

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: P478534

Luminaire Tested: **IFLD-L-SA7C-735-U-T4W**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478534
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7C-735-U-T4W
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens
Light Source: (112) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

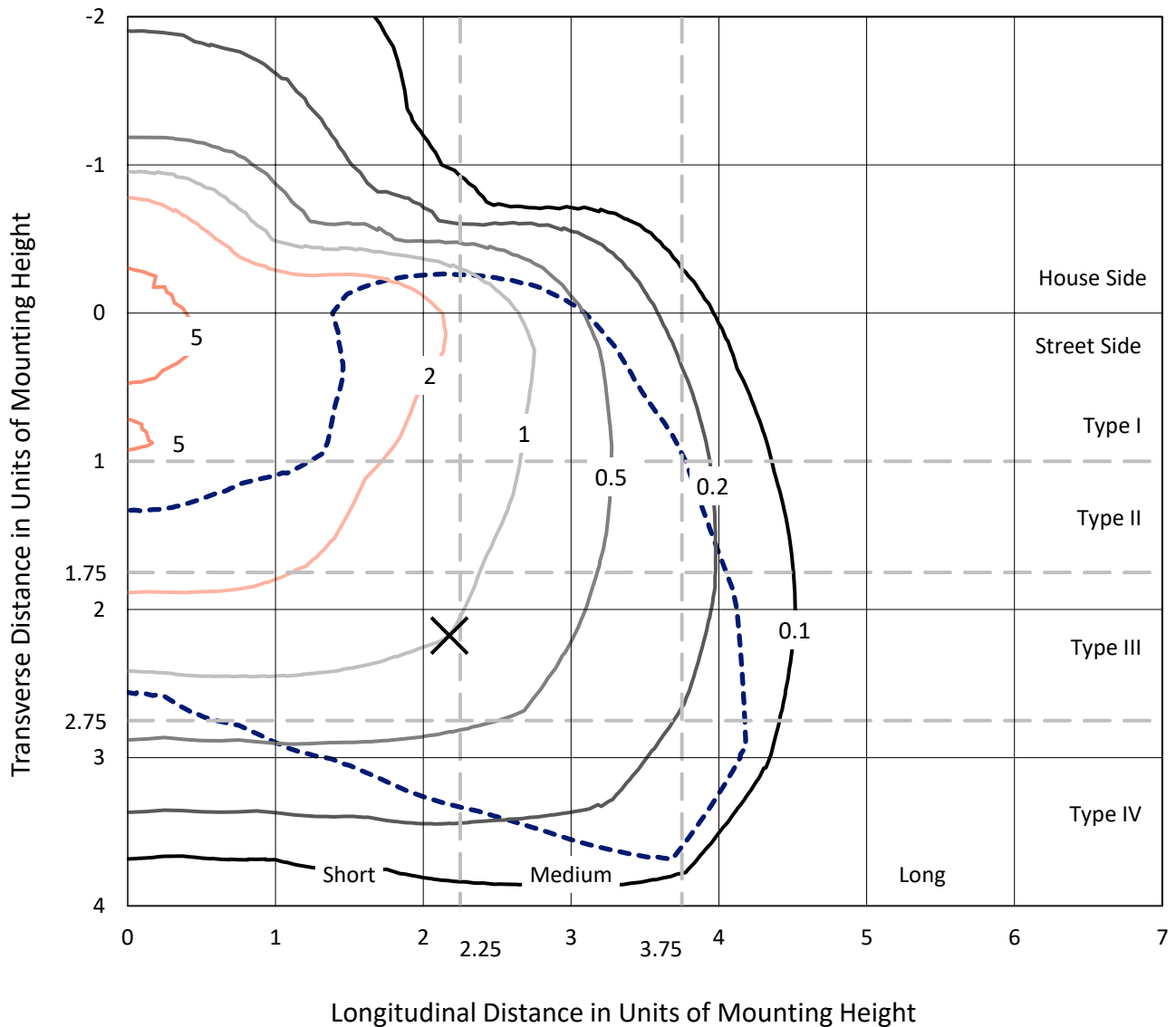
Lumens per Lamp: N/A
Luminaire Lumens: 44194.8 lumens
Efficiency: N/A
Efficacy: 119.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

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

REPORT NUMBER: P478534
 CATALOG NUMBER: IFLD-L-SA7C-735-U-T4W

Iso-Footcandle Lines of Horizontal Illumination

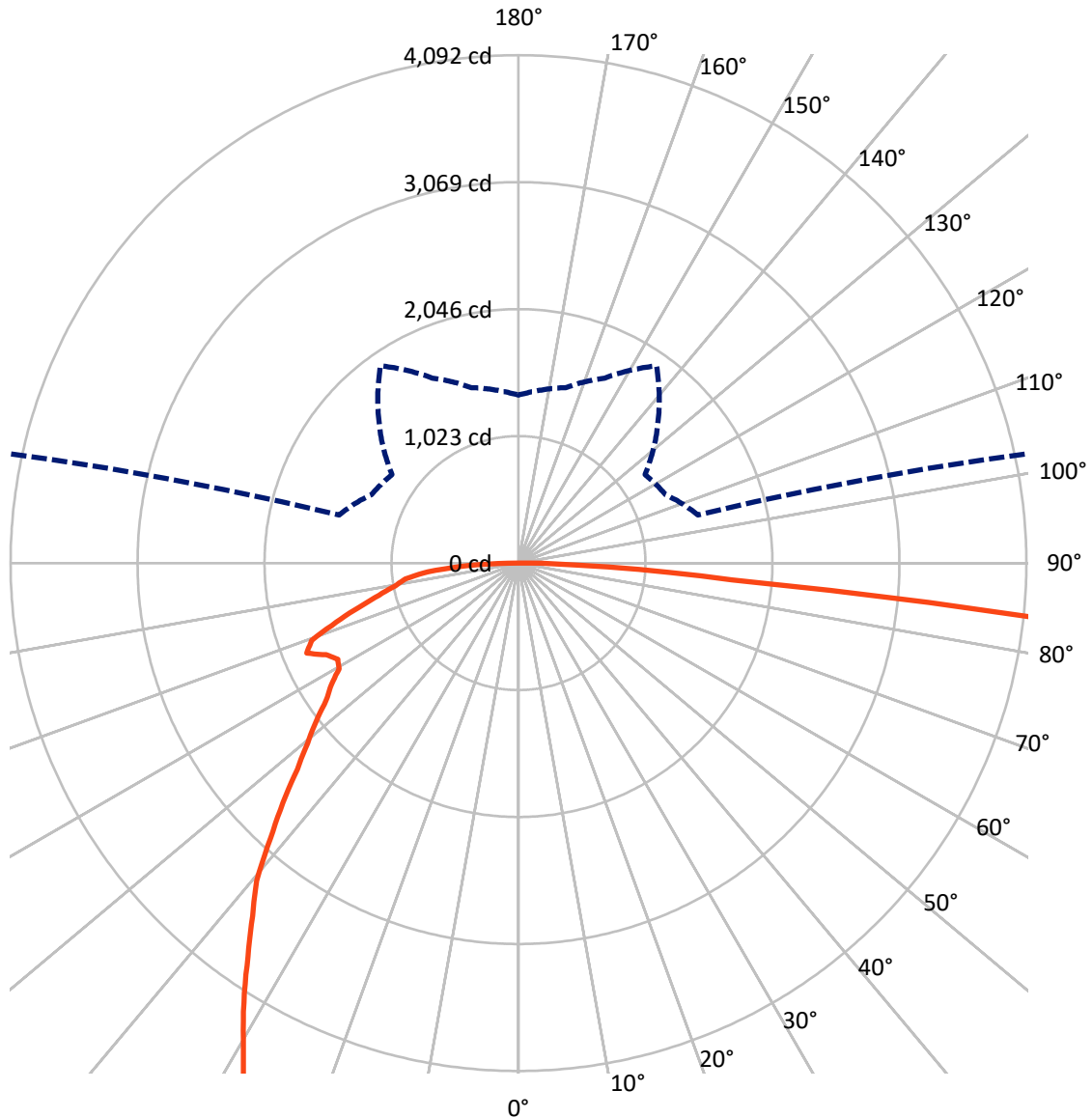
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.4 fc
 Type IV - Short - N/A

REPORT NUMBER: P478534
CATALOG NUMBER: IFLD-L-SA7C-735-U-T4W

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

REPORT NUMBER: P478534
 CATALOG NUMBER: IFLD-L-SA7C-735-U-T4W

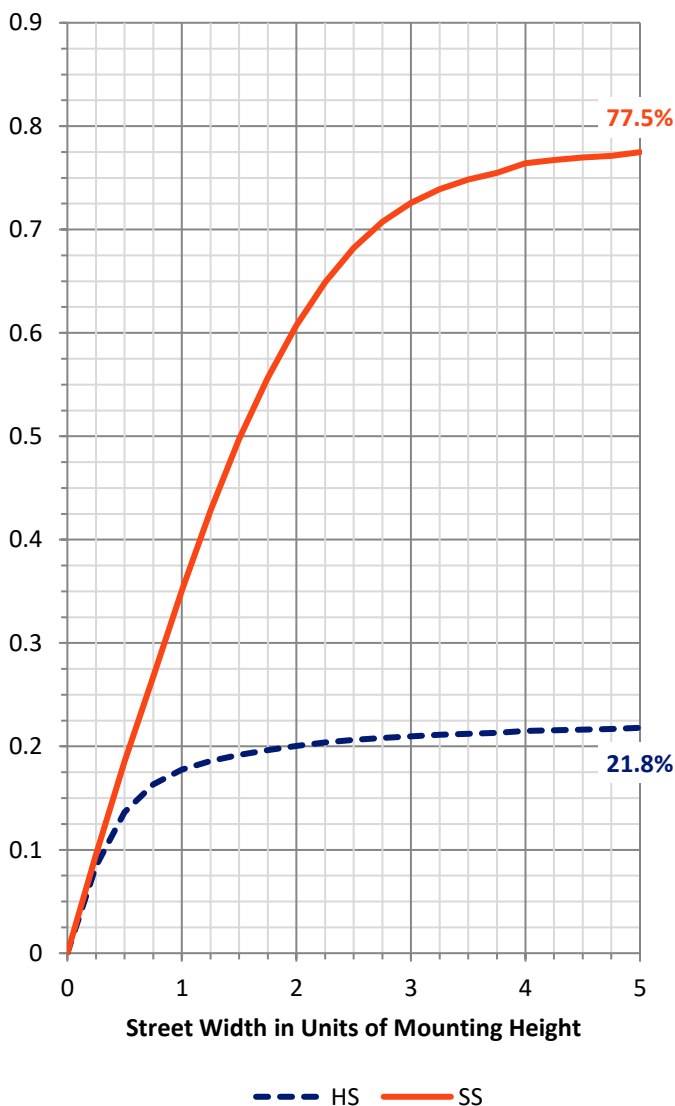
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9838.0	0.0	9838.0
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	34356.8	0.0	34356.8
	% Fixture	77.7	0.0	77.7
Total	Lumens	44194.8	0.0	44194.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	465.7	1.1
10°-20°	1549.5	3.5
20°-30°	2616.6	5.9
30°-40°	3621.0	8.2
40°-50°	5179.5	11.7
50°-60°	8354.0	18.9
60°-70°	12320.9	27.9
70°-80°	8947.1	20.2
80°-90°	1140.5	2.6
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°	44194.8	100.0
0°-180°	44194.8	100.0

Coefficient of Utilization



REPORT NUMBER: P478534

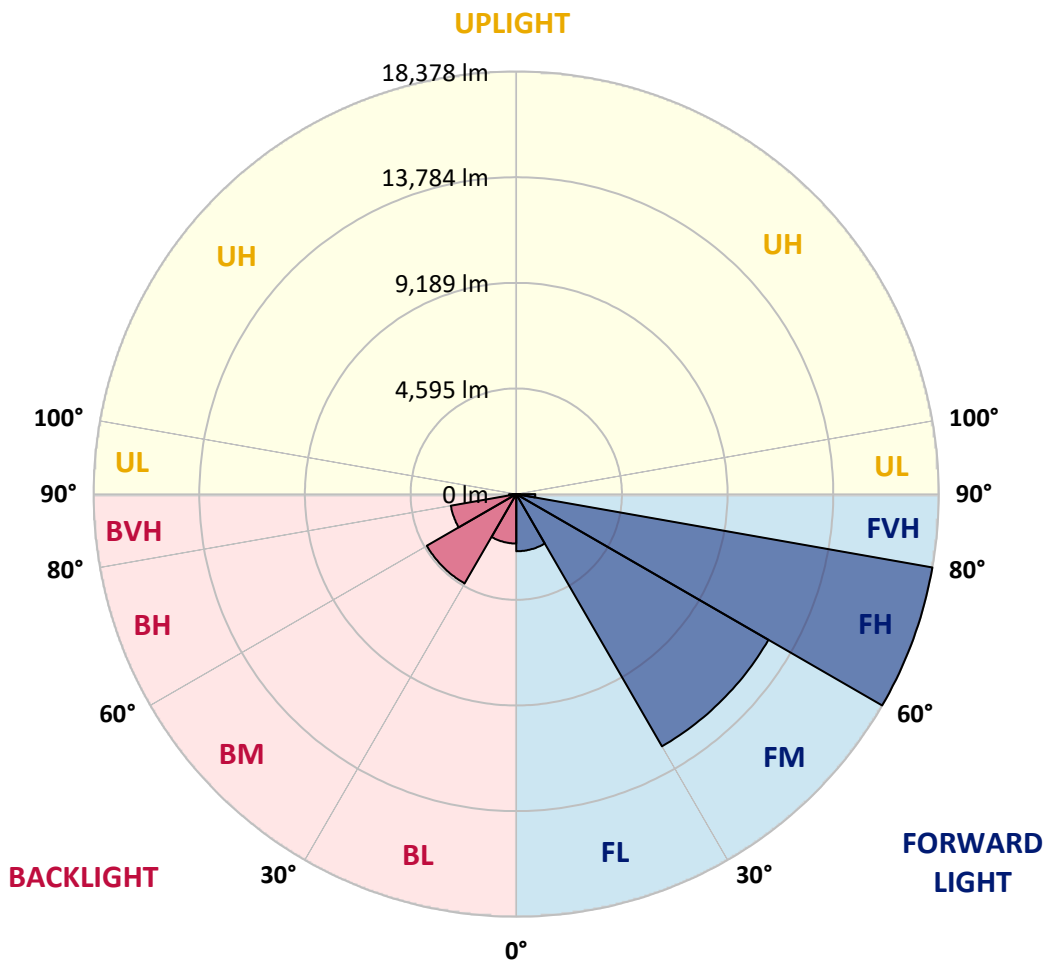
CATALOG NUMBER: IFLD-L-SA7C-735-U-T4W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2483.8	5.6			
FM (30°-60°)	12664.7	28.7			
FH (60°-80°)	18378.2	41.6			G5
FVH (80°-90°)	830.1	1.9			G5
BL (0°-30°)	2148.1	4.9	B3/2500		
BM (30°-60°)	4489.8	10.2	B3/5000		
BH (60°-80°)	2889.8	6.5	B4/5000		G4/5000
BVH (80°-90°)	310.4	0.7			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type IV Short





REPORT NUMBER: P478534

CATALOG NUMBER: IFLD-L-SA7C-735-U-T4W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	4551.3	4551.3	4551.3	4551.3	4551.3	4551.3	4551.3	4551.3	4551.3	4551.3	4551.3
2.5°	4794.3	4822.9	4794.3	4789.6	4741.9	4708.5	4737.1	4694.2	4646.6	4627.5	4584.6
5°	5232.8	5237.5	5185.1	5189.9	5089.8	4985.0	5004.0	4875.3	4737.1	4684.7	4598.9
7.5°	5680.7	5628.3	5552.1	5528.2	5371.0	5256.6	5242.3	5127.9	4913.5	4794.3	4675.2
10°	5971.5	5990.5	5866.6	5761.8	5628.3	5490.1	5485.4	5270.9	5147.0	4970.7	4818.2
12.5°	6228.8	6233.6	6128.7	5961.9	5795.1	5623.6	5647.4	5552.1	5342.4	5175.6	5023.1
15°	6429.0	6400.4	6286.0	6133.5	5957.2	5823.7	5809.4	5728.4	5552.1	5413.9	5161.3
17.5°	6486.2	6471.9	6357.5	6195.4	6023.9	5923.8	5961.9	5828.5	5757.0	5633.1	5390.0
20°	6376.5	6343.2	6324.1	6143.0	6019.1	6009.6	5976.2	6004.8	5885.7	5771.3	5595.0
22.5°	6176.4	6162.1	6152.6	6009.6	5952.4	5995.3	6052.5	6095.4	6076.3	5966.7	5766.5
25°	5971.5	6038.2	5976.2	5909.5	5990.5	6100.1	6085.8	6224.0	6224.0	6190.7	6023.9
27.5°	6114.4	6071.5	6023.9	5990.5	6019.1	6190.7	6181.1	6347.9	6409.9	6347.9	6157.3
30°	6471.9	6429.0	6290.8	6143.0	6104.9	6290.8	6338.4	6486.2	6514.7	6362.2	6200.2
32.5°	7143.8	7120.0	6900.8	6467.1	6233.6	6338.4	6362.2	6529.0	6505.2	6409.9	6343.2
35°	8139.9	8058.8	7753.8	7019.9	6505.2	6400.4	6338.4	6471.9	6562.4	6514.7	6452.8
37.5°	9231.2	9140.7	8764.2	7834.9	6996.1	6567.2	6519.5	6629.1	6734.0	6710.1	6581.5
40°	10274.9	10274.9	9936.5	8854.7	7725.2	6972.3	6981.8	6857.9	6953.2	6910.3	6934.1
42.5°	11304.3	11266.2	11128.0	10050.9	8506.8	7649.0	7496.5	7186.7	7358.3	7344.0	7377.3
45°	12348.0	12319.4	12281.3	11166.1	9626.8	8564.0	8483.0	7925.4	8082.7	8016.0	8158.9
47.5°	13182.0	13215.4	13215.4	12410.0	10823.0	9784.0	9664.9	8783.2	9083.5	9116.8	9150.2
50°	13892.1	13906.4	13892.1	13596.6	12157.4	11180.4	10937.3	10041.4	10341.6	10603.7	10908.8
52.5°	14873.8	14892.9	14826.2	14711.8	13968.3	12648.2	12376.6	11380.6	11995.3	12271.7	12819.8
55°	16084.3	15941.4	15817.4	15903.2	15707.8	14263.8	13982.6	12762.6	13687.2	14054.1	15150.2
57.5°	16308.3	16432.2	16746.8	17428.3	17709.4	15836.5	15674.5	14459.2	15598.2	15917.5	17747.6
60°	17099.4	16894.5	17666.6	19143.9	19458.5	17885.8	17719.0	16317.9	17499.8	17833.4	20144.7
62.5°	17618.9	17609.4	18753.1	20506.9	21221.8	20011.3	19672.9	18734.1	19553.8	19877.8	22756.3
65°	17466.4	17604.6	19634.8	21307.6	22694.4	22427.5	22232.1	20811.9	21893.8	21865.2	24457.7
67.5°	16074.8	16465.6	19077.2	21884.2	24886.6	25372.7	25310.8	23733.3	23795.3	23190.0	25215.5
70°	14144.7	14011.2	16718.2	21283.7	25982.7	28866.0	28851.7	25906.5	25506.2	23480.7	23042.3
72°	10865.9	10718.1	12943.7	18276.6	25406.1	30262.4	30691.3	27412.5	25487.1	22275.0	19034.3
72.5°	9865.1	9736.4	11952.4	17204.3	24767.5	30624.6	30424.4	27469.7	25286.9	21707.9	17780.9
75°	4541.7	4394.0	5971.5	10532.3	19320.3	27136.1	27817.6	25706.3	22084.4	17280.5	10651.4
77.5°	1353.5	1310.6	1920.6	4251.0	11228.1	19992.2	20254.3	19396.5	15417.1	9464.7	3950.8
80°	753.0	757.8	991.3	1591.8	4937.3	11556.9	12500.5	11981.0	7563.2	3126.3	1315.3
82.5°	419.4	443.2	619.5	943.6	2268.5	5304.3	5709.3	5504.4	2735.5	1467.8	719.6
85°	219.2	228.8	324.1	505.2	1286.7	1677.5	1725.2	1849.1	1420.2	1000.8	386.0
87.5°	85.8	85.8	119.1	209.7	476.6	519.5	467.0	567.1	814.9	648.1	190.6
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: P478534
 CATALOG NUMBER: IFLD-L-SA7C-735-U-T4W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4551.3	4551.3	4551.3	4551.3	4551.3	4551.3	4551.3	4551.3	4551.3	4551.3	4551.3
2.5°	4622.8	4584.6	4579.9	4517.9	4537.0	4484.5	4489.3	4479.8	4484.5	4475.0	4451.2
5°	4598.9	4570.3	4489.3	4541.7	4494.1	4560.8	4613.2	4594.2	4608.5	4603.7	4608.5
7.5°	4632.3	4594.2	4584.6	4556.0	4598.9	4627.5	4670.4	4789.6	4780.0	4794.3	4822.9
10°	4732.4	4689.5	4660.9	4703.8	4679.9	4770.5	4818.2	4880.1	4989.7	4994.5	4937.3
12.5°	4927.8	4899.2	4842.0	4851.5	4932.5	4961.1	4989.7	5027.8	5099.3	5085.0	5137.5
15°	5151.8	5089.8	5056.4	5046.9	5066.0	5099.3	5094.6	5132.7	5170.8	5204.2	5189.9
17.5°	5313.8	5232.8	5242.3	5290.0	5285.2	5275.7	5213.7	5194.6	5213.7	5232.8	5223.2
20°	5480.6	5490.1	5418.6	5375.7	5356.7	5261.4	5213.7	5156.5	5099.3	5127.9	5170.8
22.5°	5690.3	5647.4	5542.5	5413.9	5318.6	5261.4	5113.6	5013.5	5013.5	5042.1	5027.8
25°	5928.6	5838.0	5656.9	5423.4	5304.3	5061.2	4956.4	4942.1	4903.9	4946.8	4965.9
27.5°	6114.4	6033.4	5785.6	5390.0	5061.2	4865.8	4803.9	4784.8	4846.7	4851.5	4927.8
30°	6190.7	6166.9	5804.7	5304.3	4813.4	4498.8	4460.7	4546.5	4613.2	4713.3	4718.1
32.5°	6290.8	6300.3	5833.3	5104.1	4489.3	4174.8	4117.6	4222.4	4413.1	4494.1	4556.0
35°	6457.6	6505.2	5809.4	4856.3	4146.2	3845.9	3836.4	3865.0	4050.9	4193.8	4274.9
37.5°	6748.3	6738.7	5804.7	4560.8	3874.5	3560.0	3483.7	3493.3	3617.2	3736.3	3722.0
40°	7139.1	7100.9	5790.4	4174.8	3521.9	3316.9	3188.3	3140.6	3131.1	3097.7	3107.3
42.5°	7672.8	7596.6	5785.6	3784.0	3202.6	2983.3	2892.8	2768.9	2678.3	2506.8	2516.3
45°	8416.3	8282.8	5661.7	3417.0	2888.0	2706.9	2568.7	2478.2	2282.8	2068.3	2068.3
47.5°	9564.8	9131.1	5666.4	3011.9	2583.0	2435.3	2340.0	2182.7	1973.0	1801.4	1782.4
50°	11256.6	10265.4	5504.4	2692.6	2335.2	2235.1	2135.0	1953.9	1753.8	1634.6	1648.9
52.5°	13439.4	11957.2	5499.6	2406.7	2139.8	2068.3	1958.7	1796.7	1648.9	1572.7	1544.1
55°	16041.4	14197.1	5671.2	2173.2	1939.7	1901.5	1853.9	1720.4	1577.5	1510.7	1506.0
57.5°	18705.5	16384.6	5947.6	2006.4	1768.1	1796.7	1763.3	1658.5	1544.1	1467.8	1458.3
60°	21074.0	18119.3	5390.0	1806.2	1615.6	1677.5	1725.2	1634.6	1572.7	1567.9	1534.6
62.5°	22861.2	18862.7	4098.5	1653.7	1534.6	1648.9	1777.6	1834.8	1806.2	1844.3	1849.1
65°	23514.1	18414.8	2821.3	1572.7	1472.6	1715.7	2001.6	1982.5	1815.7	1744.3	1782.4
67.5°	22599.1	16599.0	2092.2	1477.4	1429.7	1853.9	2130.3	1892.0	1639.4	1629.9	1601.3
70°	19434.6	14068.4	1706.1	1377.3	1358.2	1777.6	2073.1	1753.8	1544.1	1482.1	1453.5
72°	15483.8	10956.4	1496.4	1305.8	1243.9	1587.0	1939.7	1644.2	1463.1	1386.8	1353.5
72.5°	14135.1	10155.8	1467.8	1272.4	1220.0	1544.1	1872.9	1610.8	1444.0	1377.3	1324.9
75°	7753.8	5199.4	1291.5	1167.6	1029.4	1334.4	1734.7	1510.7	1363.0	1267.7	1258.2
77.5°	2883.3	2015.9	1115.2	1034.2	891.2	1153.3	1577.5	1434.5	1239.1	1119.9	1096.1
80°	1105.6	1062.8	910.3	872.1	748.2	1010.3	1453.5	1286.7	1053.2	934.1	896.0
82.5°	672.0	619.5	691.0	681.5	571.9	919.8	1367.8	1205.7	934.1	757.8	733.9
85°	367.0	367.0	481.3	462.3	400.3	733.9	1034.2	800.6	591.0	486.1	495.6
87.5°	162.0	190.6	257.3	243.1	219.2	414.6	505.2	424.1	295.5	200.2	214.5
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)