

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: P478149

Luminaire Tested: **IFLD-L-SA8C-735-U-T4FT**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P478149
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8C-735-U-T4FT
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens
Light Source: (128) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

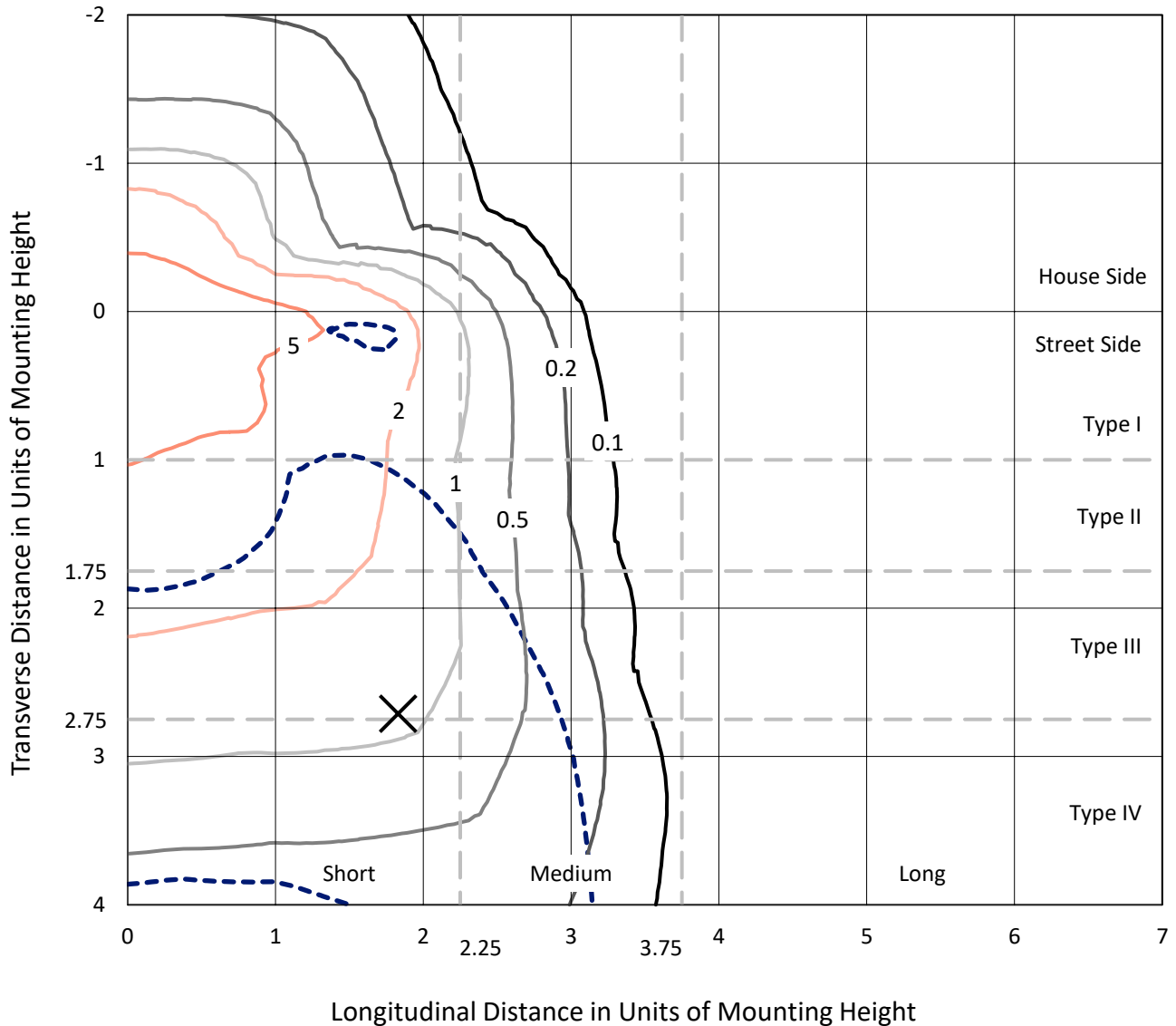
Lumens per Lamp: N/A
Luminaire Lumens: 51193.7 lumens
Efficiency: N/A
Efficacy: 121.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

Input Watts (W): 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

REPORT NUMBER: P478149
 CATALOG NUMBER: IFLD-L-SA8C-735-U-T4FT

Iso-Footcandle Lines of Horizontal Illumination

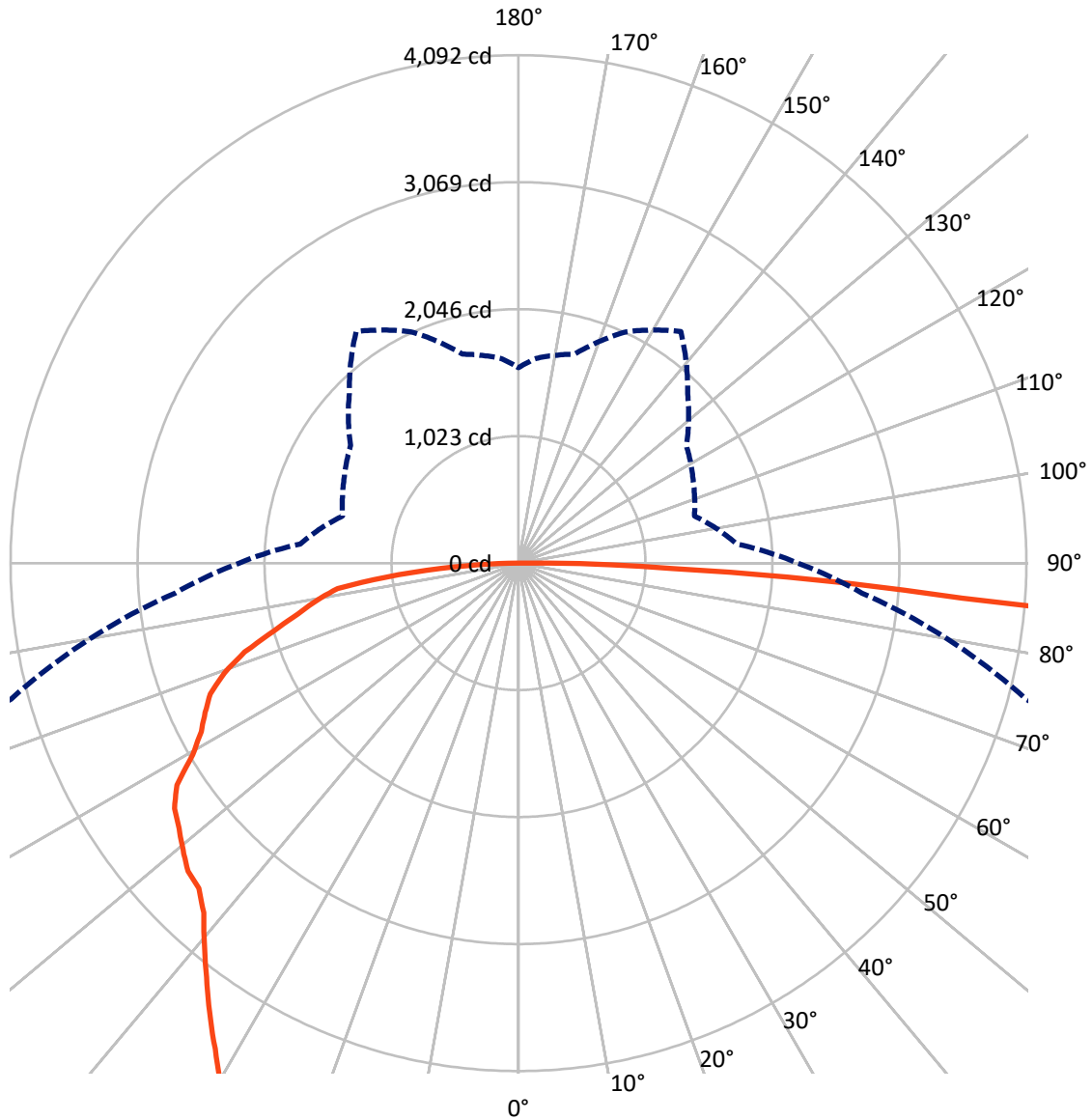
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.5 fc
 Type IV - Short - N/A

REPORT NUMBER: P478149
CATALOG NUMBER: IFLD-L-SA8C-735-U-T4FT

Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

REPORT NUMBER: P478149
 CATALOG NUMBER: IFLD-L-SA8C-735-U-T4FT

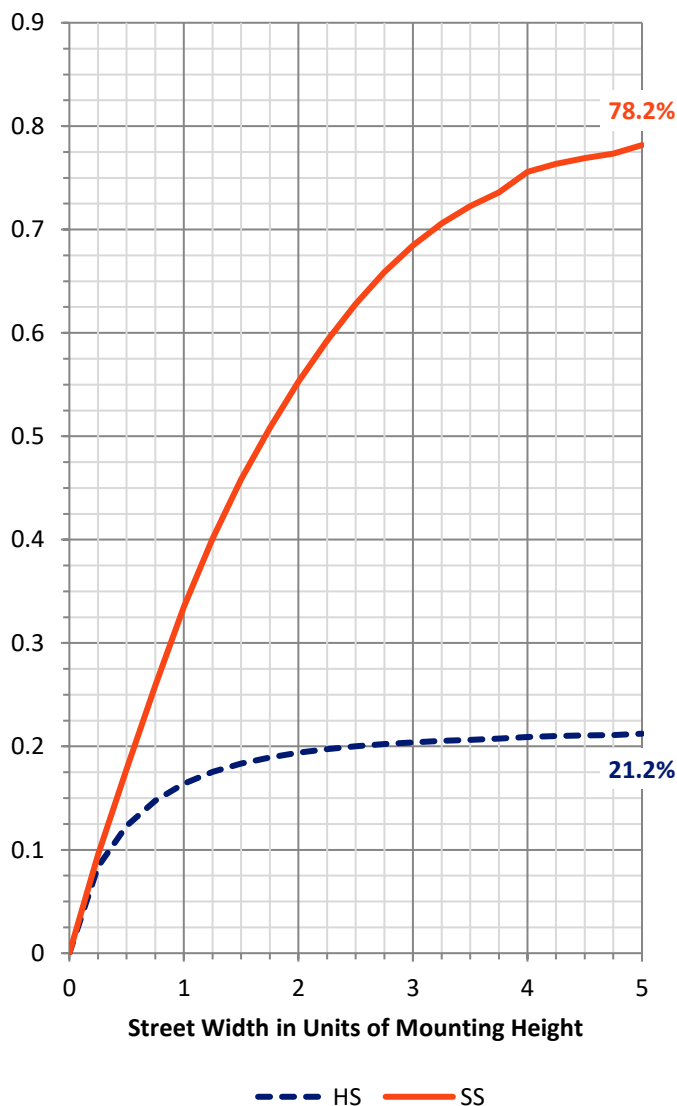
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11058.5	0.0	11058.5
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	40135.2	0.0	40135.2
	% Fixture	78.4	0.0	78.4
Total	Lumens	51193.7	0.0	51193.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	677.4	1.3
10°-20°	1895.7	3.7
20°-30°	3120.1	6.1
30°-40°	4666.1	9.1
40°-50°	6917.3	13.5
50°-60°	9968.6	19.5
60°-70°	12721.2	24.8
70°-80°	9899.2	19.3
80°-90°	1328.0	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°	51193.7	100.0
0°-180°	51193.7	100.0

Coefficient of Utilization



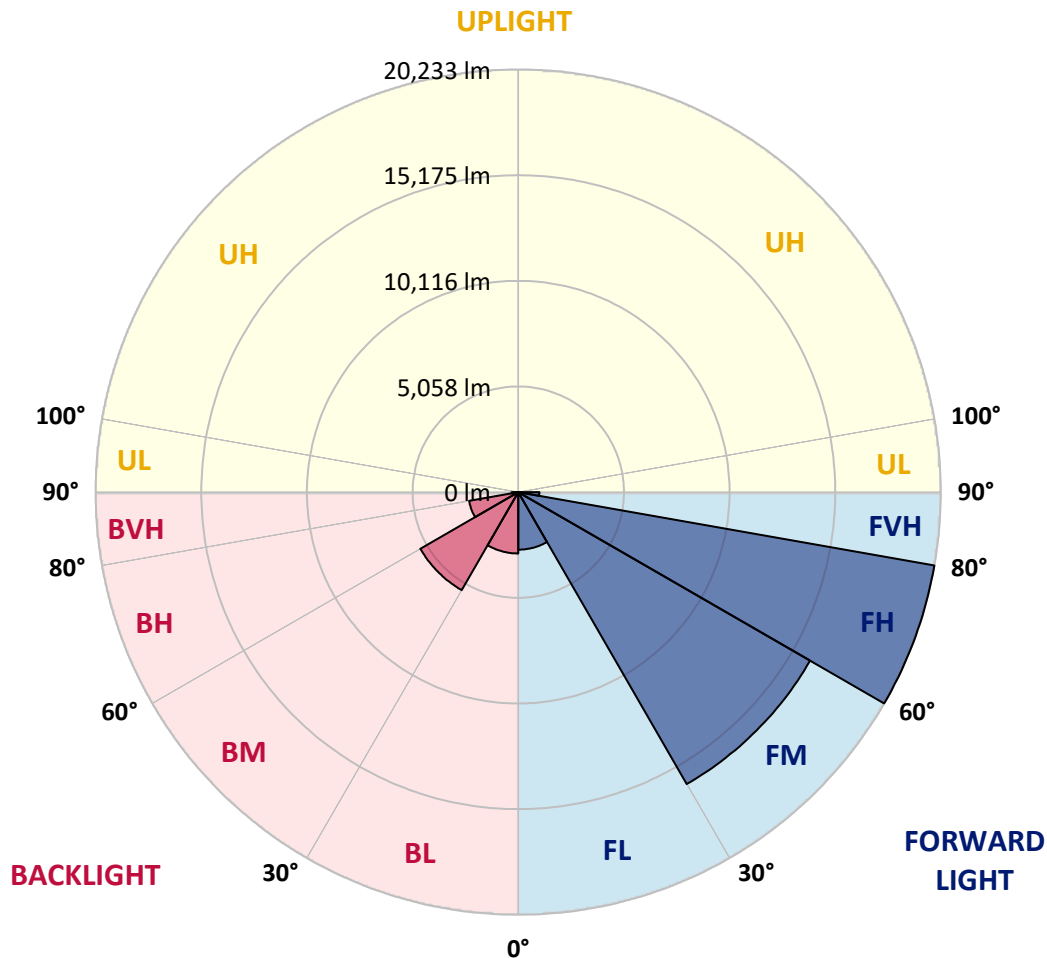
REPORT NUMBER: P478149
 CATALOG NUMBER: IFLD-L-SA8C-735-U-T4FT

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2755.1	5.4			
FM (30°-60°)	16136.6	31.5			
FH (60°-80°)	20232.7	39.5			G5
FVH (80°-90°)	1010.9	2.0			G5
BL (0°-30°)	2938.2	5.7	B4/5000		
BM (30°-60°)	5415.4	10.6	B4/8500		
BH (60°-80°)	2387.8	4.7	B3/2500		G3/2500
BVH (80°-90°)	317.2	0.6			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: P478149
 CATALOG NUMBER: IFLD-L-SA8C-735-U-T4FT

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	7339.4	7339.4	7339.4	7339.4	7339.4	7339.4	7339.4	7339.4	7339.4	7339.4	7339.4
2.5°	6576.3	6597.9	6668.3	6684.5	6760.3	6717.0	6809.0	6971.4	7063.4	7198.7	7361.1
5°	6056.6	5964.6	6007.9	6175.7	6262.3	6284.0	6381.4	6657.4	6830.6	7030.9	7334.0
7.5°	5445.0	5428.8	5515.4	5623.6	5796.8	5813.1	6029.6	6273.1	6630.4	7074.2	7431.4
10°	5028.3	5098.6	5147.3	5261.0	5380.1	5380.1	5656.1	6078.3	6484.2	6911.8	7453.1
12.5°	5006.6	4963.3	4974.1	5033.7	5120.3	5228.5	5488.3	5867.2	6381.4	6879.4	7545.1
15°	5077.0	5093.2	4995.8	5071.6	5104.0	5141.9	5428.8	5856.4	6316.4	6993.0	7702.1
17.5°	5450.4	5358.4	5206.9	5136.5	5250.2	5250.2	5445.0	5780.6	6327.3	7052.6	7929.4
20°	5742.7	5742.7	5493.7	5418.0	5499.2	5482.9	5618.2	5867.2	6381.4	7171.6	8183.8
22.5°	6235.3	6305.6	5894.3	5737.3	5731.9	5775.2	5894.3	6105.4	6533.0	7339.4	8427.3
25°	6944.3	6960.5	6484.2	6321.9	6148.7	6219.0	6240.7	6451.8	6668.3	7534.3	8703.4
27.5°	7734.5	7723.7	7285.3	6879.4	6765.7	6781.9	6662.9	6803.6	6868.5	7593.8	9098.5
30°	8611.4	8513.9	8183.8	7610.0	7518.0	7415.2	7155.4	7150.0	7285.3	7929.4	9645.2
32.5°	9185.1	9060.6	8833.3	8421.9	8167.5	8178.4	7767.0	7761.6	7642.5	8297.4	10121.5
35°	9748.0	9558.6	9499.0	9076.9	8822.5	8849.5	8519.4	8476.1	8259.6	8854.9	10906.3
37.5°	10424.6	10256.8	10348.8	10029.5	9715.5	9585.6	9434.1	9380.0	9098.5	9639.8	11978.0
40°	11171.5	11117.4	11057.8	10900.9	10711.4	10722.3	10559.9	10505.8	10089.0	10587.0	13006.4
42.5°	12178.2	11972.6	11664.1	11766.9	11864.3	11967.2	11913.0	11772.3	11339.3	11550.4	14153.8
45°	13114.6	12844.0	12275.7	12308.1	12708.7	12789.9	13444.8	13428.5	12557.1	12773.6	15458.3
47.5°	13747.9	13623.4	13282.4	13244.5	13818.2	13812.8	14992.8	14992.8	13839.9	13991.5	16860.1
50°	14689.7	14364.9	14218.8	14408.2	14700.5	14900.8	16573.2	16676.1	15101.0	15263.4	18695.0
52.5°	15793.8	15387.9	15019.8	15507.0	16026.6	16156.5	18137.5	18094.2	16069.9	16741.0	20843.7
55°	16708.6	16502.9	16248.5	16529.9	17379.7	17542.1	19707.1	19306.6	17038.7	17964.3	21877.5
57.5°	17774.8	17899.3	17953.4	17883.1	18895.2	19149.6	21498.7	20351.2	17872.3	18787.0	22483.7
60°	19382.4	19458.1	19528.5	19696.3	20768.0	21125.2	22916.8	21661.0	18397.3	19263.3	22532.5
62.5°	21828.8	21536.5	21693.5	22272.7	23133.3	23539.2	25006.0	22581.2	18797.8	19550.1	20941.2
65°	24627.1	24232.0	24069.6	24816.6	27046.5	26721.8	27614.8	23268.6	18218.7	18478.5	17758.6
67.5°	27463.3	27506.6	27089.8	28589.1	31322.4	31322.4	30039.7	23598.7	16649.0	14976.5	12454.3
70°	29714.9	29850.2	30077.6	32984.1	37314.1	37969.1	33043.6	22245.6	13450.2	9969.9	6809.0
72.5°	29682.4	29276.5	30440.2	35793.2	42759.2	42212.5	33671.5	17590.8	8394.9	4882.1	3123.0
73°	29016.7	28675.7	29947.7	35766.2	42981.1	42466.9	33211.4	16216.0	7404.4	4232.6	2776.6
75°	23696.2	23079.1	25244.1	32394.1	39766.0	40161.1	28215.6	10576.1	4059.4	2608.9	1953.9
77.5°	10803.5	11074.1	13894.0	21731.4	30645.9	31111.4	18548.8	4573.6	2224.6	1829.4	1439.7
80°	3469.4	3642.6	5407.1	10803.5	19209.2	20048.1	8573.5	2078.4	1585.9	1401.9	1077.1
82.5°	1326.1	1320.7	2267.9	4492.4	9103.9	9639.8	3133.9	1266.5	1179.9	1033.8	763.2
85°	465.5	487.1	855.2	1775.3	3583.1	3750.9	1087.9	703.6	817.3	692.8	438.4
87.5°	162.4	167.8	303.1	644.1	1234.1	1304.4	303.1	281.5	405.9	400.5	221.9
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: P478149
 CATALOG NUMBER: IFLD-L-SA8C-735-U-T4FT

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7339.4	7339.4	7339.4	7339.4	7339.4	7339.4	7339.4	7339.4	7339.4	7339.4	7339.4
2.5°	7415.2	7463.9	7480.1	7675.0	7675.0	7675.0	7750.8	7750.8	7729.1	7675.0	7804.9
5°	7447.7	7534.3	7702.1	7869.9	7913.2	7951.0	8053.9	7967.3	7999.8	7945.6	7994.3
7.5°	7539.7	7658.8	7972.7	8075.5	8005.2	8086.4	7978.1	7918.6	7859.0	7880.7	7804.9
10°	7696.7	7848.2	7994.3	8183.8	8048.5	7967.3	7745.4	7691.2	7501.8	7436.8	7496.4
12.5°	7891.5	8075.5	8324.5	8254.1	7994.3	7761.6	7523.4	7296.1	7182.5	7020.1	7063.4
15°	8086.4	8297.4	8335.3	8216.3	7891.5	7599.2	7166.2	6846.9	6733.2	6587.1	6662.9
17.5°	8297.4	8497.7	8432.8	8124.2	7685.8	7242.0	6749.5	6435.5	6197.4	6105.4	6105.4
20°	8611.4	8708.8	8606.0	7972.7	7436.8	6852.3	6376.0	6018.8	5780.6	5742.7	5683.2
22.5°	8854.9	9011.9	8551.8	7750.8	7074.2	6343.5	5796.8	5661.5	5591.2	5531.6	5455.9
25°	9168.9	9163.5	8454.4	7545.1	6451.8	5737.3	5407.1	5396.3	5363.8	5342.2	5445.0
27.5°	9466.6	9342.1	8340.7	7036.3	5807.7	5277.2	5098.6	5217.7	5266.4	5233.9	5277.2
30°	9937.4	9731.8	8178.4	6495.1	5239.4	4811.8	4844.2	5006.6	5087.8	5136.5	5071.6
32.5°	10435.4	10121.5	7842.8	5932.2	4736.0	4519.5	4595.3	4763.0	4860.5	4914.6	4974.1
35°	11155.3	10424.6	7501.8	5196.1	4373.3	4340.9	4384.2	4476.2	4616.9	4654.8	4671.0
37.5°	12042.9	10884.6	7041.7	4606.1	4091.9	4129.8	4173.1	4205.6	4211.0	4281.3	4254.3
40°	12930.6	11274.3	6370.6	4043.2	3799.6	4005.3	3983.6	3924.1	3875.4	3810.4	3794.2
42.5°	13710.0	11615.3	5623.6	3566.9	3539.8	3875.4	3805.0	3653.5	3539.8	3491.1	3409.9
45°	14586.8	12097.1	4871.3	3269.2	3339.5	3718.4	3696.8	3464.0	3317.9	3144.7	3123.0
47.5°	15723.5	12600.4	4151.4	2960.7	3150.1	3658.9	3669.7	3372.0	3160.9	2928.2	2895.7
50°	17179.4	13325.7	3604.8	2830.8	3036.4	3572.3	3588.5	3247.5	2971.5	2733.3	2711.7
52.5°	18575.9	14067.2	3150.1	2630.5	2960.7	3469.4	3507.3	3133.9	2814.5	2516.8	2533.1
55°	19279.5	13796.6	2760.4	2484.4	2787.5	3301.7	3442.4	3052.7	2576.4	2370.7	2365.3
57.5°	19436.5	13130.9	2451.9	2332.8	2641.3	3123.0	3334.1	2809.1	2468.1	2294.9	2273.3
60°	18922.3	11967.2	2208.3	2170.4	2457.3	2939.0	3085.2	2679.2	2359.9	2219.1	2186.7
62.5°	17655.7	10760.2	2040.5	2094.7	2300.3	2738.8	2928.2	2587.2	2257.0	2159.6	2089.2
65°	14478.6	8849.5	1905.2	1948.5	2138.0	2543.9	2830.8	2484.4	2165.0	2073.0	2067.6
67.5°	10029.5	6099.9	1797.0	1878.2	2008.1	2403.2	2733.3	2370.7	2045.9	2013.5	1970.2
70°	5136.5	3252.9	1656.2	1721.2	1867.3	2224.6	2560.1	2251.6	1921.5	1916.0	1861.9
72.5°	2603.4	1905.2	1493.9	1591.3	1694.1	1991.8	2343.6	2094.7	1764.5	1705.0	1618.4
73°	2251.6	1764.5	1466.8	1553.4	1650.8	1926.9	2278.7	2056.8	1742.8	1656.2	1575.1
75°	1640.0	1391.0	1315.3	1401.9	1477.6	1737.4	2062.2	1883.6	1602.1	1510.1	1434.3
77.5°	1228.6	1071.7	1093.3	1190.8	1255.7	1499.3	1834.9	1705.0	1450.6	1326.1	1293.6
80°	903.9	817.3	903.9	995.9	1044.6	1320.7	1672.5	1477.6	1223.2	1082.5	1055.4
82.5°	644.1	595.4	698.2	757.8	779.4	1093.3	1504.7	1179.9	925.5	741.5	682.0
85°	368.1	362.6	470.9	465.5	481.7	638.7	990.5	784.8	595.4	454.7	443.8
87.5°	162.4	178.6	238.2	189.4	200.3	303.1	422.2	292.3	243.6	135.3	102.8
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)