

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: P480474

Luminaire Tested: **IFLD-S-SA6C-735-U-SL3**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480474
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6C-735-U-SL3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens
Light Source: (96) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

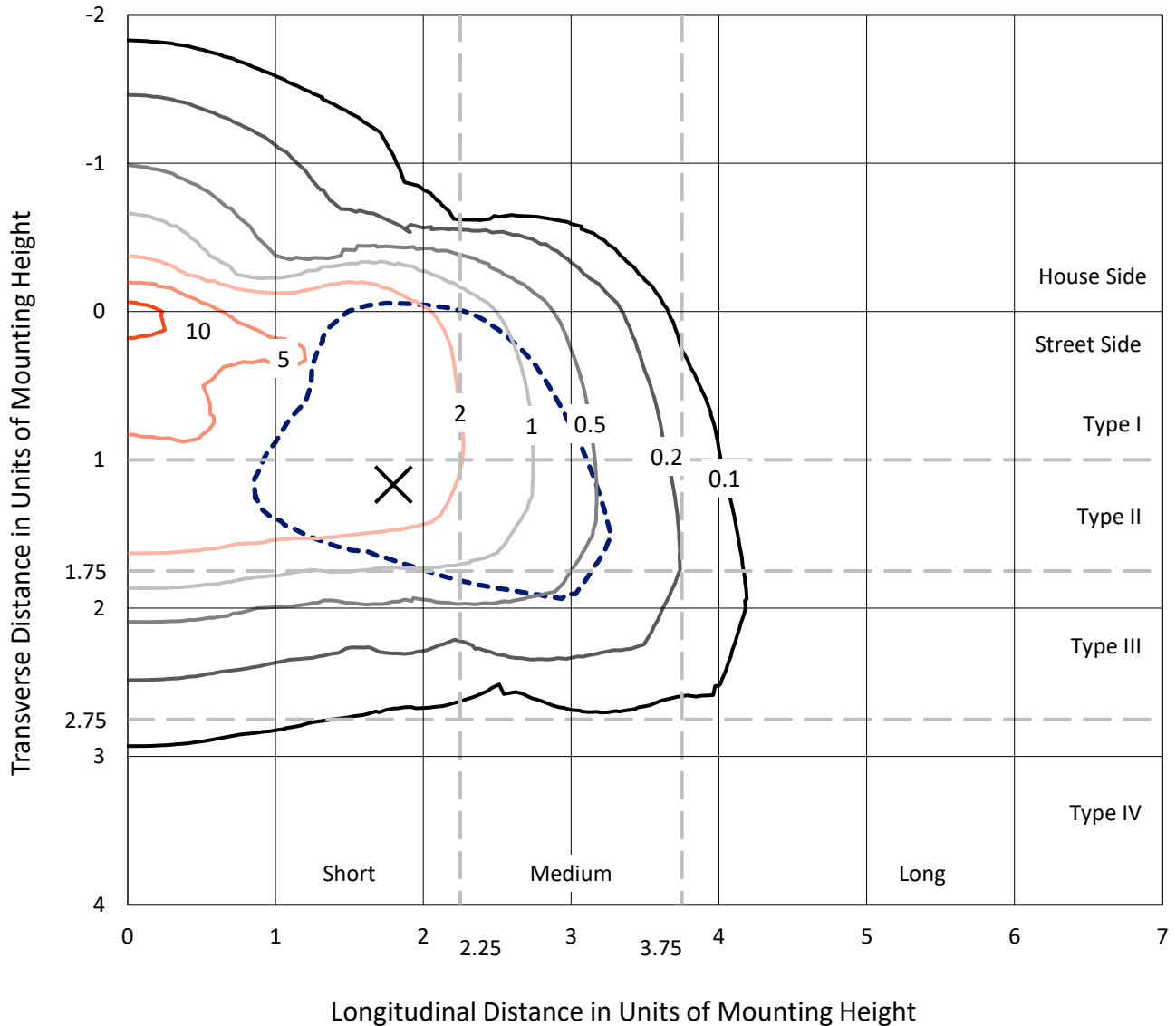
Lumens per Lamp: N/A
Luminaire Lumens: 40438.5 lumens
Efficiency: N/A
Efficacy: 125.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

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

REPORT NUMBER: P480474
 CATALOG NUMBER: IFLD-S-SA6C-735-U-SL3

Iso-Footcandle Lines of Horizontal Illumination

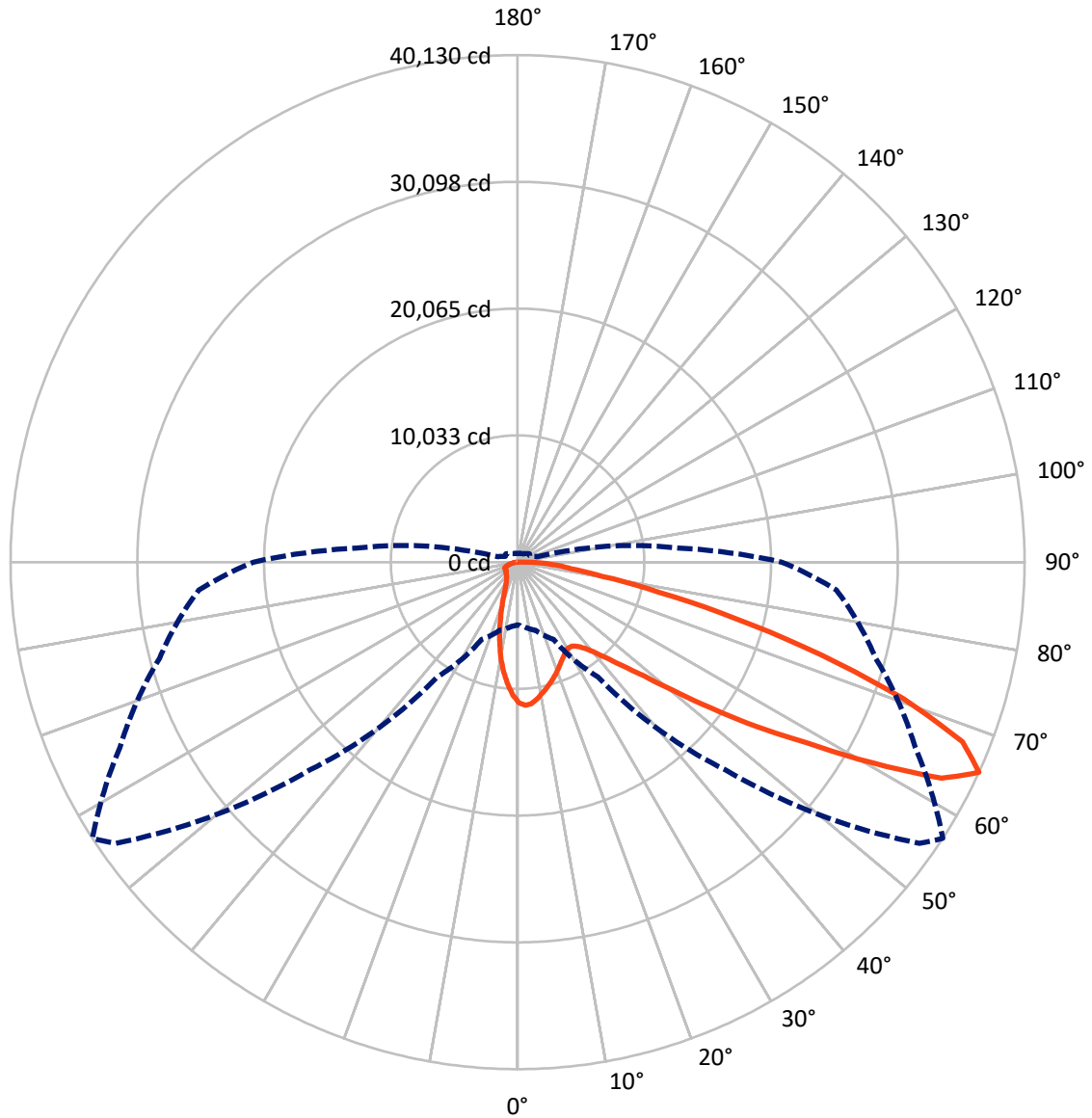
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 12.4 fc
 Type III - Short - N/A

REPORT NUMBER: P480474
CATALOG NUMBER: IFLD-S-SA6C-735-U-SL3

Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P480474

CATALOG NUMBER: IFLD-S-SA6C-735-U-SL3

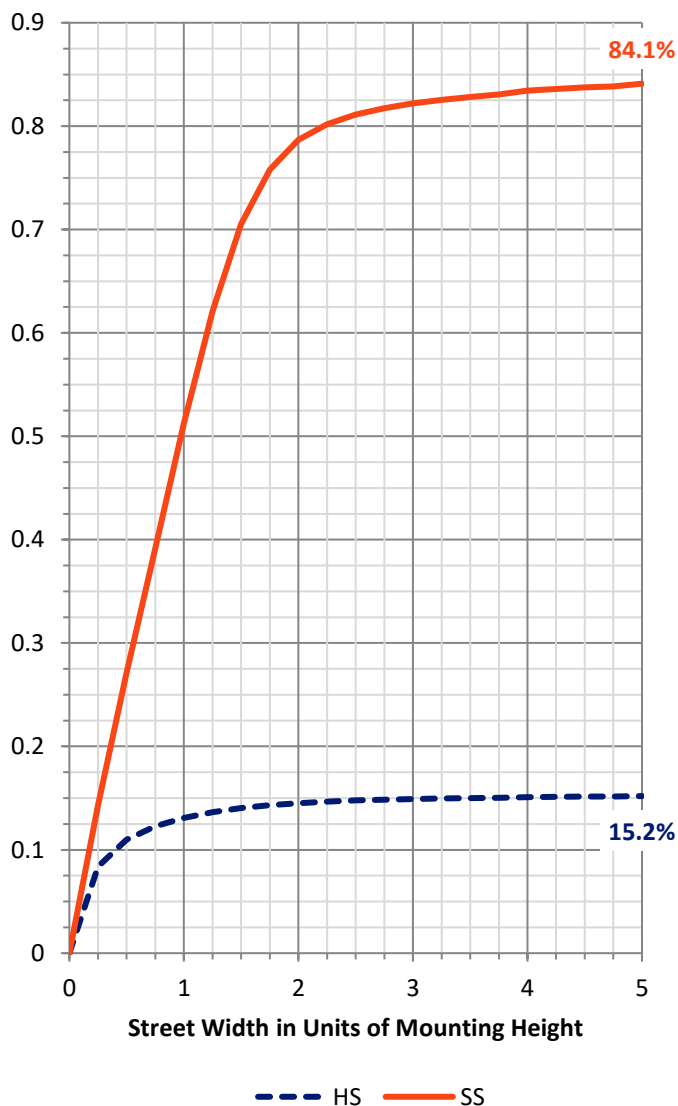
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6201.6	0.0	6201.6
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	34236.9	0.0	34236.9
	% Fixture	84.7	0.0	84.7
Total	Lumens	40438.5	0.0	40438.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	931.2	2.3
10°-20°	2004.1	5.0
20°-30°	2591.2	6.4
30°-40°	3486.8	8.6
40°-50°	5559.9	13.7
50°-60°	9820.2	24.3
60°-70°	10803.5	26.7
70°-80°	4519.3	11.2
80°-90°	722.3	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°	40438.5	100.0
0°-180°	40438.5	100.0

Coefficient of Utilization



REPORT NUMBER: P480474

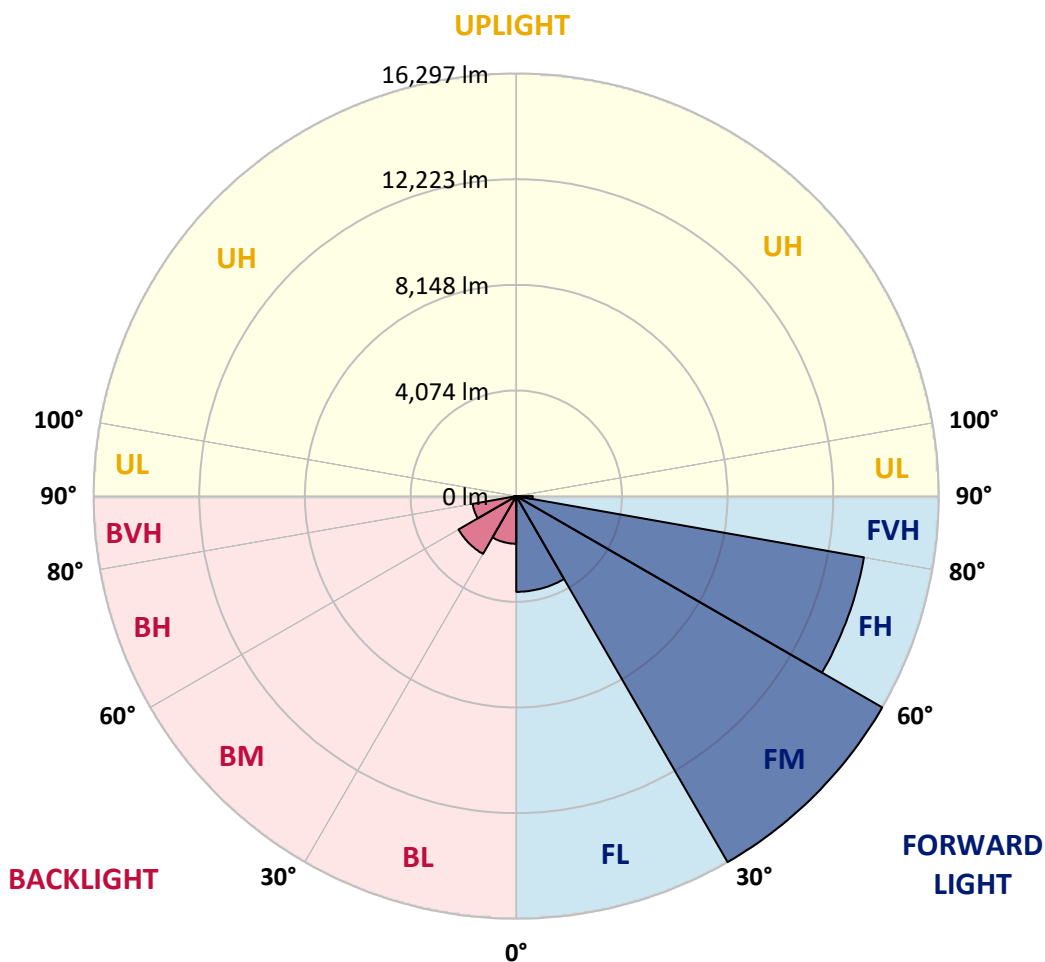
CATALOG NUMBER: IFLD-S-SA6C-735-U-SL3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3689.9	9.1			
FM (30°-60°)	16296.7	40.3			
FH (60°-80°)	13612.8	33.7			G5
FVH (80°-90°)	637.5	1.6			G4/750
BL (0°-30°)	1836.6	4.5	B3/2500		
BM (30°-60°)	2570.3	6.4	B3/5000		
BH (60°-80°)	1710.0	4.2	B3/2500		G3/2500
BVH (80°-90°)	84.7	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





REPORT NUMBER: P480474

CATALOG NUMBER: IFLD-S-SA6C-735-U-SL3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	11120.0	11120.0	11120.0	11120.0	11120.0	11120.0	11120.0	11120.0	11120.0	11120.0	11120.0
2.5°	11420.3	11438.5	11438.5	11474.9	11352.1	11411.2	11402.1	11347.5	11365.7	11270.2	11174.6
5°	11097.3	11083.6	11156.4	11165.5	11261.1	11288.4	11311.1	11274.7	11283.8	11074.5	10983.5
7.5°	10269.2	10264.6	10387.5	10492.1	10692.3	10878.9	11001.7	10965.3	11015.4	10883.4	10669.6
10°	9286.4	9391.1	9518.5	9623.1	9991.6	10228.2	10546.7	10578.6	10769.7	10737.8	10351.1
12.5°	8549.3	8594.8	8690.4	8990.7	9327.4	9718.7	10173.6	10214.6	10401.1	10492.1	10155.4
15°	7944.2	7985.1	8108.0	8330.9	8708.6	9172.7	9750.5	9855.1	10228.2	10260.1	9900.6
17.5°	7502.8	7534.7	7616.6	7839.5	8148.9	8745.0	9291.0	9477.5	9968.9	10123.6	9636.8
20°	7329.9	7261.7	7307.2	7448.2	7757.6	8217.2	8922.4	9086.2	9714.1	10018.9	9386.5
22.5°	7252.6	7193.4	7220.7	7211.6	7457.3	7784.9	8526.6	8699.5	9473.0	9896.1	9163.6
25°	7311.7	7311.7	7284.4	7261.7	7289.0	7502.8	8098.9	8367.3	9149.9	9791.4	8936.1
27.5°	7630.2	7507.4	7521.0	7425.5	7398.2	7398.2	7907.8	8067.0	9045.3	9732.3	8749.5
30°	7835.0	7894.1	7898.7	7757.6	7616.6	7361.8	7730.3	7885.0	8958.8	9805.1	8640.3
32.5°	8358.2	8330.9	8253.6	8226.3	8017.0	7730.3	7816.8	7921.4	8908.8	9968.9	8672.2
35°	8881.5	8867.8	8872.4	8858.7	8640.3	8217.2	8048.8	8189.9	8999.8	10255.5	8781.4
37.5°	9422.9	9459.3	9614.0	9614.0	9382.0	8922.4	8699.5	8658.5	9331.9	10724.2	9040.7
40°	9964.3	10055.3	10251.0	10560.4	10232.8	9805.1	9445.7	9382.0	9732.3	11352.1	9664.1
42.5°	10483.0	10633.2	11019.9	11479.5	11370.3	10942.6	10464.8	10392.0	10555.8	12284.8	10533.1
45°	11147.3	11274.7	11884.4	12589.7	12739.8	12362.2	11802.5	11743.4	11734.3	13649.8	11729.7
47.5°	12157.4	12293.9	12903.6	13613.4	14077.5	14136.6	13508.7	13445.0	13226.6	15492.5	13481.4
50°	13422.3	13645.2	14159.4	14987.5	15660.9	16293.3	16115.9	15929.3	15501.6	17635.5	15701.8
52.5°	14345.9	14618.9	15315.1	16375.2	17562.7	18568.3	19205.3	19205.3	18222.5	19987.8	18372.6
55°	14591.6	14755.4	15633.6	17166.9	19200.7	21744.1	23077.2	22977.1	21462.0	22463.0	21480.2
57.5°	13613.4	13827.2	14891.9	16498.0	20060.6	24715.2	26921.9	26944.7	25001.9	25338.6	24546.9
60°	10919.8	10988.1	12243.9	14391.4	19232.6	27108.5	32172.6	32259.0	29028.6	27900.2	26107.5
62.5°	7548.3	7766.7	8713.1	10596.8	15933.9	26840.0	37236.6	37664.3	32254.5	29251.5	26353.2
65°	4968.5	5100.5	5605.5	6752.1	11092.7	23263.8	38810.9	40130.4	34720.5	29328.8	25324.9
67.5°	3603.5	3626.3	3776.4	4367.9	6665.6	16730.1	36121.9	37982.8	35644.2	28682.8	22913.4
70°	2912.0	2930.2	2984.8	3362.4	4304.2	10469.4	29460.8	32377.3	32873.2	25620.7	18454.5
72.5°	2366.0	2388.7	2457.0	2811.9	3548.9	5823.9	21543.9	25097.4	26739.9	18955.0	12266.6
75°	1860.9	1879.1	2042.9	2393.3	3335.1	3999.4	14291.3	17772.0	17995.0	11079.1	5742.0
77.5°	1274.0	1305.8	1506.0	2029.3	3139.5	3498.9	8908.8	11383.9	10214.6	4336.1	1974.7
80°	809.9	855.4	973.7	1537.9	2775.5	3339.6	5541.8	6797.6	4472.6	1483.3	950.9
82.5°	477.7	523.2	641.5	996.4	2179.4	3098.5	3903.8	4254.2	2097.5	759.8	573.3
85°	263.9	295.7	386.7	600.6	1278.5	2752.7	3125.8	3053.0	1201.2	404.9	359.4
87.5°	86.4	100.1	141.0	241.1	527.8	1296.7	1874.6	1760.8	623.3	186.5	141.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P480474
 CATALOG NUMBER: IFLD-S-SA6C-735-U-SL3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	11120.0	11120.0	11120.0	11120.0	11120.0	11120.0	11120.0	11120.0	11120.0	11120.0	11120.0
2.5°	11110.9	11097.3	10892.5	10737.8	10473.9	10255.5	10169.1	10050.8	10046.2	9959.8	9937.0
5°	10842.5	10701.4	10387.5	10087.2	9618.6	9304.6	9018.0	8817.8	8735.9	8558.4	8517.5
7.5°	10496.7	10310.1	9827.8	9263.7	8713.1	8221.7	7775.8	7329.9	7079.7	6993.2	6897.7
10°	10137.2	9809.6	9095.3	8462.9	7693.9	6938.6	6238.0	5610.1	5268.8	5027.7	4923.0
12.5°	9850.6	9413.8	8503.8	7557.4	6542.8	5532.7	4718.3	4058.5	3671.8	3489.8	3407.9
15°	9527.6	8949.7	7857.7	6661.1	5396.2	4249.6	3453.4	2934.7	2780.0	2693.6	2679.9
17.5°	9186.3	8517.5	7157.0	5778.4	4276.9	3198.6	2684.5	2475.2	2406.9	2370.5	2352.3
20°	8867.8	8130.7	6438.2	4795.6	3348.7	2566.2	2325.0	2215.8	2211.3	2229.5	2224.9
22.5°	8417.4	7625.7	5728.4	3885.6	2675.4	2234.0	2079.3	2052.0	2079.3	2102.1	2111.2
25°	8162.6	7211.6	4936.7	3084.9	2211.3	1983.8	1933.7	1924.6	1965.6	1992.9	1988.3
27.5°	7898.7	6783.9	4199.6	2470.6	1938.3	1806.3	1797.2	1806.3	1847.3	1888.2	1883.7
30°	7693.9	6442.7	3508.0	2065.7	1729.0	1678.9	1669.8	1678.9	1701.7	1706.2	1706.2
32.5°	7525.6	6037.8	2921.1	1792.7	1601.6	1560.6	1569.7	1565.2	1569.7	1574.3	1578.8
35°	7425.5	5796.6	2438.8	1624.3	1496.9	1465.1	1460.5	1446.9	1451.4	1456.0	1451.4
37.5°	7639.3	5678.3	2056.6	1506.0	1424.1	1396.8	1387.7	1378.6	1365.0	1365.0	1365.0
40°	7962.4	5614.6	1824.5	1428.7	1369.5	1337.7	1310.4	1301.3	1301.3	1305.8	1310.4
42.5°	8603.9	5719.3	1665.3	1369.5	1301.3	1264.9	1237.6	1242.1	1255.8	1269.4	1260.3
45°	9532.1	6037.8	1592.5	1324.0	1260.3	1210.3	1192.1	1187.5	1201.2	1223.9	1242.1
47.5°	10746.9	6533.7	1565.2	1283.1	1233.0	1164.8	1142.0	1155.7	1173.9	1205.7	1192.1
50°	12735.3	7648.4	1587.9	1246.7	1192.1	1142.0	1114.7	1101.1	1114.7	1137.5	1146.6
52.5°	15333.3	9673.2	1674.4	1228.5	1164.8	1123.8	1078.3	1055.6	1069.2	1087.4	1087.4
55°	18440.9	12439.5	1915.5	1205.7	1119.3	1096.5	1046.5	1001.0	1010.1	1010.1	1005.5
57.5°	21179.9	14527.9	2202.2	1173.9	1092.0	1060.1	996.4	941.8	932.7	937.3	941.8
60°	22408.4	15083.0	2338.7	1164.8	1092.0	1014.6	928.2	873.6	859.9	850.8	850.8
62.5°	22194.6	14123.0	2061.1	1123.8	1119.3	978.2	864.5	805.3	787.1	768.9	773.5
65°	20902.4	12753.5	1624.3	1069.2	1123.8	955.5	800.8	741.6	709.8	687.0	682.5
67.5°	18541.0	10888.0	1287.6	1028.3	1078.3	914.5	746.2	677.9	650.6	627.9	618.8
70°	14505.2	8535.7	1119.3	973.7	969.1	814.4	682.5	623.3	582.4	555.1	555.1
72.5°	9404.7	5396.2	960.0	864.5	837.2	682.5	591.5	555.1	523.2	500.5	500.5
75°	4258.7	2507.0	773.5	723.4	682.5	546.0	500.5	482.3	455.0	432.2	432.2
77.5°	1528.8	1069.2	577.8	568.7	509.6	423.1	404.9	391.3	373.1	350.3	350.3
80°	855.4	677.9	432.2	414.0	354.9	313.9	291.2	291.2	282.1	268.4	263.9
82.5°	541.4	441.3	318.5	277.5	232.0	209.3	200.2	195.6	191.1	172.9	168.3
85°	341.2	300.3	209.3	163.8	136.5	104.6	100.1	95.5	86.4	77.3	77.3
87.5°	154.7	172.9	81.9	50.0	36.4	22.7	13.6	4.5	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)