

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: P478225

Luminaire Tested: **IFLD-L-SA8A-750-U-T4FT**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478225
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8A-750-U-T4FT
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens
Light Source: (128) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

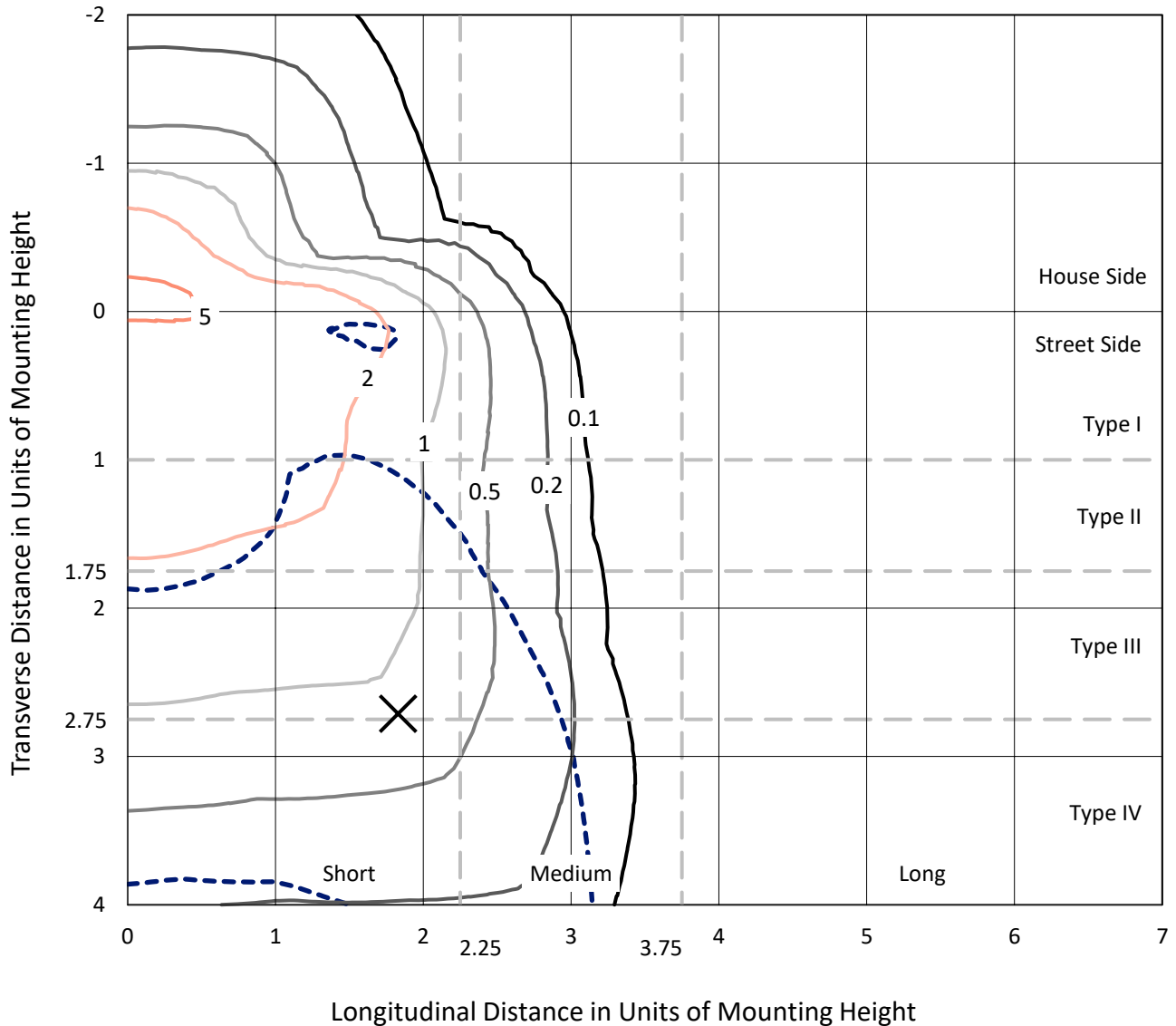
Lumens per Lamp: N/A
Luminaire Lumens: 35898.9 lumens
Efficiency: N/A
Efficacy: 144.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 247.8
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

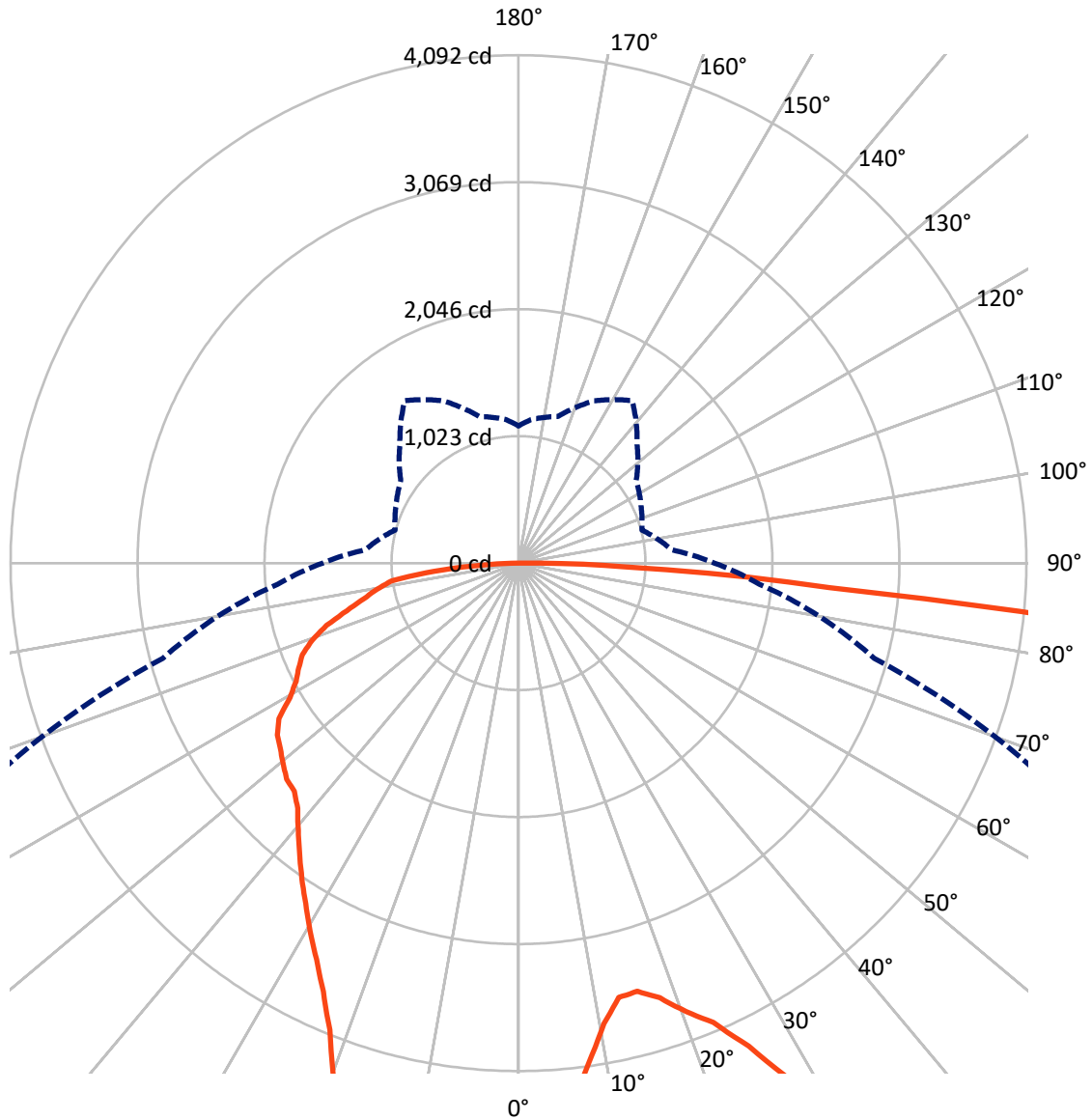
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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

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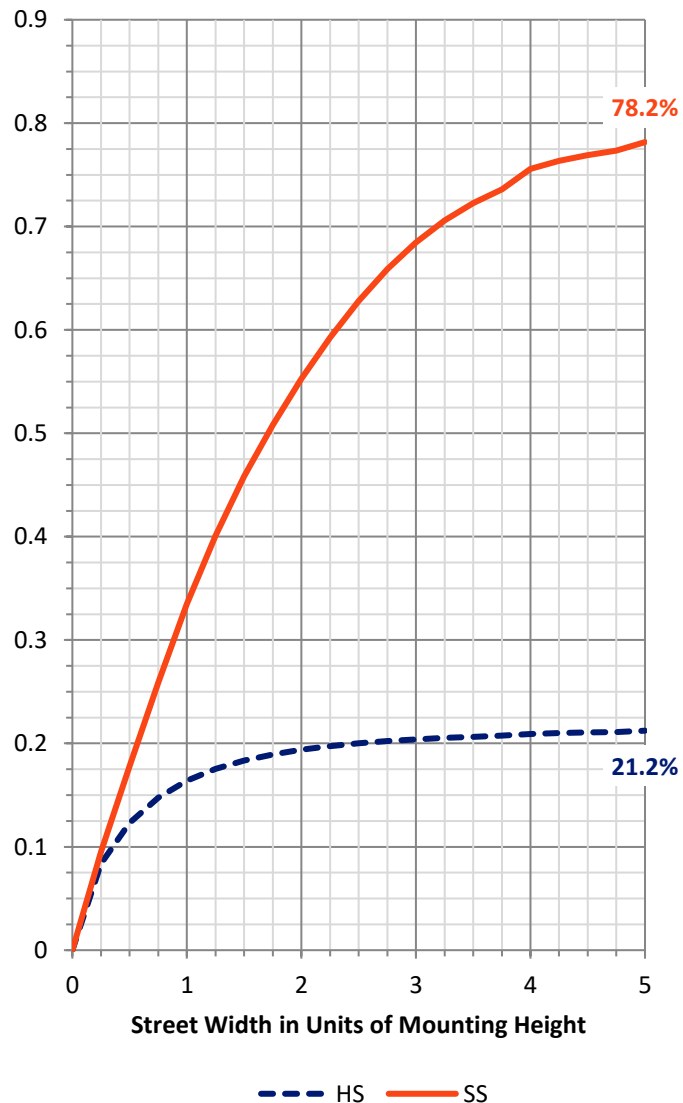
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7754.6	0.0	7754.6
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	28144.3	0.0	28144.3
	% Fixture	78.4	0.0	78.4
Total	Lumens	35898.9	0.0	35898.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	475.0	1.3
10°-20°	1329.4	3.7
20°-30°	2187.9	6.1
30°-40°	3272.0	9.1
40°-50°	4850.7	13.5
50°-60°	6990.3	19.5
60°-70°	8920.6	24.8
70°-80°	6941.7	19.3
80°-90°	931.3	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°	35898.9	100.0
0°-180°	35898.9	100.0

Coefficient of Utilization



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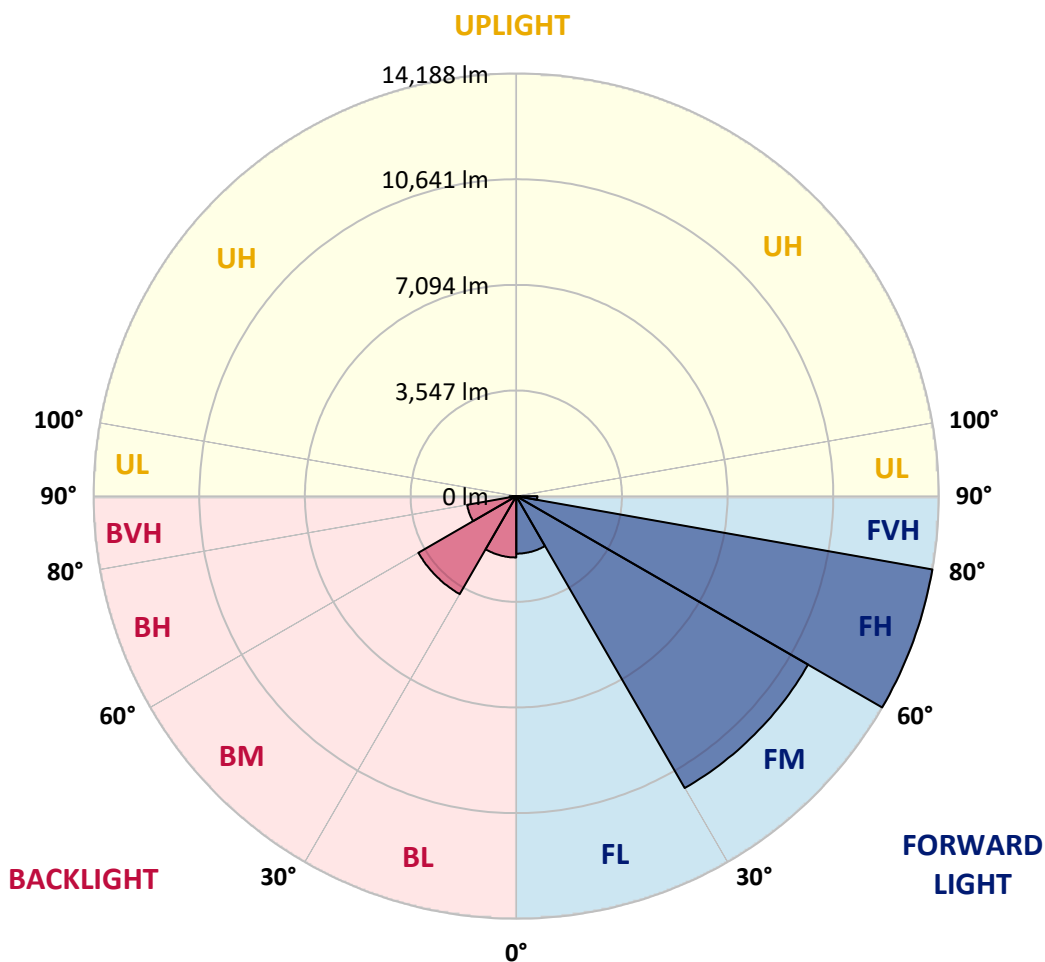
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1932.0	5.4			
FM (30°-60°)	11315.6	31.5			
FH (60°-80°)	14187.9	39.5			G5
FVH (80°-90°)	708.9	2.0			G4/750
BL (0°-30°)	2060.3	5.7	B3/2500		
BM (30°-60°)	3797.5	10.6	B3/5000		
BH (60°-80°)	1674.4	4.7	B3/2500		G3/2500
BVH (80°-90°)	222.4	0.6			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°	34°	35°	45°	55°	65°	75°	85°
0°	5146.7	5146.7	5146.7	5146.7	5146.7	5146.7	5146.7	5146.7	5146.7	5146.7	5146.7
2.5°	4611.5	4626.7	4676.0	4687.4	4740.6	4710.2	4774.7	4888.6	4953.1	5048.0	5161.9
5°	4247.1	4182.6	4213.0	4330.6	4391.4	4406.6	4474.9	4668.4	4789.9	4930.3	5142.9
7.5°	3818.3	3806.9	3867.6	3943.5	4065.0	4076.3	4228.2	4399.0	4649.5	4960.7	5211.2
10°	3526.0	3575.3	3609.5	3689.2	3772.7	3772.7	3966.3	4262.3	4547.0	4846.8	5226.4
12.5°	3510.8	3480.5	3488.0	3529.8	3590.5	3666.4	3848.6	4114.3	4474.9	4824.1	5290.9
15°	3560.2	3571.5	3503.2	3556.4	3579.1	3605.7	3806.9	4106.7	4429.3	4903.8	5401.0
17.5°	3822.0	3757.5	3651.3	3601.9	3681.6	3681.6	3818.3	4053.6	4436.9	4945.5	5560.4
20°	4027.0	4027.0	3852.4	3799.3	3856.2	3844.8	3939.7	4114.3	4474.9	5029.0	5738.8
22.5°	4372.4	4421.7	4133.3	4023.2	4019.4	4049.8	4133.3	4281.3	4581.1	5146.7	5909.6
25°	4869.6	4881.0	4547.0	4433.1	4311.7	4361.0	4376.2	4524.2	4676.0	5283.3	6103.1
27.5°	5423.7	5416.2	5108.7	4824.1	4744.4	4755.7	4672.2	4770.9	4816.5	5325.1	6380.2
30°	6038.6	5970.3	5738.8	5336.4	5271.9	5199.8	5017.6	5013.8	5108.7	5560.4	6763.5
32.5°	6440.9	6353.6	6194.2	5905.8	5727.4	5735.0	5446.5	5442.7	5359.2	5818.5	7097.5
35°	6835.7	6702.8	6661.1	6365.0	6186.6	6205.6	5974.1	5943.7	5791.9	6209.4	7647.9
37.5°	7310.1	7192.4	7257.0	7033.0	6812.9	6721.8	6615.5	6577.6	6380.2	6759.8	8399.4
40°	7833.9	7795.9	7754.2	7644.1	7511.3	7518.8	7405.0	7367.0	7074.8	7424.0	9120.5
42.5°	8539.8	8395.6	8179.3	8251.4	8319.7	8391.8	8353.9	8255.2	7951.5	8099.6	9925.2
45°	9196.4	9006.7	8608.1	8630.9	8911.8	8968.7	9428.0	9416.6	8805.5	8957.3	10839.9
47.5°	9640.5	9553.2	9314.1	9287.5	9689.9	9686.1	10513.5	10513.5	9705.0	9811.3	11822.9
50°	10300.9	10073.2	9970.7	10103.6	10308.5	10449.0	11621.8	11693.9	10589.4	10703.3	13109.6
52.5°	11075.2	10790.6	10532.5	10874.1	11238.4	11329.5	12718.7	12688.3	11268.8	11739.4	14616.4
55°	11716.6	11572.4	11394.0	11591.4	12187.3	12301.2	13819.3	13538.5	11948.2	12597.2	15341.3
57.5°	12464.4	12551.7	12589.6	12540.3	13250.0	13428.4	15075.6	14271.0	12532.7	13174.1	15766.4
60°	13591.6	13644.8	13694.1	13811.8	14563.3	14813.8	16070.1	15189.5	12900.8	13508.1	15800.6
62.5°	15307.2	15102.2	15212.3	15618.4	16221.9	16506.5	17535.1	15834.7	13181.7	13709.3	14684.7
65°	17269.4	16992.4	16878.5	17402.3	18966.0	18738.3	19364.5	16316.8	12775.6	12957.8	12453.0
67.5°	19258.3	19288.6	18996.4	20047.7	21964.4	21964.4	21064.9	16548.3	11674.9	10502.1	8733.4
70°	20837.2	20932.1	21091.5	23129.7	26166.0	26625.3	23171.4	15599.4	9431.8	6991.3	4774.7
72.5°	20814.4	20529.8	21345.8	25099.5	29984.3	29601.0	23611.7	12335.3	5886.8	3423.5	2190.0
73°	20347.6	20108.5	21000.4	25080.5	30139.9	29779.3	23289.1	11371.3	5192.2	2968.1	1947.1
75°	16616.6	16183.9	17702.1	22715.9	27885.4	28162.5	19785.8	7416.4	2846.6	1829.4	1370.2
77.5°	7575.8	7765.6	9743.0	15238.9	21490.0	21816.4	13007.1	3207.2	1559.9	1282.9	1009.6
80°	2432.9	2554.4	3791.7	7575.8	13470.2	14058.5	6012.0	1457.5	1112.1	983.0	755.3
82.5°	929.9	926.1	1590.3	3150.2	6384.0	6759.8	2197.6	888.1	827.4	724.9	535.2
85°	326.4	341.6	599.7	1244.9	2512.6	2630.3	762.9	493.4	573.1	485.8	307.4
87.5°	113.9	117.7	212.5	451.7	865.4	914.7	212.5	197.4	284.7	280.9	155.6
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°	5146.7	5146.7	5146.7	5146.7	5146.7	5146.7	5146.7	5146.7	5146.7	5146.7	5146.7
2.5°	5199.8	5234.0	5245.4	5382.0	5382.0	5382.0	5435.1	5435.1	5419.9	5382.0	5473.1
5°	5222.6	5283.3	5401.0	5518.6	5549.0	5575.6	5647.7	5586.9	5609.7	5571.8	5605.9
7.5°	5287.1	5370.6	5590.7	5662.9	5613.5	5670.4	5594.5	5552.8	5511.0	5526.2	5473.1
10°	5397.2	5503.4	5605.9	5738.8	5643.9	5586.9	5431.3	5393.4	5260.5	5215.0	5256.7
12.5°	5533.8	5662.9	5837.4	5788.1	5605.9	5442.7	5275.7	5116.3	5036.6	4922.7	4953.1
15°	5670.4	5818.5	5845.0	5761.5	5533.8	5328.9	5025.2	4801.3	4721.6	4619.1	4672.2
17.5°	5818.5	5958.9	5913.4	5697.0	5389.6	5078.4	4733.0	4512.8	4345.8	4281.3	4281.3
20°	6038.6	6106.9	6034.8	5590.7	5215.0	4805.1	4471.1	4220.6	4053.6	4027.0	3985.3
22.5°	6209.4	6319.5	5996.9	5435.1	4960.7	4448.3	4065.0	3970.1	3920.7	3879.0	3825.8
25°	6429.5	6425.7	5928.5	5290.9	4524.2	4023.2	3791.7	3784.1	3761.3	3746.1	3818.3
27.5°	6638.3	6551.0	5848.8	4934.1	4072.6	3700.6	3575.3	3658.8	3693.0	3670.2	3700.6
30°	6968.5	6824.3	5735.0	4554.6	3674.0	3374.2	3397.0	3510.8	3567.8	3601.9	3556.4
32.5°	7317.7	7097.5	5499.7	4159.8	3321.0	3169.2	3222.4	3340.0	3408.3	3446.3	3488.0
35°	7822.5	7310.1	5260.5	3643.7	3066.7	3044.0	3074.3	3138.9	3237.5	3264.1	3275.5
37.5°	8444.9	7632.7	4937.9	3230.0	2869.4	2896.0	2926.3	2949.1	2952.9	3002.2	2983.2
40°	9067.4	7906.0	4467.3	2835.2	2664.4	2808.7	2793.5	2751.7	2717.6	2672.0	2660.6
42.5°	9614.0	8145.1	3943.5	2501.2	2482.2	2717.6	2668.2	2561.9	2482.2	2448.1	2391.2
45°	10228.8	8482.9	3415.9	2292.5	2341.8	2607.5	2592.3	2429.1	2326.6	2205.2	2190.0
47.5°	11025.9	8835.9	2911.1	2076.1	2209.0	2565.7	2573.3	2364.6	2216.6	2053.4	2030.6
50°	12046.9	9344.5	2527.8	1985.0	2129.3	2505.0	2516.4	2277.3	2083.7	1916.7	1901.5
52.5°	13026.1	9864.5	2209.0	1844.6	2076.1	2432.9	2459.5	2197.6	1973.6	1764.9	1776.3
55°	13519.5	9674.7	1935.7	1742.1	1954.7	2315.2	2413.9	2140.7	1806.6	1662.4	1658.6
57.5°	13629.6	9207.8	1719.4	1635.9	1852.2	2190.0	2338.0	1969.9	1730.7	1609.3	1594.1
60°	13269.0	8391.8	1548.6	1522.0	1723.1	2060.9	2163.4	1878.8	1654.8	1556.1	1533.4
62.5°	12380.9	7545.4	1430.9	1468.9	1613.1	1920.5	2053.4	1814.2	1582.7	1514.4	1465.1
65°	10152.9	6205.6	1336.0	1366.4	1499.2	1783.9	1985.0	1742.1	1518.2	1453.7	1449.9
67.5°	7033.0	4277.5	1260.1	1317.0	1408.1	1685.2	1916.7	1662.4	1434.7	1411.9	1381.6
70°	3601.9	2281.1	1161.4	1207.0	1309.4	1559.9	1795.3	1578.9	1347.4	1343.6	1305.6
72.5°	1825.6	1336.0	1047.6	1115.9	1188.0	1396.7	1643.4	1468.9	1237.3	1195.6	1134.8
73°	1578.9	1237.3	1028.6	1089.3	1157.6	1351.2	1597.9	1442.3	1222.1	1161.4	1104.5
75°	1150.0	975.4	922.3	983.0	1036.2	1218.3	1446.1	1320.8	1123.5	1058.9	1005.8
77.5°	861.6	751.5	766.7	835.0	880.6	1051.3	1286.7	1195.6	1017.2	929.9	907.1
80°	633.8	573.1	633.8	698.4	732.5	926.1	1172.8	1036.2	857.8	759.1	740.1
82.5°	451.7	417.5	489.6	531.4	546.5	766.7	1055.1	827.4	649.0	520.0	478.2
85°	258.1	254.3	330.2	326.4	337.8	447.9	694.6	550.3	417.5	318.8	311.2
87.5°	113.9	125.3	167.0	132.8	140.4	212.5	296.0	205.0	170.8	94.9	72.1
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)