

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: P480840

Luminaire Tested: **IFLD-L-SA8C-730-U-SL4**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480840
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8C-730-U-SL4
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens
Light Source: (128) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

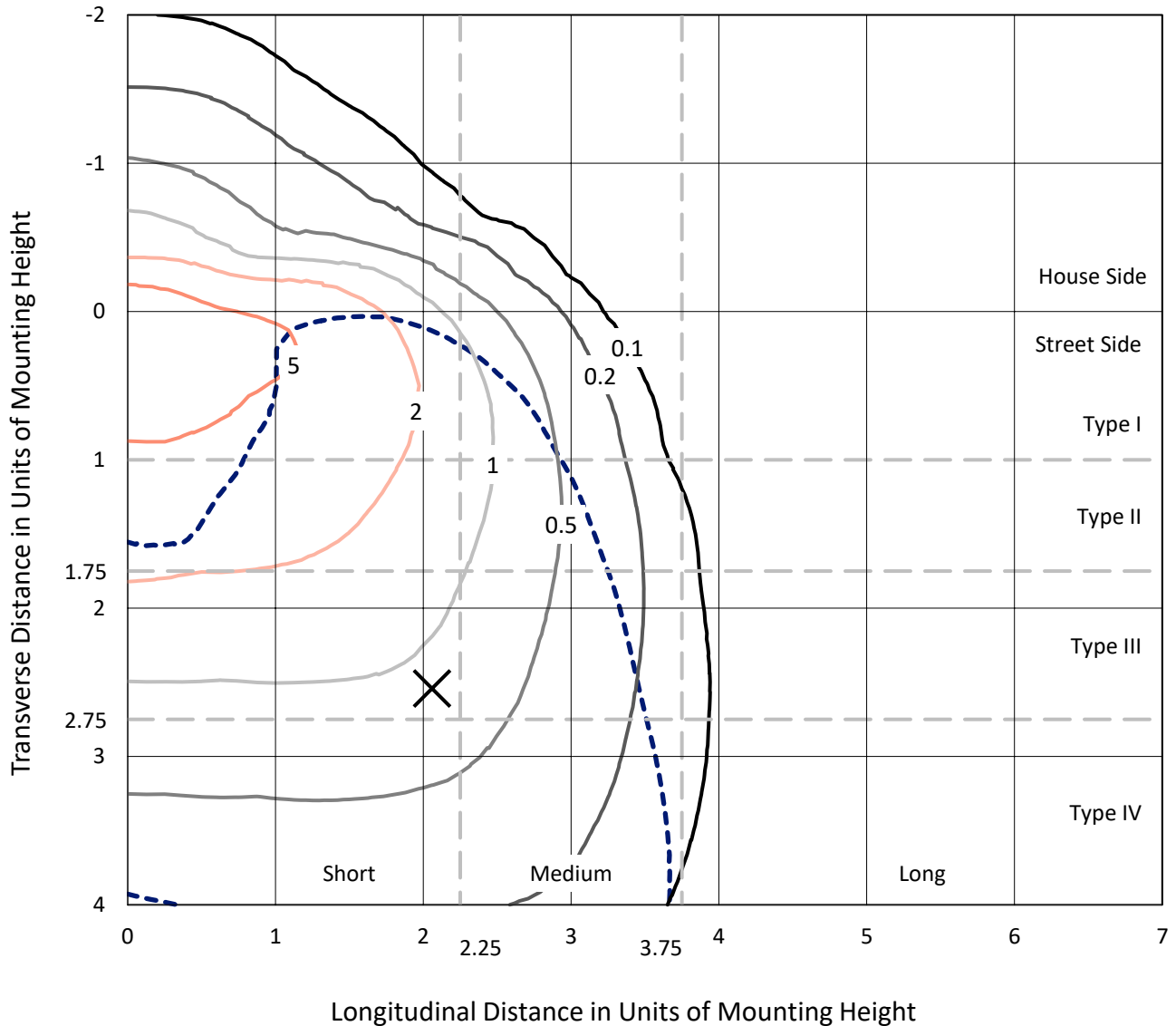
Lumens per Lamp: N/A
Luminaire Lumens: 44625.1 lumens
Efficiency: N/A
Efficacy: 106.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 420.3
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

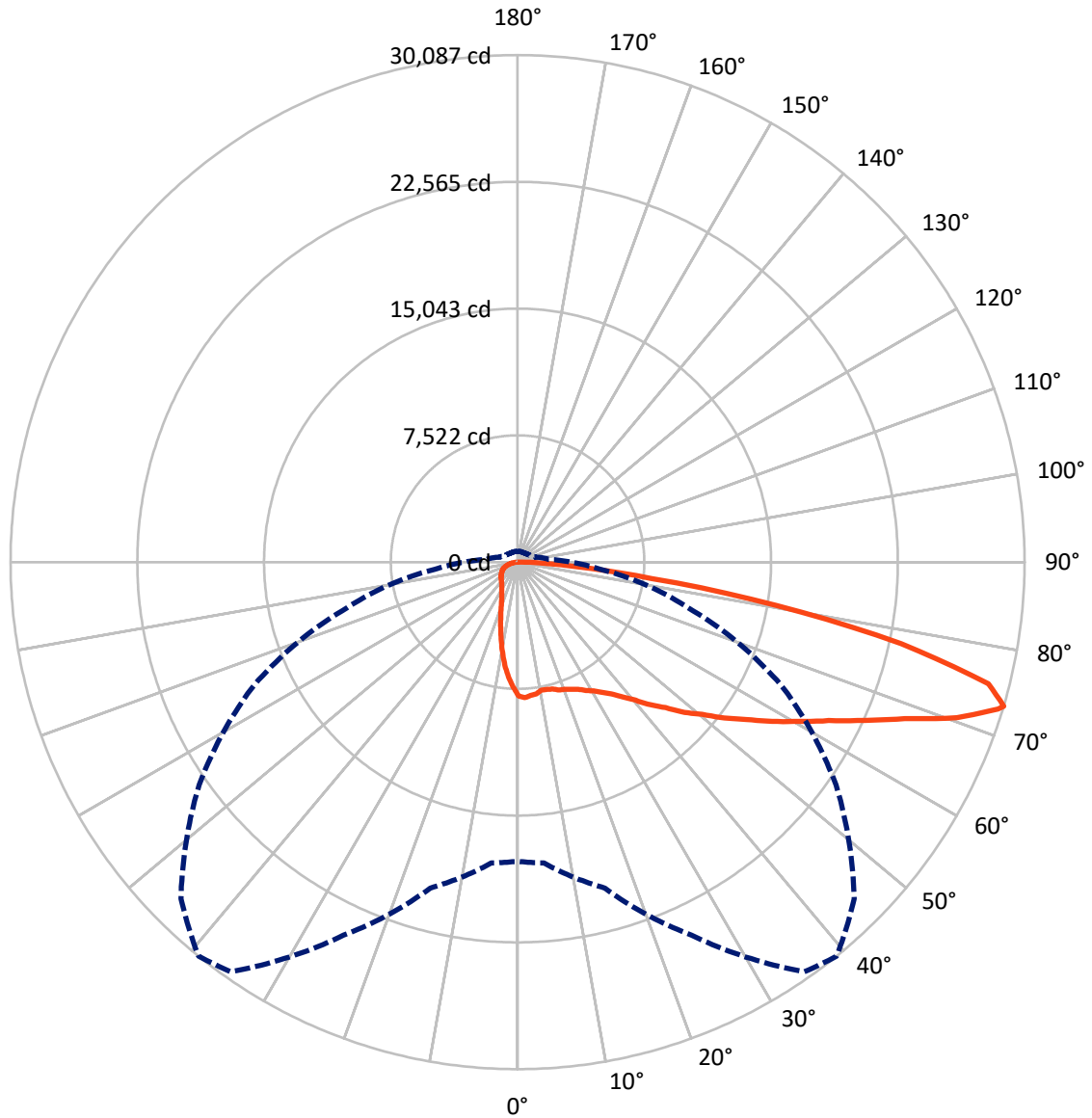
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.8 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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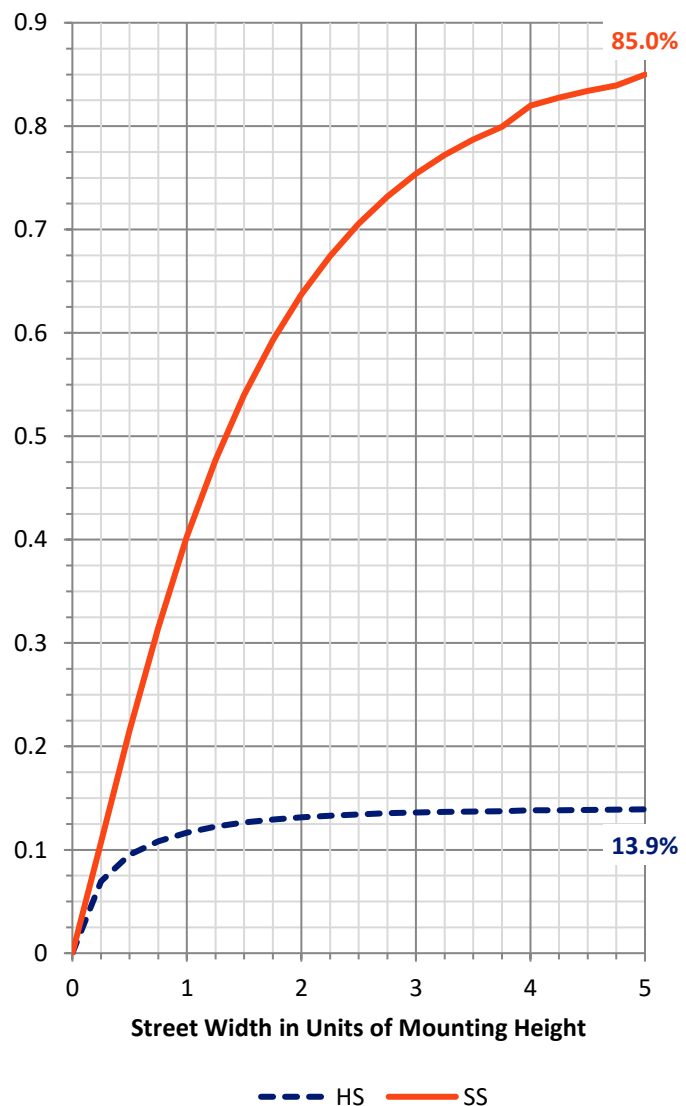
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6273.0	0.0	6273.0
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	38352.0	0.0	38352.0
	% Fixture	85.9	0.0	85.9
Total	Lumens	44625.1	0.0	44625.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	689.6	1.5
10°-20°	1753.0	3.9
20°-30°	2678.7	6.0
30°-40°	3905.7	8.8
40°-50°	5901.9	13.2
50°-60°	8546.2	19.2
60°-70°	10858.4	24.3
70°-80°	8802.4	19.7
80°-90°	1489.3	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°	44625.1	100.0
0°-180°	44625.1	100.0

Coefficient of Utilization



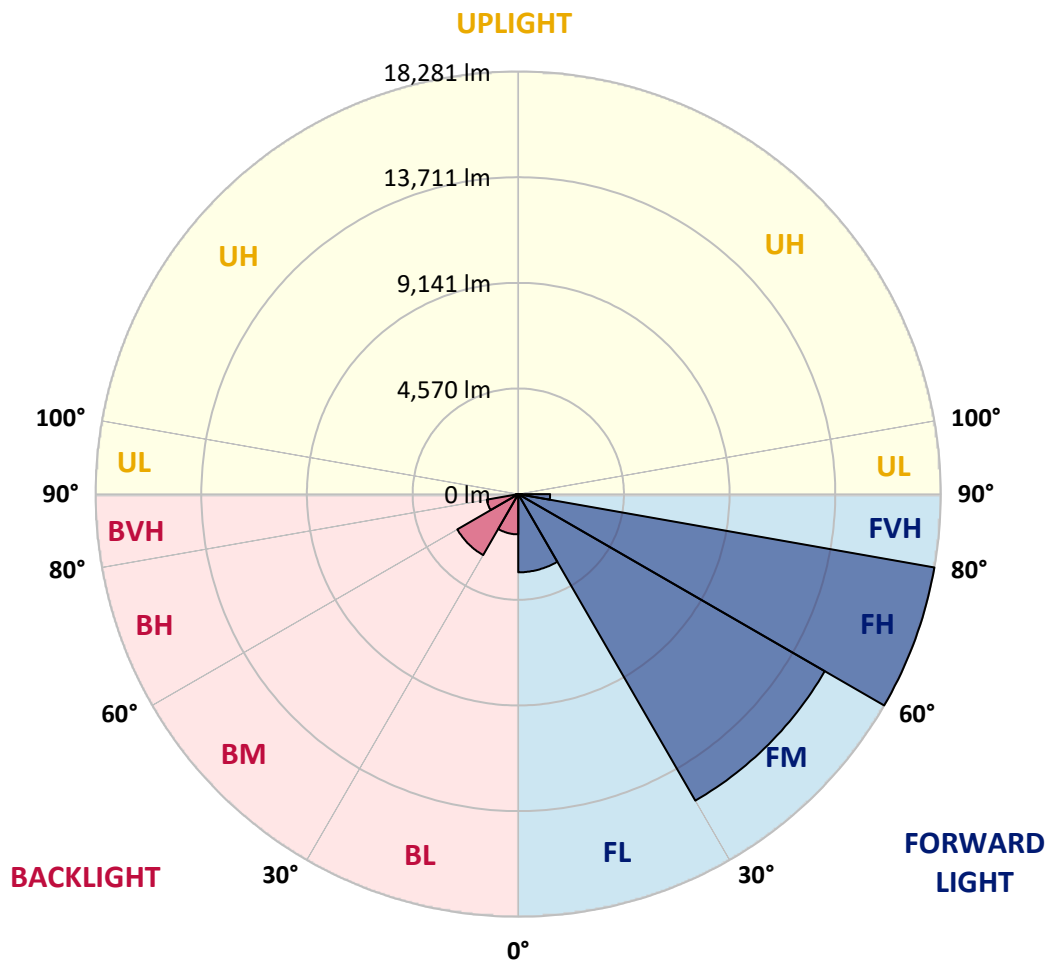
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3381.6	7.6			
FM (30°-60°)	15309.3	34.3			
FH (60°-80°)	18281.1	41.0			G5
FVH (80°-90°)	1380.1	3.1			G5
BL (0°-30°)	1739.6	3.9	B3/2500		
BM (30°-60°)	3044.5	6.8	B3/5000		
BH (60°-80°)	1379.7	3.1	B3/2500		G3/2500
BVH (80°-90°)	109.3	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°	7943.5	7943.5	7943.5	7943.5	7943.5	7943.5	7943.5	7943.5	7943.5	7943.5	7943.5
2.5°	8133.3	8048.4	8063.4	8033.4	8063.4	8053.4	8038.4	7963.5	8038.4	7963.5	7943.5
5°	8023.4	8023.4	8073.3	7998.5	8008.4	7958.5	8008.4	7953.5	7903.6	7778.8	7743.8
7.5°	7988.5	7983.5	7988.5	7883.6	7933.6	7903.6	7853.7	7793.8	7693.9	7614.0	7499.2
10°	7748.8	7798.7	7743.8	7773.8	7813.7	7723.9	7718.9	7703.9	7658.9	7554.1	7484.2
12.5°	7619.0	7703.9	7733.8	7708.9	7743.8	7753.8	7723.9	7703.9	7649.0	7579.1	7379.4
15°	7673.9	7574.1	7658.9	7823.7	7788.8	7813.7	7818.7	7798.7	7773.8	7644.0	7514.2
17.5°	7688.9	7629.0	7808.7	7843.7	7888.6	7978.5	7918.6	7913.6	7818.7	7728.8	7539.1
20°	7723.9	7698.9	7843.7	8028.4	8033.4	8048.4	8078.3	8003.5	7953.5	7798.7	7509.2
22.5°	7853.7	7938.5	8073.3	8153.2	8198.2	8208.2	8208.2	8058.4	8003.5	7878.6	7649.0
25°	8243.1	8153.2	8343.0	8437.8	8372.9	8357.9	8323.0	8188.2	8128.3	8018.4	7713.9
27.5°	8527.7	8522.7	8632.5	8762.4	8587.6	8622.6	8497.7	8457.8	8323.0	8263.1	7828.7
30°	8917.1	9027.0	9022.0	9061.9	8832.3	8872.2	8712.4	8637.5	8562.6	8597.6	8168.2
32.5°	9416.4	9376.5	9441.4	9411.4	9181.8	9216.7	9027.0	8912.1	8937.1	9042.0	8632.5
35°	9736.0	9696.0	9721.0	9721.0	9651.1	9611.1	9531.2	9381.5	9501.3	9696.0	9151.8
37.5°	10080.5	10130.4	10275.2	10245.2	10155.3	10155.3	10145.4	10040.5	10195.3	10674.6	9980.6
40°	10385.0	10519.8	10609.7	10669.6	10774.5	10774.5	10859.3	10799.4	11079.0	11847.9	10994.1
42.5°	10704.6	10709.5	11198.8	11243.8	11478.4	11578.3	11643.2	11693.1	12217.4	13076.1	12077.6
45°	11114.0	11138.9	11568.3	11912.8	12277.3	12312.2	12556.9	12721.6	13365.7	14419.2	13255.9
47.5°	11653.2	11623.2	12082.6	12631.8	13086.1	13325.8	13620.3	13800.1	14593.9	15877.1	14544.0
50°	12362.2	12272.3	12536.9	13400.7	13934.9	14199.5	14723.8	15023.3	15952.0	17270.1	15427.7
52.5°	13225.9	13076.1	13285.8	14229.5	14828.6	15362.8	15862.1	16196.6	17165.2	18348.5	16081.8
55°	14139.6	13830.0	13890.0	15108.2	15972.0	16476.2	17160.2	17509.7	18498.3	19317.1	16735.8
57.5°	15043.3	14848.6	14728.7	15952.0	17335.0	17819.3	18448.4	18902.7	19741.5	20175.9	17290.0
60°	15802.2	15752.3	15557.5	17260.1	18777.9	19192.3	19851.4	20131.0	20765.0	20969.7	17300.0
62.5°	16426.3	16256.5	16566.1	18313.6	20245.8	20715.1	21439.1	21464.0	21913.4	21464.0	16790.8
65°	16915.6	16925.6	17419.9	19586.7	21943.3	22637.3	23221.5	23156.6	22867.0	21169.5	15587.5
67.5°	17359.9	17549.7	18273.6	20984.7	24125.2	24779.2	25428.3	24569.5	23126.6	19791.4	13235.9
70°	17709.4	17899.2	19427.0	22687.3	26696.5	27655.1	27799.9	25128.7	21933.3	16765.8	9985.6
72.5°	17669.5	18014.0	20081.0	24045.3	28978.2	29807.0	28638.7	23556.0	18273.6	11688.1	5826.6
73°	17754.4	17924.1	20026.1	24424.8	29672.2	30086.6	28249.2	23061.7	17235.1	10484.9	4927.9
75°	16116.7	16690.9	19032.5	23805.6	28928.3	28853.4	26012.5	19217.3	12252.3	5507.1	2386.6
77.5°	11922.8	12287.3	14998.4	19576.8	23745.7	23266.4	19621.7	12282.3	5816.6	2042.1	1288.1
80°	5826.6	6111.2	7948.5	11303.7	15527.6	15567.5	12177.4	6390.8	2491.4	1153.3	878.7
82.5°	2910.8	3080.6	3819.5	4967.8	7639.0	8003.5	6176.1	3634.8	1542.8	654.1	499.3
85°	1902.3	2022.1	2351.6	2431.5	3240.3	3420.1	2875.9	2835.9	1003.6	354.5	404.4
87.5°	1263.2	1283.1	1442.9	1228.2	1298.1	1248.2	1388.0	1787.4	294.6	149.8	109.8
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°	7943.5	7943.5	7943.5	7943.5	7943.5	7943.5	7943.5	7943.5	7943.5	7943.5	7943.5
2.5°	7918.6	7848.7	7773.8	7668.9	7594.0	7479.2	7374.4	7329.4	7319.4	7324.4	7274.5
5°	7713.9	7614.0	7464.2	7249.5	7124.7	6935.0	6775.2	6690.3	6600.5	6615.5	6575.5
7.5°	7429.3	7319.4	7089.8	6840.1	6530.6	6261.0	6111.2	5901.5	5781.7	5691.8	5741.7
10°	7339.4	7149.7	6805.2	6460.7	5981.4	5626.9	5282.4	5042.7	4878.0	4718.2	4788.1
12.5°	7294.5	7104.7	6625.4	6116.2	5497.1	4957.8	4473.5	4179.0	3944.3	3804.5	3859.4
15°	7254.5	7019.9	6455.7	5736.7	5042.7	4333.7	3789.5	3400.1	3175.4	3040.6	3055.6
17.5°	7309.5	6974.9	6206.0	5367.3	4543.4	3784.5	3180.4	2776.0	2546.3	2461.4	2441.5
20°	7254.5	6925.0	5961.4	4997.8	4044.2	3260.3	2681.1	2346.6	2186.8	2116.9	2102.0
22.5°	7274.5	6805.2	5706.8	4588.4	3579.8	2820.9	2346.6	2092.0	1967.2	1932.2	1942.2
25°	7369.4	6735.3	5452.1	4139.0	3120.5	2496.4	2131.9	1937.2	1847.3	1812.4	1822.4
27.5°	7439.3	6795.2	5222.5	3714.6	2731.1	2206.8	1952.2	1822.4	1762.5	1737.5	1732.5
30°	7614.0	6830.1	4997.8	3335.2	2411.5	2017.1	1827.4	1722.5	1682.6	1667.6	1662.6
32.5°	7873.6	6895.1	4738.2	2985.7	2176.9	1837.3	1727.5	1637.6	1627.7	1612.7	1617.7
35°	8298.0	7119.7	4448.6	2686.1	1952.2	1717.5	1622.7	1562.7	1562.7	1562.7	1577.7
37.5°	8907.1	7434.3	4189.0	2401.5	1807.4	1612.7	1532.8	1512.8	1502.8	1517.8	1527.8
40°	9691.0	7813.7	3979.3	2176.9	1682.6	1542.8	1472.9	1462.9	1457.9	1452.9	1462.9
42.5°	10549.8	8298.0	3799.5	2002.1	1592.7	1467.9	1418.0	1408.0	1388.0	1398.0	1413.0
45°	11403.5	8897.2	3639.7	1862.3	1532.8	1427.9	1358.0	1353.0	1343.1	1338.1	1363.0
47.5°	12352.2	9486.3	3589.8	1777.4	1487.9	1368.0	1318.1	1313.1	1283.1	1278.2	1298.1
50°	13091.1	9920.7	3644.7	1737.5	1422.9	1323.1	1288.1	1263.2	1238.2	1213.2	1213.2
52.5°	13600.4	10220.3	3684.7	1707.5	1388.0	1263.2	1218.2	1208.3	1183.3	1158.3	1148.3
55°	14059.7	10400.0	3694.7	1712.5	1353.0	1193.3	1163.3	1158.3	1143.4	1103.4	1093.4
57.5°	14214.5	10325.1	3495.0	1667.6	1333.1	1148.3	1108.4	1118.4	1098.4	1063.5	1058.5
60°	14199.5	9805.8	3040.6	1607.7	1288.1	1098.4	1048.5	1078.4	1078.4	1038.5	1033.5
62.5°	13335.8	8607.6	2486.4	1492.8	1238.2	1048.5	993.6	1038.5	1053.5	1028.5	1023.5
65°	11543.3	7009.9	2077.0	1378.0	1163.3	993.6	938.6	988.6	1013.5	1003.6	998.6
67.5°	9551.2	5362.3	1727.5	1228.2	1068.5	918.7	873.7	908.7	923.7	928.7	933.7
70°	6750.3	3569.8	1442.9	1063.5	938.6	838.8	788.9	793.9	788.9	803.8	803.8
72.5°	3669.7	2057.0	1173.3	903.7	808.8	728.9	694.0	669.0	669.0	664.0	664.0
73°	3140.5	1847.3	1118.4	878.7	773.9	709.0	669.0	649.1	649.1	644.1	639.1
75°	1762.5	1353.0	958.6	753.9	669.0	619.1	589.1	559.2	554.2	554.2	554.2
77.5°	1158.3	1053.5	763.9	604.1	539.2	494.3	484.3	454.3	454.3	454.3	449.4
80°	868.7	828.8	589.1	459.3	414.4	379.5	369.5	349.5	344.5	324.5	329.5
82.5°	579.2	654.1	429.4	324.5	279.6	259.6	259.6	254.6	239.7	214.7	214.7
85°	459.3	534.2	309.6	199.7	164.8	139.8	144.8	139.8	134.8	109.8	104.8
87.5°	84.9	214.7	89.9	54.9	39.9	25.0	25.0	15.0	10.0	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)