

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: P478216

Luminaire Tested: **IFLD-M-SA4B-750-U-T4FT**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478216
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4B-750-U-T4FT
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens
Light Source: (64) 5000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

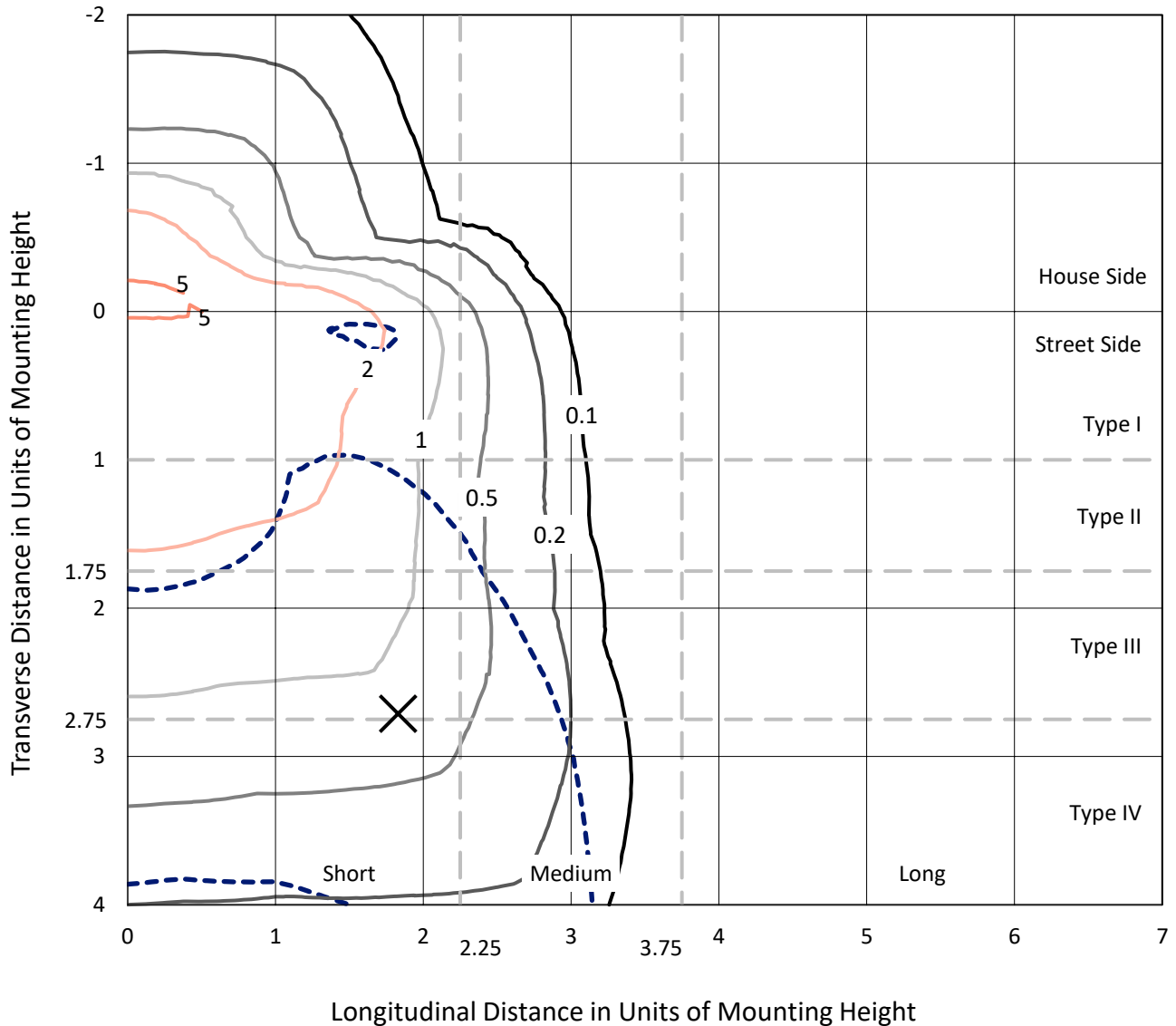
Lumens per Lamp: N/A
Luminaire Lumens: 23934.6 lumens
Efficiency: N/A
Efficacy: 144.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 166.1
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

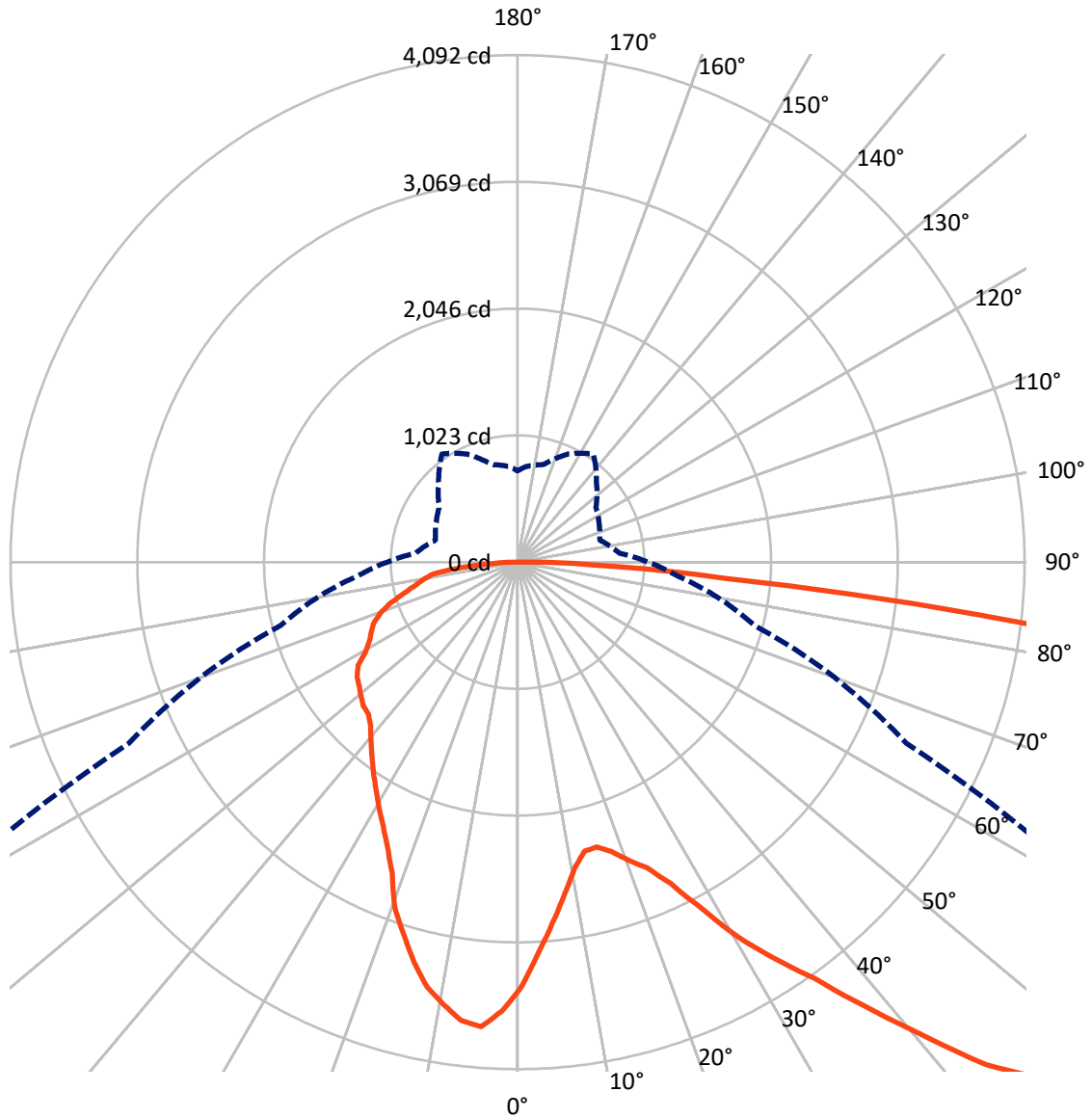
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 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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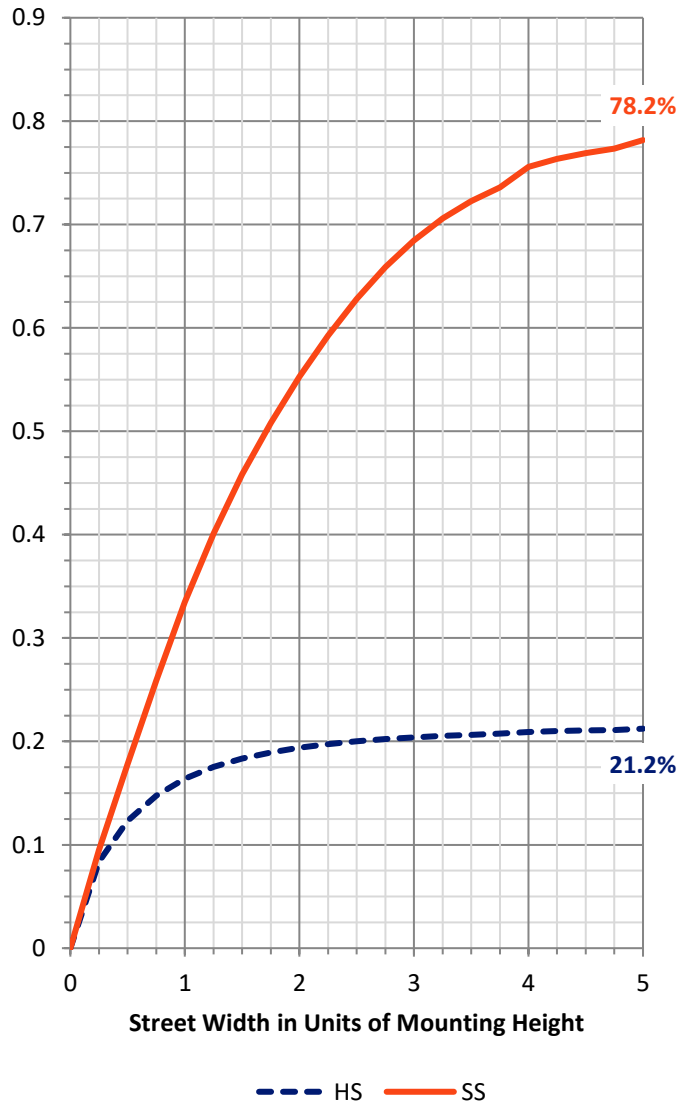
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5170.2	0.0	5170.2
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	18764.5	0.0	18764.5
	% Fixture	78.4	0.0	78.4
Total	Lumens	23934.6	0.0	23934.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	316.7	1.3
10°-20°	886.3	3.7
20°-30°	1458.8	6.1
30°-40°	2181.5	9.1
40°-50°	3234.1	13.5
50°-60°	4660.6	19.5
60°-70°	5947.6	24.8
70°-80°	4628.2	19.3
80°-90°	620.9	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°	23934.6	100.0
0°-180°	23934.6	100.0

Coefficient of Utilization



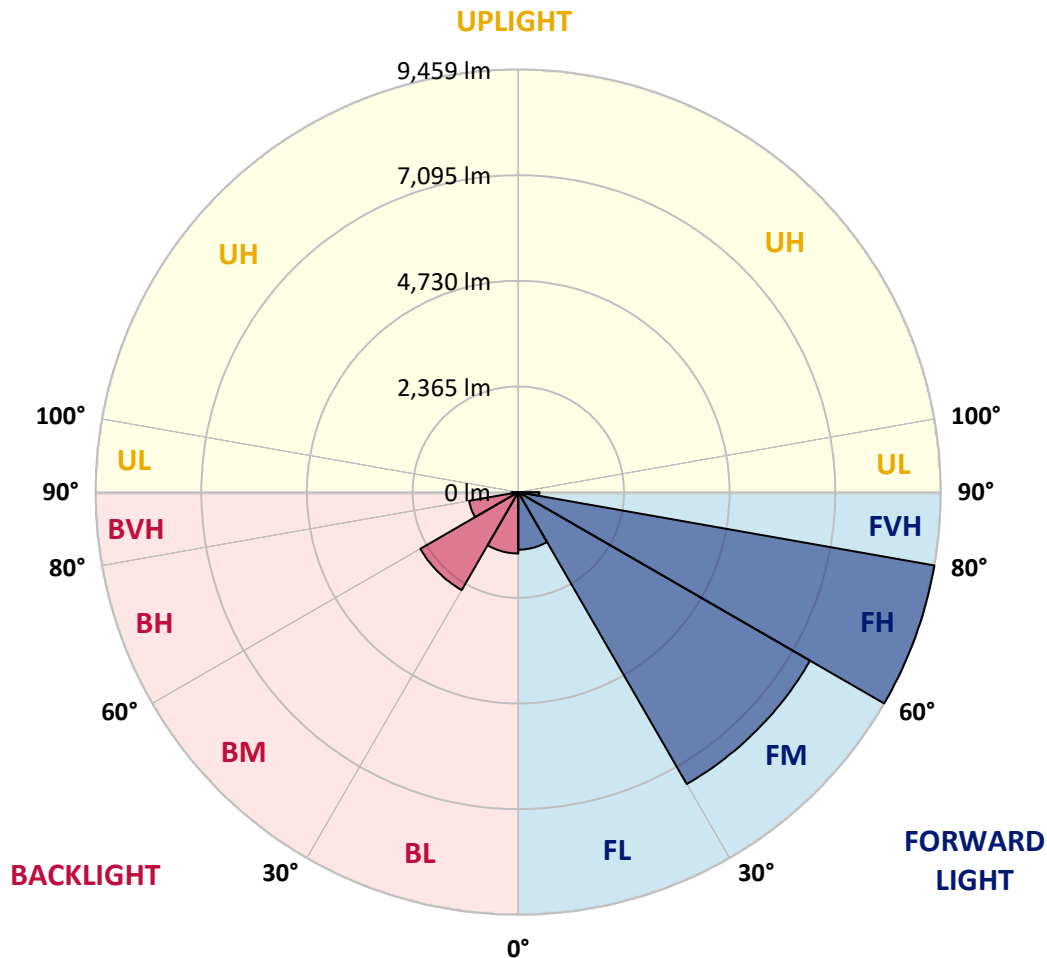
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1288.1	5.4			
FM (30°-60°)	7544.4	31.5			
FH (60°-80°)	9459.4	39.5			G4/12000
FVH (80°-90°)	472.6	2.0			G3/500
BL (0°-30°)	1373.7	5.7	B3/2500		
BM (30°-60°)	2531.8	10.6	B3/5000		
BH (60°-80°)	1116.4	4.7	B3/2500		G3/2500
BVH (80°-90°)	148.3	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-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	3431.4	3431.4	3431.4	3431.4	3431.4	3431.4	3431.4	3431.4	3431.4	3431.4	3431.4
2.5°	3074.6	3084.7	3117.6	3125.2	3160.6	3140.4	3183.4	3259.3	3302.4	3365.6	3441.5
5°	2831.7	2788.7	2808.9	2887.3	2927.8	2938.0	2983.5	3112.6	3193.5	3287.2	3428.9
7.5°	2545.7	2538.1	2578.6	2629.2	2710.2	2717.8	2819.0	2932.9	3099.9	3307.4	3474.4
10°	2350.9	2383.8	2406.5	2459.7	2515.4	2515.4	2644.4	2841.8	3031.6	3231.5	3484.5
12.5°	2340.7	2320.5	2325.6	2353.4	2393.9	2444.5	2566.0	2743.1	2983.5	3216.3	3527.6
15°	2373.6	2381.2	2335.7	2371.1	2386.3	2404.0	2538.1	2738.0	2953.1	3269.5	3601.0
17.5°	2548.3	2505.2	2434.4	2401.5	2454.6	2454.6	2545.7	2702.6	2958.2	3297.3	3707.2
20°	2684.9	2684.9	2568.5	2533.1	2571.0	2563.4	2626.7	2743.1	2983.5	3353.0	3826.2
22.5°	2915.2	2948.1	2755.8	2682.4	2679.8	2700.1	2755.8	2854.4	3054.4	3431.4	3940.0
25°	3246.7	3254.3	3031.6	2955.7	2874.7	2907.6	2917.7	3016.4	3117.6	3522.5	4069.1
27.5°	3616.1	3611.1	3406.1	3216.3	3163.2	3170.8	3115.1	3180.9	3211.3	3550.3	4253.8
30°	4026.1	3980.5	3826.2	3557.9	3514.9	3466.8	3345.4	3342.8	3406.1	3707.2	4509.4
32.5°	4294.3	4236.1	4129.8	3937.5	3818.6	3823.6	3631.3	3628.8	3573.1	3879.3	4732.1
35°	4557.5	4468.9	4441.1	4243.7	4124.8	4137.4	3983.1	3962.8	3861.6	4140.0	5099.0
37.5°	4873.8	4795.4	4838.4	4689.1	4542.3	4481.6	4410.7	4385.4	4253.8	4506.9	5600.1
40°	5223.0	5197.7	5169.9	5096.5	5007.9	5013.0	4937.1	4911.8	4716.9	4949.7	6080.9
42.5°	5693.7	5597.5	5453.3	5501.4	5546.9	5595.0	5569.7	5503.9	5301.5	5400.2	6617.4
45°	6131.5	6005.0	5739.3	5754.4	5941.7	5979.7	6285.9	6278.3	5870.8	5972.1	7227.2
47.5°	6427.6	6369.4	6209.9	6192.2	6460.5	6457.9	7009.6	7009.6	6470.6	6541.4	7882.6
50°	6867.9	6716.0	6647.7	6736.3	6872.9	6966.6	7748.5	7796.6	7060.2	7136.1	8740.5
52.5°	7384.1	7194.3	7022.2	7250.0	7492.9	7553.7	8479.8	8459.6	7513.2	7826.9	9745.1
55°	7811.8	7715.6	7596.7	7728.3	8125.6	8201.5	9213.7	9026.4	7966.1	8398.9	10228.4
57.5°	8310.3	8368.5	8393.8	8360.9	8834.1	8953.0	10051.3	9514.8	8355.8	8783.5	10511.8
60°	9061.9	9097.3	9130.2	9208.6	9709.7	9876.7	10714.3	10127.2	8601.3	9006.2	10534.6
62.5°	10205.7	10069.0	10142.4	10413.2	10815.5	11005.3	11691.1	10557.4	8788.6	9140.3	9790.6
65°	11513.9	11329.2	11253.3	11602.5	12645.1	12493.3	12910.8	10878.8	8517.8	8639.3	8302.7
67.5°	12839.9	12860.2	12665.3	13366.3	14644.2	14644.2	14044.5	11033.1	7783.9	7002.0	5822.8
70°	13892.6	13955.9	14062.2	15421.1	17445.5	17751.7	15448.9	10400.5	6288.4	4661.2	3183.4
72.5°	13877.5	13687.7	14231.7	16734.4	19991.2	19735.7	15742.5	8224.2	3924.9	2282.5	1460.1
73°	13566.2	13406.8	14001.5	16721.8	20095.0	19854.6	15527.4	7581.5	3461.8	1978.9	1298.2
75°	11078.7	10790.2	11802.4	15145.3	18591.9	18776.6	13191.7	4944.7	1897.9	1219.7	913.5
77.5°	5051.0	5177.5	6495.9	10160.1	14327.9	14545.5	8672.1	2138.3	1040.1	855.3	673.1
80°	1622.1	1703.1	2528.0	5051.0	8980.9	9373.1	4008.4	971.7	741.4	655.4	503.6
82.5°	620.0	617.5	1060.3	2100.3	4256.4	4506.9	1465.2	592.1	551.7	483.3	356.8
85°	217.6	227.7	399.8	830.0	1675.2	1753.7	508.6	329.0	382.1	323.9	205.0
87.5°	75.9	78.4	141.7	301.1	577.0	609.9	141.7	131.6	189.8	187.3	103.8
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°	3431.4	3431.4	3431.4	3431.4	3431.4	3431.4	3431.4	3431.4	3431.4	3431.4	3431.4
2.5°	3466.8	3489.6	3497.2	3588.3	3588.3	3588.3	3623.7	3623.7	3613.6	3588.3	3649.0
5°	3482.0	3522.5	3601.0	3679.4	3699.6	3717.4	3765.4	3724.9	3740.1	3714.8	3737.6
7.5°	3525.0	3580.7	3727.5	3775.6	3742.7	3780.6	3730.0	3702.2	3674.3	3684.5	3649.0
10°	3598.4	3669.3	3737.6	3826.2	3762.9	3724.9	3621.2	3595.9	3507.3	3477.0	3504.8
12.5°	3689.5	3775.6	3892.0	3859.1	3737.6	3628.8	3517.4	3411.2	3358.0	3282.1	3302.4
15°	3780.6	3879.3	3897.0	3841.4	3689.5	3552.9	3350.4	3201.1	3148.0	3079.7	3115.1
17.5°	3879.3	3972.9	3942.6	3798.3	3593.4	3385.9	3155.6	3008.8	2897.5	2854.4	2854.4
20°	4026.1	4071.6	4023.6	3727.5	3477.0	3203.7	2981.0	2814.0	2702.6	2684.9	2657.1
22.5°	4140.0	4213.3	3998.2	3623.7	3307.4	2965.8	2710.2	2646.9	2614.0	2586.2	2550.8
25°	4286.7	4284.2	3952.7	3527.6	3016.4	2682.4	2528.0	2522.9	2507.8	2497.6	2545.7
27.5°	4425.9	4367.7	3899.6	3289.7	2715.3	2467.3	2383.8	2439.4	2462.2	2447.0	2467.3
30°	4646.1	4549.9	3823.6	3036.6	2449.6	2249.6	2264.8	2340.7	2378.7	2401.5	2371.1
32.5°	4878.9	4732.1	3666.7	2773.5	2214.2	2113.0	2148.4	2226.9	2272.4	2297.7	2325.6
35°	5215.4	4873.8	3507.3	2429.3	2044.7	2029.5	2049.7	2092.8	2158.5	2176.3	2183.9
37.5°	5630.4	5088.9	3292.2	2153.5	1913.1	1930.8	1951.0	1966.2	1968.8	2001.7	1989.0
40°	6045.5	5271.1	2978.4	1890.3	1776.4	1872.6	1862.5	1834.6	1811.9	1781.5	1773.9
42.5°	6409.8	5430.5	2629.2	1667.6	1655.0	1811.9	1779.0	1708.1	1655.0	1632.2	1594.2
45°	6819.8	5655.7	2277.5	1528.4	1561.3	1738.5	1728.4	1619.5	1551.2	1470.2	1460.1
47.5°	7351.2	5891.1	1940.9	1384.2	1472.8	1710.6	1715.7	1576.5	1477.8	1369.0	1353.8
50°	8031.9	6230.2	1685.3	1323.5	1419.6	1670.2	1677.7	1518.3	1389.3	1277.9	1267.8
52.5°	8684.8	6576.9	1472.8	1229.8	1384.2	1622.1	1639.8	1465.2	1315.9	1176.7	1184.3
55°	9013.8	6450.3	1290.6	1161.5	1303.2	1543.6	1609.4	1427.2	1204.5	1108.4	1105.8
57.5°	9087.2	6139.1	1146.3	1090.7	1234.9	1460.1	1558.8	1313.3	1153.9	1072.9	1062.8
60°	8846.8	5595.0	1032.5	1014.7	1148.9	1374.1	1442.4	1252.6	1103.3	1037.5	1022.3
62.5°	8254.6	5030.7	954.0	979.3	1075.5	1280.5	1369.0	1209.6	1055.2	1009.7	976.8
65°	6769.2	4137.4	890.7	911.0	999.6	1189.4	1323.5	1161.5	1012.2	969.2	966.7
67.5°	4689.1	2851.9	840.1	878.1	938.8	1123.6	1277.9	1108.4	956.5	941.4	921.1
70°	2401.5	1520.9	774.3	804.7	873.0	1040.1	1196.9	1052.7	898.3	895.8	870.5
72.5°	1217.2	890.7	698.4	744.0	792.1	931.2	1095.7	979.3	825.0	797.1	756.6
73°	1052.7	825.0	685.8	726.3	771.8	900.9	1065.4	961.6	814.8	774.3	736.4
75°	766.8	650.3	614.9	655.4	690.8	812.3	964.1	880.6	749.0	706.0	670.6
77.5°	574.4	501.0	511.2	556.7	587.1	701.0	857.9	797.1	678.2	620.0	604.8
80°	422.6	382.1	422.6	465.6	488.4	617.5	781.9	690.8	571.9	506.1	493.5
82.5°	301.1	278.4	326.4	354.3	364.4	511.2	703.5	551.7	432.7	346.7	318.8
85°	172.1	169.5	220.2	217.6	225.2	298.6	463.1	366.9	278.4	212.6	207.5
87.5°	75.9	83.5	111.3	88.6	93.6	141.7	197.4	136.6	113.9	63.3	48.1
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)