

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: P480952

Luminaire Tested: **IFLD-L-SA7C-750-U-SL4**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480952
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7C-750-U-SL4
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens
Light Source: (112) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

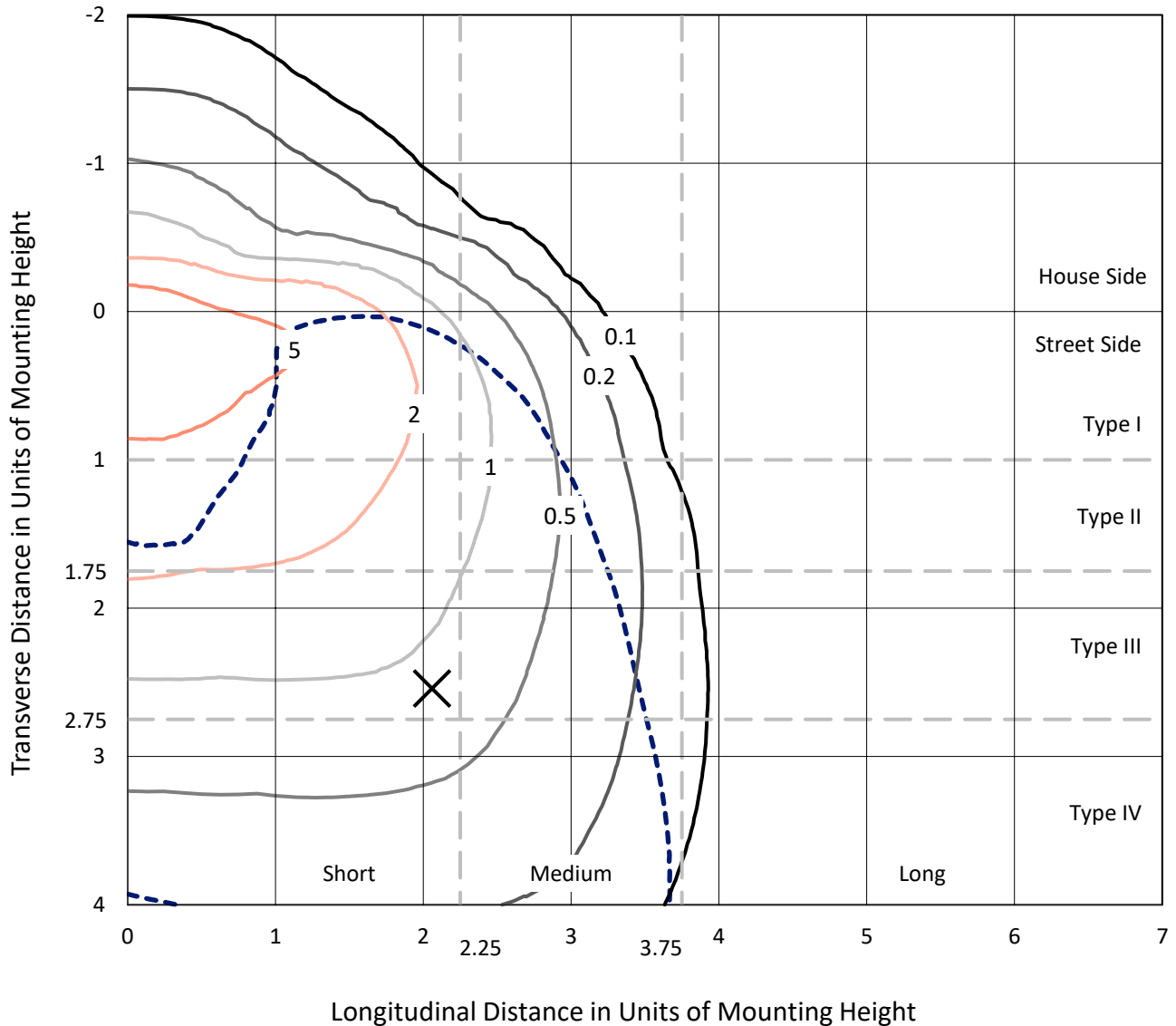
Lumens per Lamp: N/A
Luminaire Lumens: 43862.3 lumens
Efficiency: N/A
Efficacy: 118.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

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

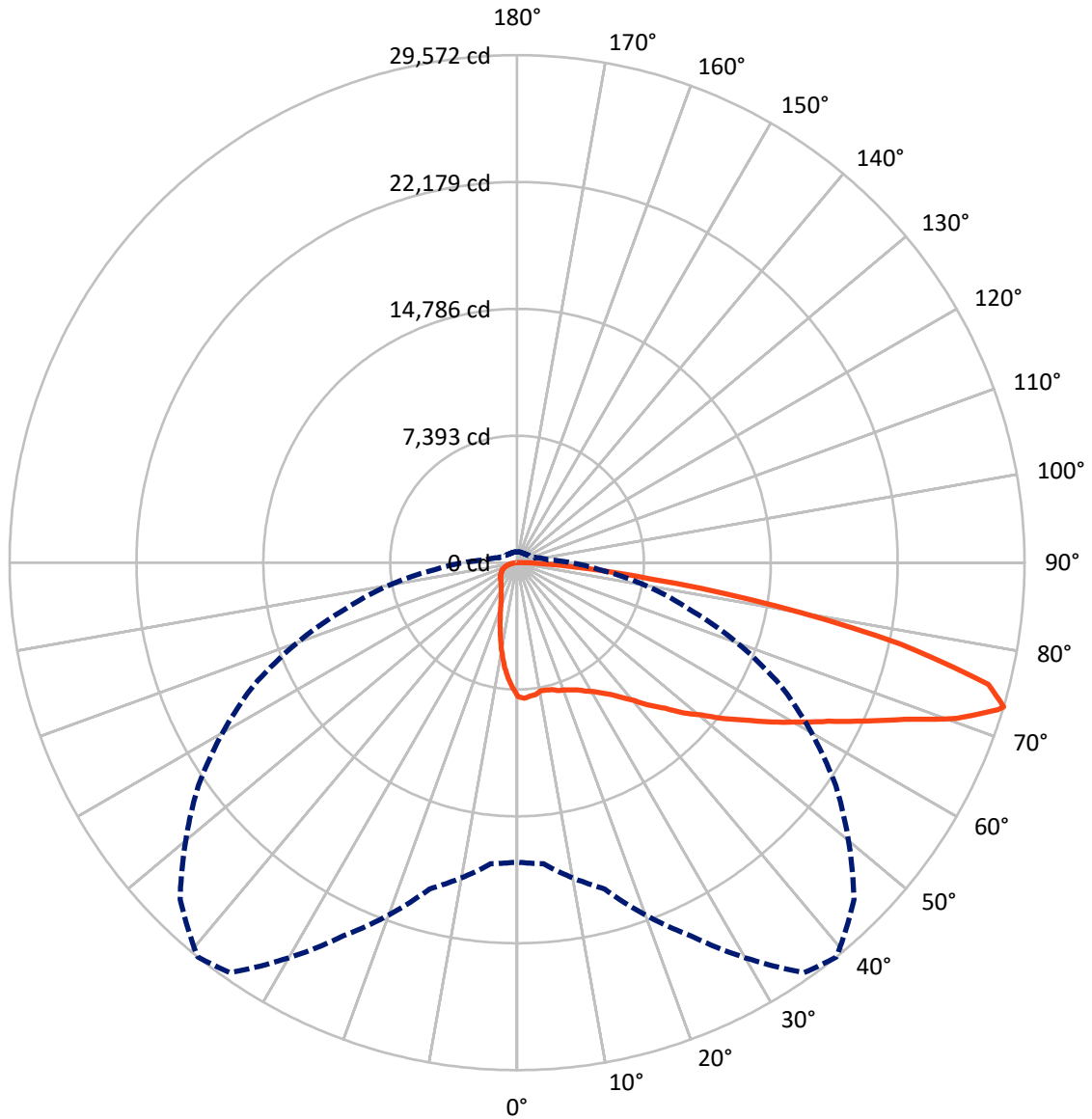
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.7 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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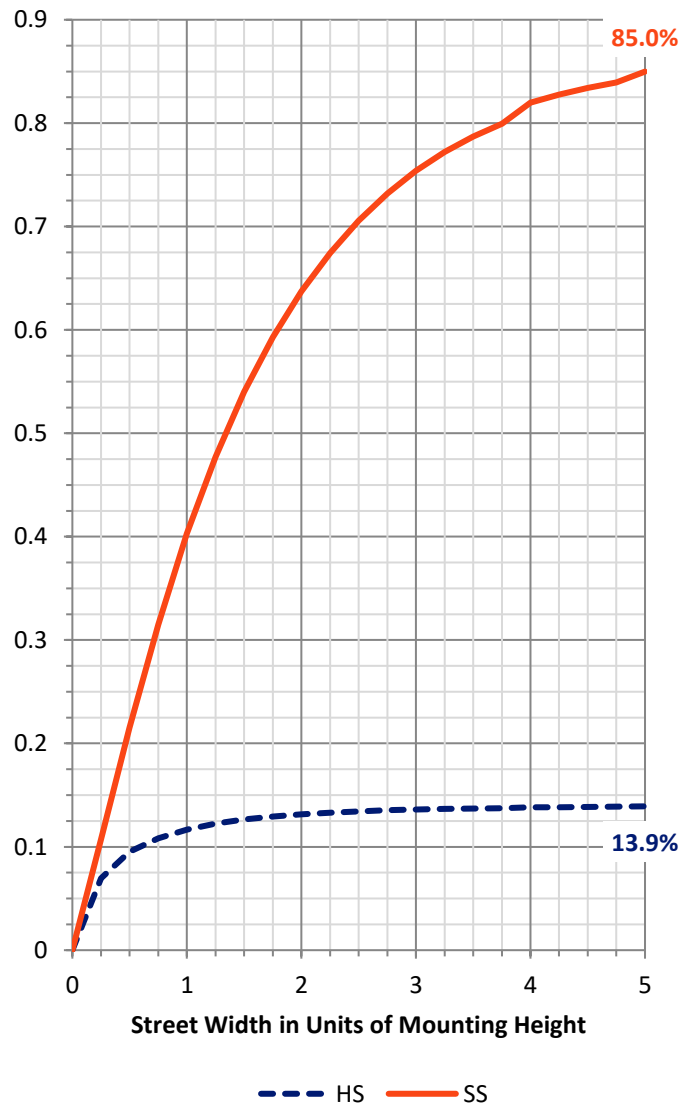
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6165.8	0.0	6165.8
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	37696.5	0.0	37696.5
	% Fixture	85.9	0.0	85.9
Total	Lumens	43862.3	0.0	43862.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	677.8	1.5
10°-20°	1723.0	3.9
20°-30°	2632.9	6.0
30°-40°	3838.9	8.8
40°-50°	5801.0	13.2
50°-60°	8400.1	19.2
60°-70°	10672.8	24.3
70°-80°	8651.9	19.7
80°-90°	1463.9	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°	43862.3	100.0
0°-180°	43862.3	100.0

Coefficient of Utilization



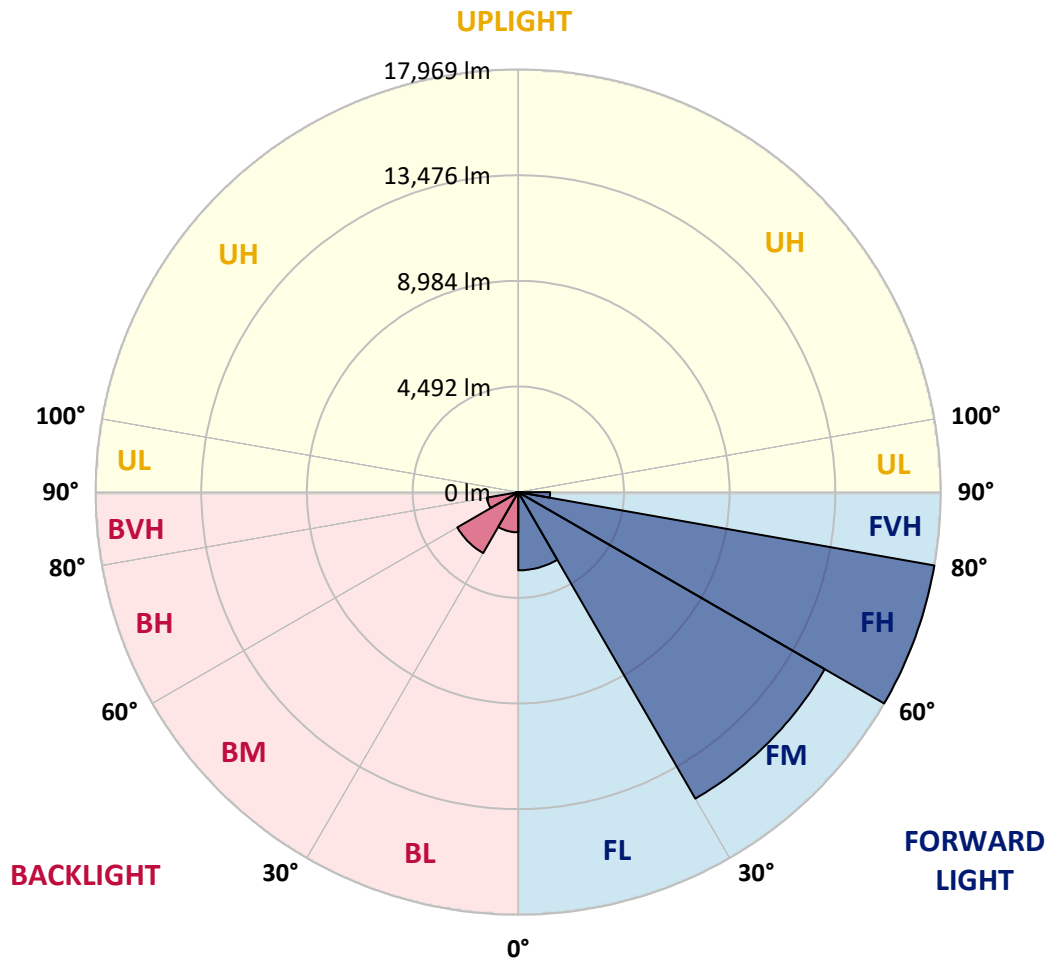
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3323.8	7.6			
FM (30°-60°)	15047.6	34.3			
FH (60°-80°)	17968.6	41.0			G5
FVH (80°-90°)	1356.5	3.1			G5
BL (0°-30°)	1709.9	3.9	B3/2500		
BM (30°-60°)	2992.4	6.8	B3/5000		
BH (60°-80°)	1356.1	3.1	B3/2500		G3/2500
BVH (80°-90°)	107.4	0.2			G2/225
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°	7807.8	7807.8	7807.8	7807.8	7807.8	7807.8	7807.8	7807.8	7807.8	7807.8	7807.8
2.5°	7994.2	7910.8	7925.5	7896.1	7925.5	7915.7	7901.0	7827.4	7901.0	7827.4	7807.8
5°	7886.3	7886.3	7935.4	7861.7	7871.6	7822.5	7871.6	7817.6	7768.5	7645.8	7611.5
7.5°	7851.9	7847.0	7851.9	7748.9	7797.9	7768.5	7719.4	7660.5	7562.4	7483.9	7371.0
10°	7616.4	7665.4	7611.5	7640.9	7680.2	7591.8	7586.9	7572.2	7528.0	7425.0	7356.3
12.5°	7488.8	7572.2	7601.6	7577.1	7611.5	7621.3	7591.8	7572.2	7518.2	7449.5	7253.2
15°	7542.8	7444.6	7528.0	7690.0	7655.6	7680.2	7685.1	7665.4	7640.9	7513.3	7385.7
17.5°	7557.5	7498.6	7675.3	7709.6	7753.8	7842.1	7783.2	7778.3	7685.1	7596.7	7410.3
20°	7591.8	7567.3	7709.6	7891.2	7896.1	7910.8	7940.3	7866.6	7817.6	7665.4	7380.8
22.5°	7719.4	7802.9	7935.4	8013.9	8058.0	8067.9	8067.9	7920.6	7866.6	7744.0	7518.2
25°	8102.2	8013.9	8200.4	8293.6	8229.8	8215.1	8180.7	8048.2	7989.3	7881.4	7582.0
27.5°	8381.9	8377.0	8485.0	8612.6	8440.8	8475.2	8352.5	8313.2	8180.7	8121.8	7694.9
30°	8764.7	8872.7	8867.8	8907.0	8681.3	8720.5	8563.5	8489.9	8416.3	8450.6	8028.6
32.5°	9255.5	9216.2	9280.0	9250.5	9024.8	9059.2	8872.7	8759.8	8784.3	8887.4	8485.0
35°	9569.5	9530.3	9554.8	9554.8	9486.1	9446.8	9368.3	9221.1	9338.9	9530.3	8995.4
37.5°	9908.1	9957.2	10099.5	10070.1	9981.8	9981.8	9971.9	9868.9	10021.0	10492.1	9810.0
40°	10207.5	10340.0	10428.3	10487.2	10590.3	10590.3	10673.7	10614.8	10889.6	11645.4	10806.2
42.5°	10521.6	10526.5	11007.4	11051.6	11282.2	11380.4	11444.2	11493.3	12008.5	12852.6	11871.1
45°	10924.0	10948.5	11370.6	11709.2	12067.4	12101.8	12342.2	12504.2	13137.3	14172.7	13029.3
47.5°	11454.0	11424.6	11876.0	12415.9	12862.4	13098.0	13387.5	13564.2	14344.5	15605.7	14295.4
50°	12150.9	12062.5	12322.6	13171.6	13696.7	13956.8	14472.1	14766.5	15679.3	16974.9	15164.0
52.5°	12999.8	12852.6	13058.7	13986.2	14575.1	15100.2	15591.0	15919.8	16871.8	18034.9	15806.9
55°	13897.9	13593.6	13652.5	14850.0	15698.9	16194.6	16866.9	17210.4	18182.1	18986.9	16449.8
57.5°	14786.2	14594.8	14477.0	15679.3	17038.7	17514.7	18133.0	18579.6	19404.1	19831.0	16994.5
60°	15532.1	15483.0	15291.6	16965.1	18456.9	18864.2	19512.0	19786.9	20410.1	20611.3	17004.3
62.5°	16145.5	15978.7	16282.9	18000.5	19899.7	20361.0	21072.6	21097.1	21538.8	21097.1	16503.8
65°	16626.5	16636.3	17122.1	19251.9	21568.3	22250.4	22824.6	22760.8	22476.1	20807.6	15321.1
67.5°	17063.2	17249.7	17961.3	20626.0	23712.8	24355.7	24993.7	24149.6	22731.3	19453.1	13009.7
70°	17406.7	17593.2	19094.9	22299.5	26240.2	27182.4	27324.7	24699.2	21558.4	16479.2	9814.9
72.5°	17367.5	17706.1	19737.8	23634.3	28482.9	29297.5	28149.2	23153.4	17961.3	11488.3	5727.0
73°	17450.9	17617.8	19683.8	24007.3	29165.0	29572.3	27766.4	22667.5	16940.5	10305.7	4843.7
75°	15841.3	16405.6	18707.2	23398.7	28433.8	28360.2	25567.8	18888.8	12042.9	5412.9	2345.8
77.5°	11719.0	12077.2	14742.0	19242.1	23339.8	22868.7	19286.3	12072.3	5717.2	2007.1	1266.1
80°	5727.0	6006.7	7812.7	11110.5	15262.2	15301.4	11969.3	6281.5	2448.8	1133.6	863.7
82.5°	2861.0	3027.9	3754.2	4882.9	7508.4	7866.6	6070.5	3572.6	1516.4	642.9	490.7
85°	1869.7	1987.5	2311.4	2389.9	3184.9	3361.6	2826.7	2787.4	986.4	348.4	397.5
87.5°	1241.6	1261.2	1418.3	1207.2	1275.9	1226.9	1364.3	1756.9	289.5	147.2	108.0
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°	7807.8	7807.8	7807.8	7807.8	7807.8	7807.8	7807.8	7807.8	7807.8	7807.8	7807.8
2.5°	7783.2	7714.5	7640.9	7537.8	7464.2	7351.4	7248.3	7204.1	7194.3	7199.2	7150.2
5°	7582.0	7483.9	7336.6	7125.6	7002.9	6816.5	6659.4	6576.0	6487.7	6502.4	6463.1
7.5°	7302.3	7194.3	6968.6	6723.2	6418.9	6153.9	6006.7	5800.6	5682.8	5594.5	5643.6
10°	7214.0	7027.5	6688.9	6350.2	5879.1	5530.7	5192.1	4956.5	4794.6	4637.5	4706.2
12.5°	7169.8	6983.3	6512.2	6011.6	5403.1	4873.1	4397.1	4107.5	3876.9	3739.5	3793.5
15°	7130.5	6899.9	6345.3	5638.7	4956.5	4259.7	3724.8	3342.0	3121.1	2988.6	3003.4
17.5°	7184.5	6855.7	6100.0	5275.5	4465.8	3719.8	3126.0	2728.5	2502.8	2419.4	2399.7
20°	7130.5	6806.6	5859.5	4912.4	3975.0	3204.6	2635.3	2306.5	2149.5	2080.8	2066.0
22.5°	7150.2	6688.9	5609.2	4509.9	3518.6	2772.7	2306.5	2056.2	1933.5	1899.2	1909.0
25°	7243.4	6620.2	5358.9	4068.3	3067.2	2453.7	2095.5	1904.1	1815.8	1781.4	1791.2
27.5°	7312.1	6679.0	5133.2	3651.1	2684.4	2169.1	1918.8	1791.2	1732.3	1707.8	1702.9
30°	7483.9	6713.4	4912.4	3278.2	2370.3	1982.6	1796.1	1693.1	1653.8	1639.1	1634.2
32.5°	7739.1	6777.2	4657.2	2934.7	2139.6	1805.9	1698.0	1609.6	1599.8	1585.1	1590.0
35°	8156.2	6998.0	4372.5	2640.2	1918.8	1688.2	1594.9	1536.0	1536.0	1536.0	1550.8
37.5°	8754.9	7307.2	4117.4	2360.5	1776.5	1585.1	1506.6	1487.0	1477.1	1491.9	1501.7
40°	9525.4	7680.2	3911.2	2139.6	1653.8	1516.4	1447.7	1437.9	1433.0	1428.1	1437.9
42.5°	10369.4	8156.2	3734.6	1967.9	1565.5	1442.8	1393.7	1383.9	1364.3	1374.1	1388.8
45°	11208.6	8745.1	3577.5	1830.5	1506.6	1403.5	1334.8	1329.9	1320.1	1315.2	1339.7
47.5°	12141.0	9324.2	3528.5	1747.1	1462.4	1344.6	1295.6	1290.7	1261.2	1256.3	1275.9
50°	12867.3	9751.1	3582.4	1707.8	1398.6	1300.5	1266.1	1241.6	1217.0	1192.5	1192.5
52.5°	13367.9	10045.6	3621.7	1678.3	1364.3	1241.6	1197.4	1187.6	1163.1	1138.5	1128.7
55°	13819.4	10222.2	3631.5	1683.3	1329.9	1172.9	1143.4	1138.5	1123.8	1084.5	1074.7
57.5°	13971.5	10148.6	3435.2	1639.1	1310.3	1128.7	1089.5	1099.3	1079.6	1045.3	1040.4
60°	13956.8	9638.2	2988.6	1580.2	1266.1	1079.6	1030.6	1060.0	1060.0	1020.8	1015.8
62.5°	13107.8	8460.4	2443.9	1467.3	1217.0	1030.6	976.6	1020.8	1035.5	1010.9	1006.0
65°	11346.0	6890.1	2041.5	1354.5	1143.4	976.6	922.6	971.7	996.2	986.4	981.5
67.5°	9388.0	5270.6	1698.0	1207.2	1050.2	903.0	858.8	893.2	907.9	912.8	917.7
70°	6634.9	3508.8	1418.3	1045.3	922.6	824.5	775.4	780.3	775.4	790.1	790.1
72.5°	3607.0	2021.9	1153.3	888.2	795.0	716.5	682.1	657.6	657.6	652.7	652.7
73°	3086.8	1815.8	1099.3	863.7	760.7	696.9	657.6	638.0	638.0	633.1	628.2
75°	1732.3	1329.9	942.2	741.0	657.6	608.5	579.1	549.6	544.7	544.7	544.7
77.5°	1138.5	1035.5	750.8	593.8	530.0	485.8	476.0	446.6	446.6	446.6	441.7
80°	853.9	814.6	579.1	451.5	407.3	373.0	363.2	343.5	338.6	319.0	323.9
82.5°	569.3	642.9	422.0	319.0	274.8	255.2	255.2	250.3	235.6	211.0	211.0
85°	451.5	525.1	304.3	196.3	161.9	137.4	142.3	137.4	132.5	108.0	103.1
87.5°	83.4	211.0	88.3	54.0	39.3	24.5	24.5	14.7	9.8	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)