180.4	2541.4	2885.9	2818.7	1109.0	373.9	331.9
87.5°	79.8	92.4	130.2	222.6	487.3	1197.2	1730.7	1625.7	575.5	172.2	130.2
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°	10266.5	10266.5	10266.5	10266.5	10266.5	10266.5	10266.5	10266.5	10266.5	10266.5	10266.5
2.5°	10258.1	10245.5	10056.5	9913.7	9670.0	9468.4	9388.6	9279.4	9275.2	9195.4	9174.4
5°	10010.3	9880.1	9590.2	9313.0	8880.3	8590.5	8325.8	8141.0	8065.4	7901.5	7863.7
7.5°	9691.1	9518.8	9073.5	8552.7	8044.4	7590.7	7179.0	6767.4	6536.3	6456.5	6368.3
10°	9359.2	9056.7	8397.2	7813.3	7103.4	6406.1	5759.2	5179.5	4864.4	4641.8	4545.2
12.5°	9094.6	8691.3	7851.1	6977.4	6040.6	5108.1	4356.1	3747.0	3390.0	3221.9	3146.3
15°	8796.3	8262.8	7254.6	6149.8	4982.0	3923.5	3188.3	2709.5	2566.6	2486.8	2474.2
17.5°	8481.2	7863.7	6607.7	5334.9	3948.7	2953.1	2478.4	2285.2	2222.2	2188.6	2171.8
20°	8187.2	7506.7	5944.0	4427.6	3091.7	2369.2	2146.6	2045.7	2041.5	2058.4	2054.2
22.5°	7771.3	7040.4	5288.7	3587.4	2470.0	2062.6	1919.7	1894.5	1919.7	1940.7	1949.1
25°	7536.1	6658.1	4557.8	2848.1	2041.5	1831.5	1785.3	1776.9	1814.7	1839.9	1835.7
27.5°	7292.4	6263.3	3877.3	2281.0	1789.5	1667.7	1659.3	1667.7	1705.5	1743.3	1739.1
30°	7103.4	5948.2	3238.8	1907.1	1596.3	1550.1	1541.7	1550.1	1571.1	1575.3	1575.3
32.5°	6948.0	5574.4	2696.9	1655.1	1478.7	1440.8	1449.2	1445.0	1449.2	1453.4	1457.6
35°	6855.6	5351.7	2251.6	1499.7	1382.0	1352.6	1348.4	1335.8	1340.0	1344.2	1340.0
37.5°	7053.0	5242.5	1898.7	1390.4	1314.8	1289.6	1281.2	1272.8	1260.2	1260.2	1260.2
40°	7351.3	5183.7	1684.5	1319.0	1264.4	1235.0	1209.8	1201.4	1201.4	1205.6	1209.8
42.5°	7943.6	5280.3	1537.5	1264.4	1201.4	1167.8	1142.6	1146.8	1159.4	1172.0	1163.6
45°	8800.5	5574.4	1470.3	1222.4	1163.6	1117.4	1100.6	1096.4	1109.0	1130.0	1146.8
47.5°	9922.1	6032.2	1445.0	1184.6	1138.4	1075.4	1054.4	1067.0	1083.8	1113.2	1100.6
50°	11757.8	7061.4	1466.0	1151.0	1100.6	1054.4	1029.2	1016.6	1029.2	1050.2	1058.6
52.5°	14156.4	8930.7	1545.9	1134.2	1075.4	1037.6	995.6	974.6	987.2	1004.0	1004.0
55°	17025.5	11484.8	1768.5	1113.2	1033.4	1012.4	966.2	924.2	932.6	932.6	928.4
57.5°	19554.3	13412.9	2033.1	1083.8	1008.2	978.8	920.0	869.5	861.1	865.3	869.5
60°	20688.5	13925.4	2159.2	1075.4	1008.2	936.8	856.9	806.5	793.9	785.5	785.5
62.5°	20491.1	13039.0	1902.9	1037.6	1033.4	903.2	798.1	743.5	726.7	709.9	714.1
65°	19298.1	11774.6	1499.7	987.2	1037.6	882.2	739.3	684.7	655.3	634.3	630.1
67.5°	17117.9	10052.3	1188.8	949.4	995.6	844.3	688.9	625.9	600.7	579.7	571.3
70°	13391.9	7880.5	1033.4	899.0	894.8	751.9	630.1	575.5	537.7	512.5	512.5
72.5°	8682.9	4982.0	886.4	798.1	772.9	630.1	546.1	512.5	483.1	462.1	462.1
75°	3931.9	2314.6	714.1	667.9	630.1	504.1	462.1	445.3	420.1	399.1	399.1
77.5°	1411.4	987.2	533.5	525.1	470.5	390.7	373.9	361.3	344.5	323.5	323.5
80°	789.7	625.9	399.1	382.3	327.7	289.8	268.8	268.8	260.4	247.8	243.6
82.5°	499.9	407.5	294.1	256.2	214.2	193.2	184.8	180.6	176.4	159.6	155.4
85°	315.1	277.2	193.2	151.2	126.0	96.6	92.4	88.2	79.8	71.4	71.4
87.5°	142.8	159.6	75.6	46.2	33.6	21.0	12.6	4.2	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)