

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: P481061

Luminaire Tested: **IFLD-S-SA6E-830-U-SL4**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P481061
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6E-830-U-SL4
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens
Light Source: (96) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

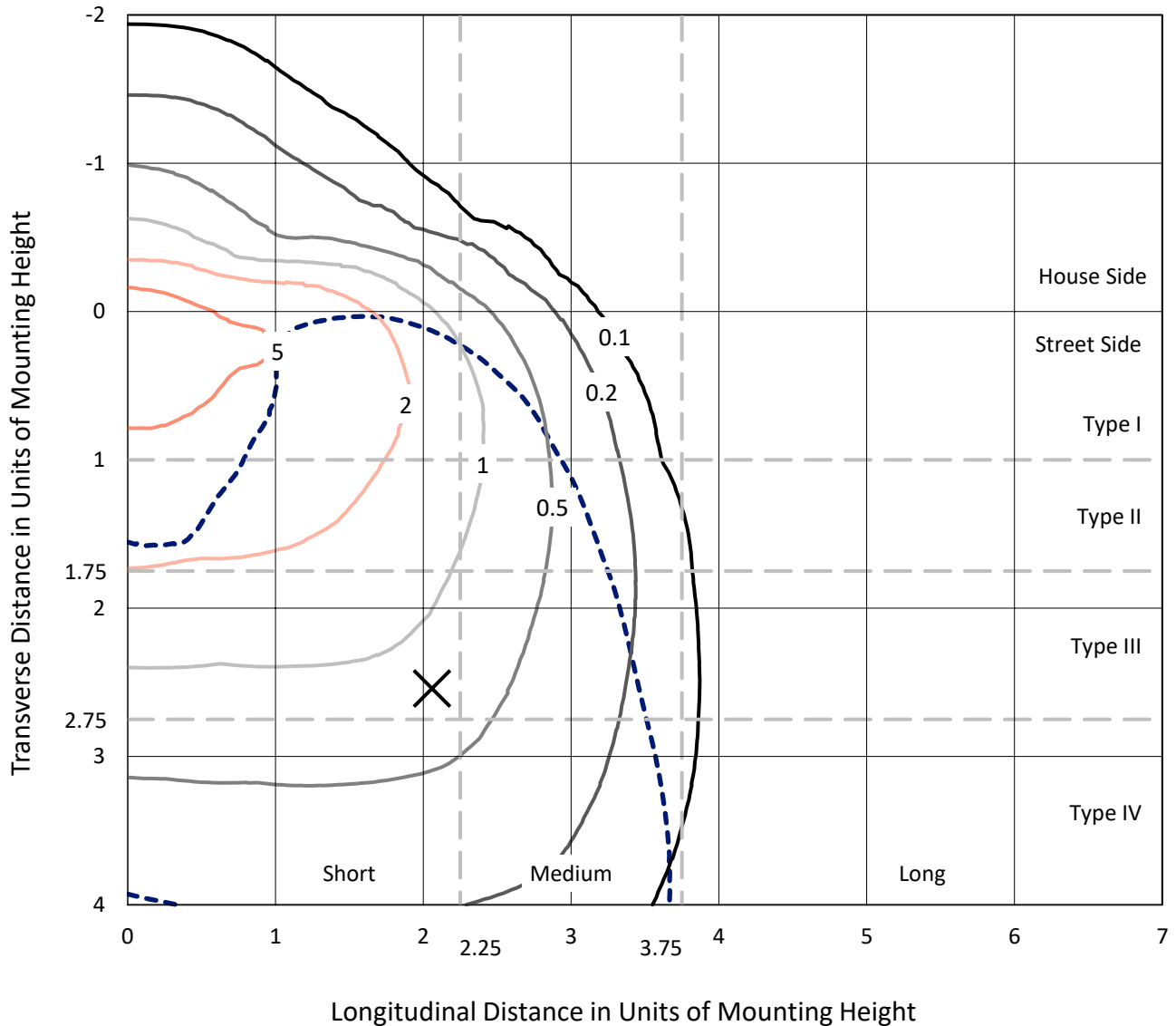
Lumens per Lamp: N/A
Luminaire Lumens: 40668.9 lumens
Efficiency: N/A
Efficacy: 87.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 464.2
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

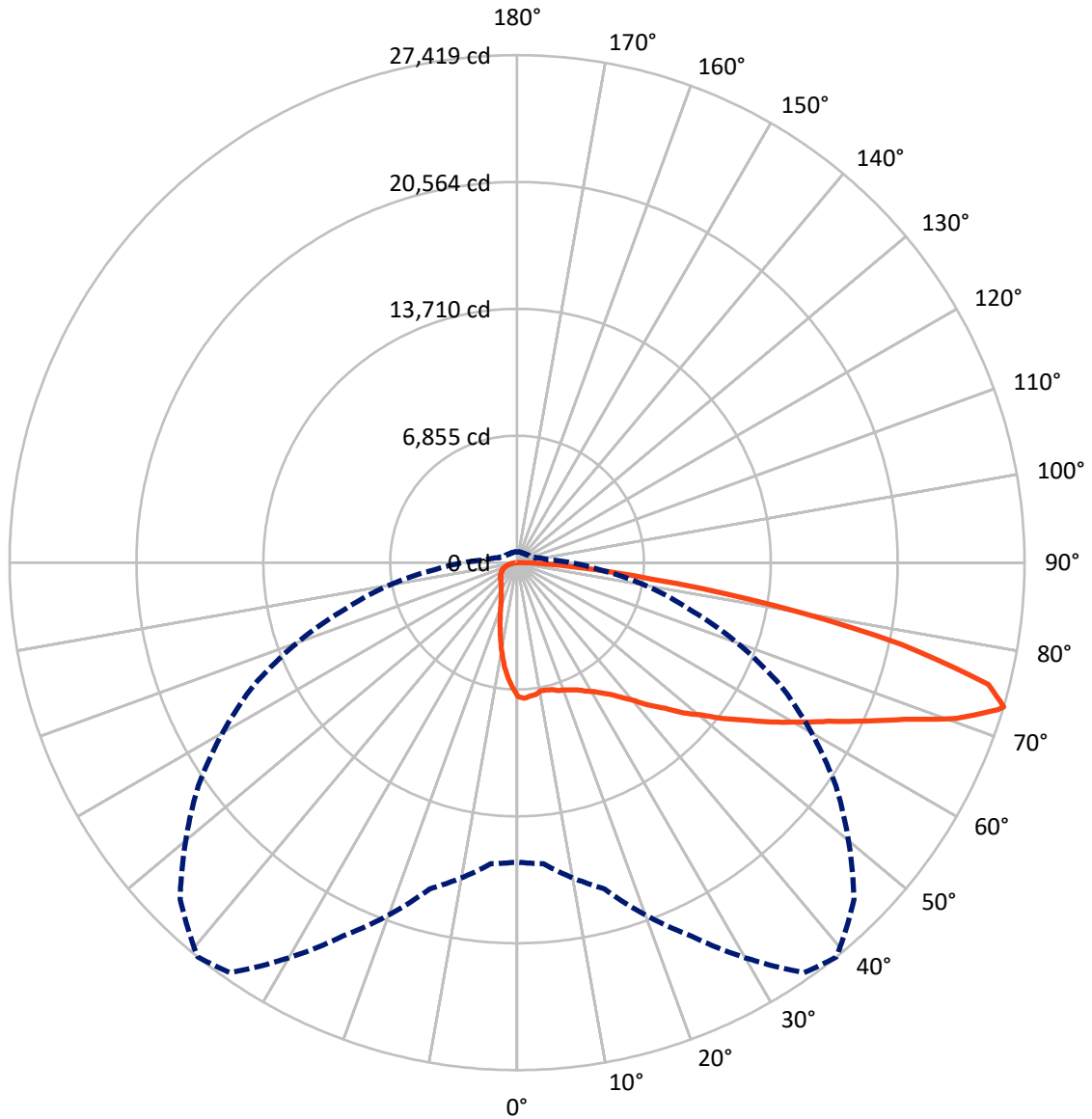
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8 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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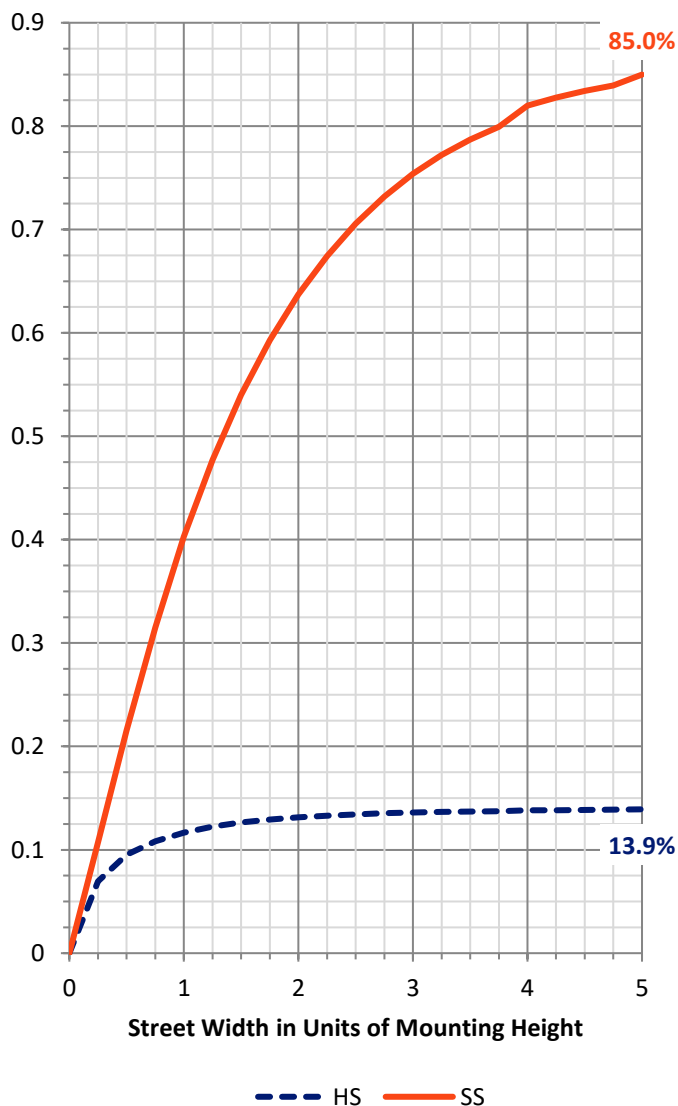
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5716.9	0.0	5716.9
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	34952.0	0.0	34952.0
	% Fixture	85.9	0.0	85.9
Total	Lumens	40668.9	0.0	40668.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	628.4	1.5
10°-20°	1597.6	3.9
20°-30°	2441.2	6.0
30°-40°	3559.4	8.8
40°-50°	5378.6	13.2
50°-60°	7788.6	19.2
60°-70°	9895.8	24.3
70°-80°	8022.0	19.7
80°-90°	1357.3	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°	40668.9	100.0
0°-180°	40668.9	100.0

Coefficient of Utilization



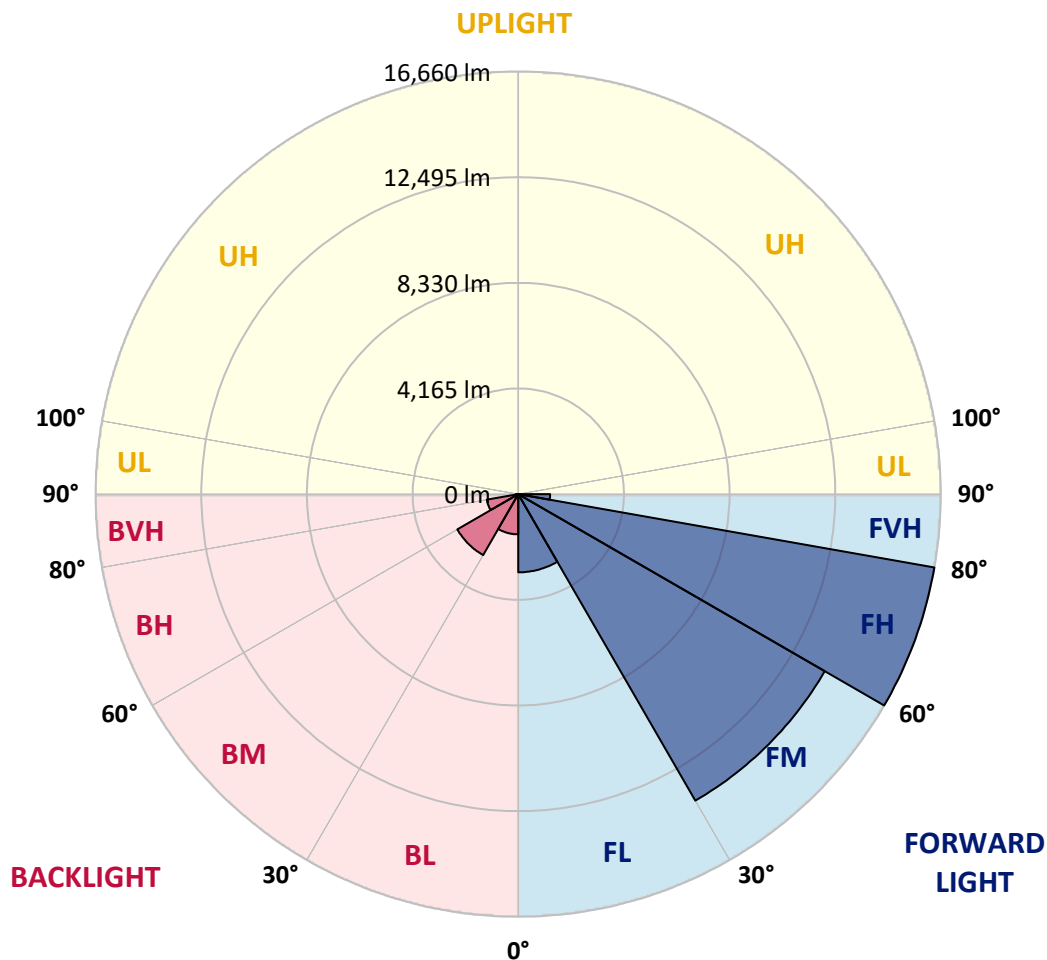
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3081.8	7.6			
FM (30°-60°)	13952.1	34.3			
FH (60°-80°)	16660.4	41.0			G5
FVH (80°-90°)	1257.7	3.1			G5
BL (0°-30°)	1585.4	3.9	B3/2500		
BM (30°-60°)	2774.6	6.8	B3/5000		
BH (60°-80°)	1257.4	3.1	B3/2500		G3/2500
BVH (80°-90°)	99.6	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°	7239.3	7239.3	7239.3	7239.3	7239.3	7239.3	7239.3	7239.3	7239.3	7239.3	7239.3
2.5°	7412.2	7334.9	7348.5	7321.2	7348.5	7339.4	7325.8	7257.5	7325.8	7257.5	7239.3
5°	7312.1	7312.1	7357.6	7289.4	7298.5	7253.0	7298.5	7248.4	7202.9	7089.2	7057.3
7.5°	7280.3	7275.7	7280.3	7184.7	7230.2	7202.9	7157.4	7102.8	7011.8	6939.0	6834.4
10°	7061.9	7107.4	7057.3	7084.6	7121.0	7039.1	7034.6	7020.9	6980.0	6884.4	6820.7
12.5°	6943.6	7020.9	7048.2	7025.5	7057.3	7066.4	7039.1	7020.9	6970.9	6907.2	6725.2
15°	6993.6	6902.6	6980.0	7130.1	7098.3	7121.0	7125.6	7107.4	7084.6	6966.3	6848.0
17.5°	7007.3	6952.7	7116.5	7148.3	7189.3	7271.2	7216.6	7212.0	7125.6	7043.7	6870.8
20°	7039.1	7016.4	7148.3	7316.7	7321.2	7334.9	7362.2	7293.9	7248.4	7107.4	6843.5
22.5°	7157.4	7234.8	7357.6	7430.4	7471.4	7480.5	7480.5	7344.0	7293.9	7180.2	6970.9
25°	7512.3	7430.4	7603.3	7689.8	7630.6	7617.0	7585.1	7462.3	7407.7	7307.6	7030.0
27.5°	7771.7	7767.1	7867.2	7985.5	7826.3	7858.1	7744.4	7708.0	7585.1	7530.5	7134.7
30°	8126.6	8226.7	8222.2	8258.6	8049.2	8085.7	7940.0	7871.8	7803.5	7835.4	7444.1
32.5°	8581.6	8545.2	8604.4	8577.1	8367.8	8399.6	8226.7	8122.1	8144.8	8240.4	7867.2
35°	8872.8	8836.4	8859.2	8859.2	8795.5	8759.1	8686.3	8549.8	8659.0	8836.4	8340.5
37.5°	9186.8	9232.3	9364.2	9336.9	9255.0	9255.0	9245.9	9150.4	9291.4	9728.3	9095.8
40°	9464.4	9587.2	9669.1	9723.7	9819.3	9819.3	9896.6	9842.0	10096.8	10797.6	10019.5
42.5°	9755.6	9760.1	10206.0	10247.0	10460.8	10551.8	10611.0	10656.5	11134.3	11916.9	11006.9
45°	10128.7	10151.4	10542.7	10856.7	11188.9	11220.7	11443.7	11593.8	12180.8	13140.9	12080.7
47.5°	10620.1	10592.8	11011.4	11511.9	11926.0	12144.4	12412.9	12576.7	13300.1	14469.5	13254.6
50°	11266.2	11184.3	11425.5	12212.7	12699.5	12940.7	13418.4	13691.5	14537.8	15739.0	14060.0
52.5°	12053.4	11916.9	12108.0	12968.0	13514.0	14000.9	14455.9	14760.7	15643.5	16721.9	14656.1
55°	12886.1	12604.0	12658.6	13768.8	14556.0	15015.6	15638.9	15957.4	16858.4	17604.6	15252.2
57.5°	13709.7	13532.2	13423.0	14537.8	15798.2	16239.6	16812.9	17226.9	17991.4	18387.2	15757.2
60°	14401.3	14355.8	14178.3	15729.9	17113.2	17490.9	18091.5	18346.3	18924.2	19110.7	15766.3
62.5°	14970.1	14815.4	15097.5	16690.0	18450.9	18878.7	19538.4	19561.2	19970.7	19561.2	15302.2
65°	15416.0	15425.1	15875.5	17850.3	19998.0	20630.5	21162.8	21103.7	20839.8	19292.7	14205.6
67.5°	15820.9	15993.8	16653.6	19124.4	21986.4	22582.5	23174.0	22391.4	21076.4	18036.9	12062.5
70°	16139.5	16312.4	17704.7	20676.0	24329.8	25203.4	25335.3	22901.0	19988.9	15279.5	9100.3
72.5°	16103.1	16417.0	18300.8	21913.6	26409.2	27164.5	26099.8	21467.7	16653.6	10651.9	5310.0
73°	16180.4	16335.1	18250.7	22259.4	27041.7	27419.3	25744.9	21017.2	15707.2	9555.4	4491.0
75°	14687.9	15211.2	17345.2	21695.2	26363.7	26295.4	23706.4	17513.6	11166.1	5018.8	2175.0
77.5°	10865.8	11198.0	13668.7	17841.2	21640.6	21203.8	17882.2	11193.4	5300.9	1861.0	1173.9
80°	5310.0	5569.4	7243.9	10301.6	14151.0	14187.4	11097.9	5824.2	2270.5	1051.1	800.8
82.5°	2652.7	2807.5	3480.9	4527.4	6961.8	7293.9	5628.6	3312.5	1406.0	596.1	455.0
85°	1733.6	1842.8	2143.1	2215.9	2953.1	3116.9	2620.9	2584.5	914.6	323.1	368.6
87.5°	1151.2	1169.4	1315.0	1119.3	1183.0	1137.5	1264.9	1629.0	268.5	136.5	100.1
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°	7239.3	7239.3	7239.3	7239.3	7239.3	7239.3	7239.3	7239.3	7239.3	7239.3	7239.3
2.5°	7216.6	7152.9	7084.6	6989.1	6920.8	6816.2	6720.6	6679.6	6670.5	6675.1	6629.6
5°	7030.0	6939.0	6802.5	6606.8	6493.1	6320.2	6174.6	6097.2	6015.3	6029.0	5992.6
7.5°	6770.7	6670.5	6461.2	6233.7	5951.6	5705.9	5569.4	5378.3	5269.1	5187.2	5232.7
10°	6688.7	6515.8	6201.9	5887.9	5451.1	5128.0	4814.1	4595.7	4445.5	4299.9	4363.6
12.5°	6647.8	6474.9	6038.1	5574.0	5009.7	4518.3	4077.0	3808.5	3594.6	3467.2	3517.3
15°	6611.4	6397.5	5883.4	5228.1	4595.7	3949.5	3453.6	3098.7	2893.9	2771.1	2784.7
17.5°	6661.4	6356.6	5655.9	4891.4	4140.7	3449.0	2898.5	2529.9	2320.6	2243.2	2225.0
20°	6611.4	6311.1	5432.9	4554.7	3685.6	2971.3	2443.4	2138.6	1993.0	1929.3	1915.6
22.5°	6629.6	6201.9	5200.8	4181.6	3262.5	2570.8	2138.6	1906.5	1792.8	1760.9	1770.0
25°	6716.1	6138.2	4968.8	3772.1	2843.9	2275.1	1942.9	1765.5	1683.6	1651.7	1660.8
27.5°	6779.8	6192.8	4759.5	3385.3	2488.9	2011.2	1779.1	1660.8	1606.2	1583.5	1578.9
30°	6939.0	6224.6	4554.7	3039.5	2197.7	1838.3	1665.4	1569.8	1533.4	1519.8	1515.2
32.5°	7175.6	6283.8	4318.1	2721.0	1983.9	1674.5	1574.4	1492.5	1483.4	1469.7	1474.3
35°	7562.4	6488.5	4054.2	2448.0	1779.1	1565.3	1478.8	1424.2	1424.2	1424.2	1437.9
37.5°	8117.5	6775.2	3817.6	2188.6	1647.2	1469.7	1396.9	1378.7	1369.6	1383.3	1392.4
40°	8831.9	7121.0	3626.5	1983.9	1533.4	1406.0	1342.3	1333.2	1328.6	1324.1	1333.2
42.5°	9614.5	7562.4	3462.7	1824.6	1451.5	1337.7	1292.2	1283.1	1264.9	1274.0	1287.7
45°	10392.6	8108.4	3317.1	1697.2	1396.9	1301.3	1237.6	1233.1	1224.0	1219.4	1242.2
47.5°	11257.1	8645.3	3271.6	1619.9	1356.0	1246.7	1201.2	1196.7	1169.4	1164.8	1183.0
50°	11930.5	9041.2	3321.6	1583.5	1296.8	1205.8	1173.9	1151.2	1128.4	1105.7	1105.7
52.5°	12394.7	9314.2	3358.0	1556.2	1264.9	1151.2	1110.2	1101.1	1078.4	1055.6	1046.5
55°	12813.3	9478.0	3367.1	1560.7	1233.1	1087.5	1060.2	1055.6	1042.0	1005.6	996.5
57.5°	12954.3	9409.8	3185.1	1519.8	1214.9	1046.5	1010.1	1019.2	1001.0	969.2	964.6
60°	12940.7	8936.5	2771.1	1465.2	1173.9	1001.0	955.5	982.8	982.8	946.4	941.9
62.5°	12153.5	7844.5	2266.0	1360.5	1128.4	955.5	905.5	946.4	960.1	937.3	932.8
65°	10520.0	6388.4	1892.9	1255.8	1060.2	905.5	855.4	900.9	923.7	914.6	910.0
67.5°	8704.5	4886.9	1574.4	1119.3	973.7	837.2	796.3	828.1	841.8	846.3	850.9
70°	6151.8	3253.4	1315.0	969.2	855.4	764.4	718.9	723.5	718.9	732.6	732.6
72.5°	3344.4	1874.7	1069.3	823.6	737.1	664.3	632.5	609.7	609.7	605.2	605.2
73°	2862.1	1683.6	1019.2	800.8	705.3	646.1	609.7	591.5	591.5	587.0	582.4
75°	1606.2	1233.1	873.6	687.1	609.7	564.2	536.9	509.6	505.1	505.1	505.1
77.5°	1055.6	960.1	696.2	550.6	491.4	450.5	441.4	414.1	414.1	414.1	409.5
80°	791.7	755.3	536.9	418.6	377.7	345.8	336.7	318.5	314.0	295.8	300.3
82.5°	527.8	596.1	391.3	295.8	254.8	236.6	236.6	232.1	218.4	195.7	195.7
85°	418.6	486.9	282.1	182.0	150.2	127.4	132.0	127.4	122.9	100.1	95.6
87.5°	77.4	195.7	81.9	50.1	36.4	22.8	22.8	13.7	9.1	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)