

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: P478120

Luminaire Tested: **IFLD-S-SA3D-735-U-T4FT**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478120
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3D-735-U-T4FT
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens
Light Source: (48) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

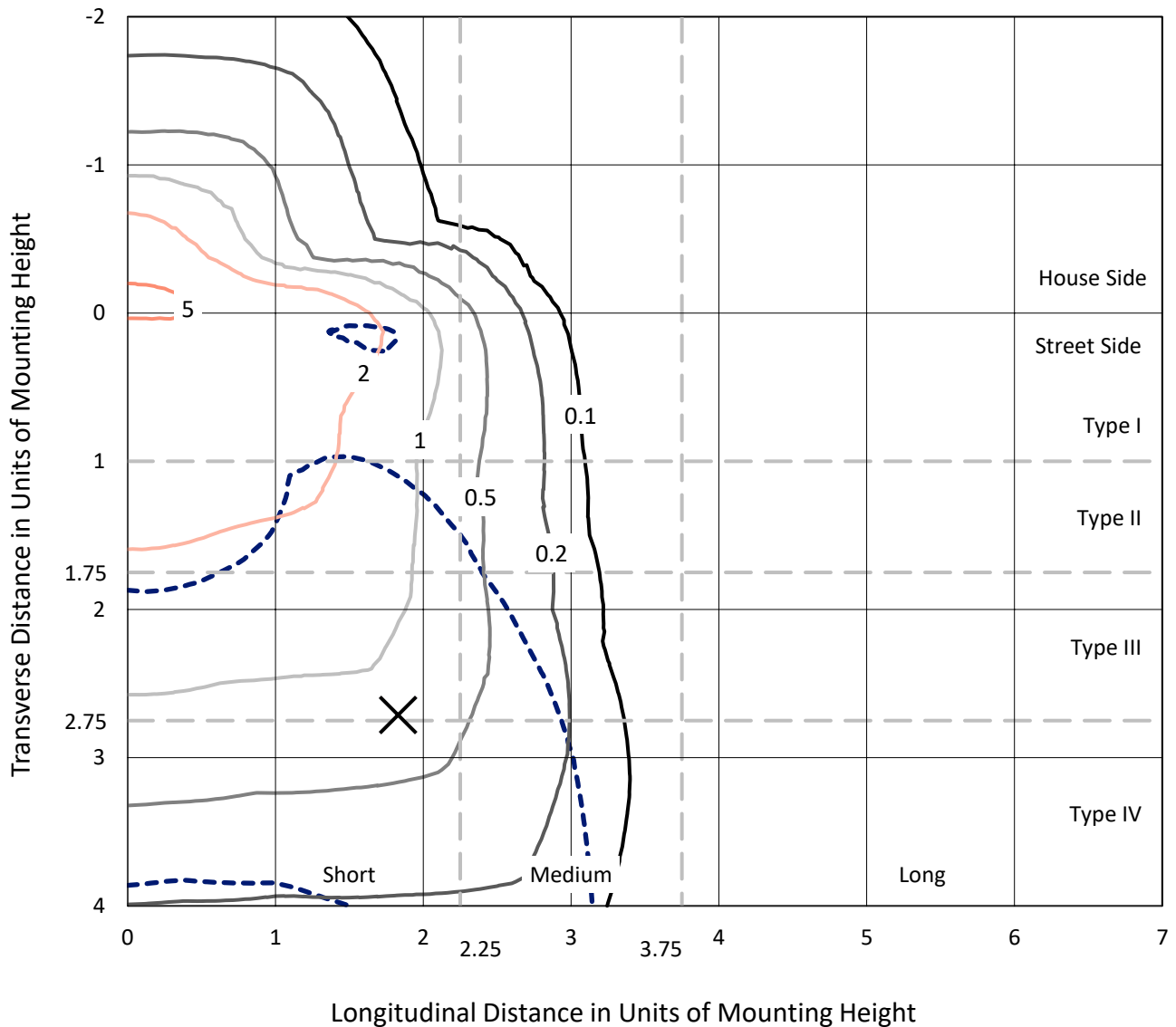
Lumens per Lamp: N/A
Luminaire Lumens: 23550.7 lumens
Efficiency: N/A
Efficacy: 127.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 184.1
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

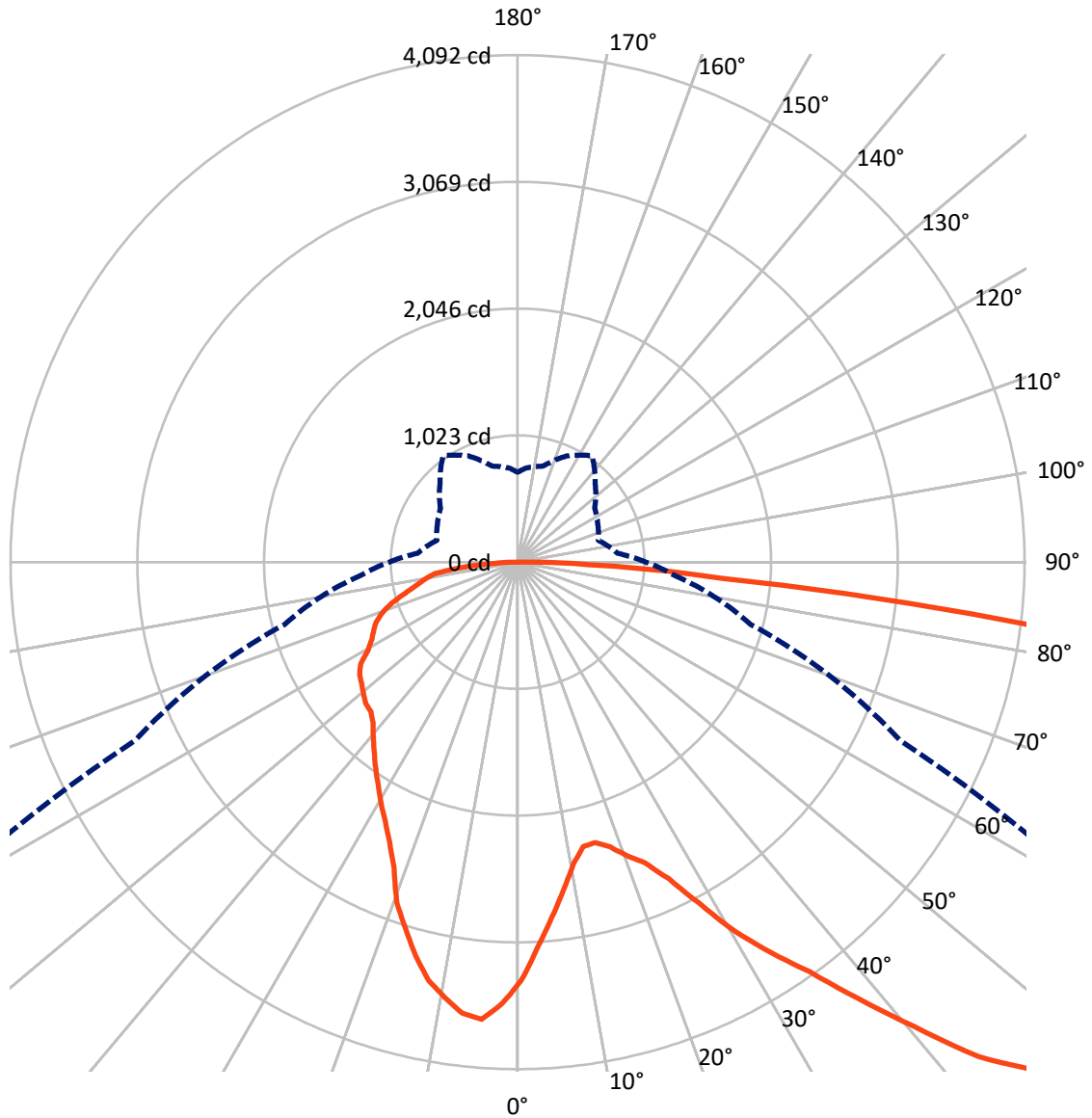
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 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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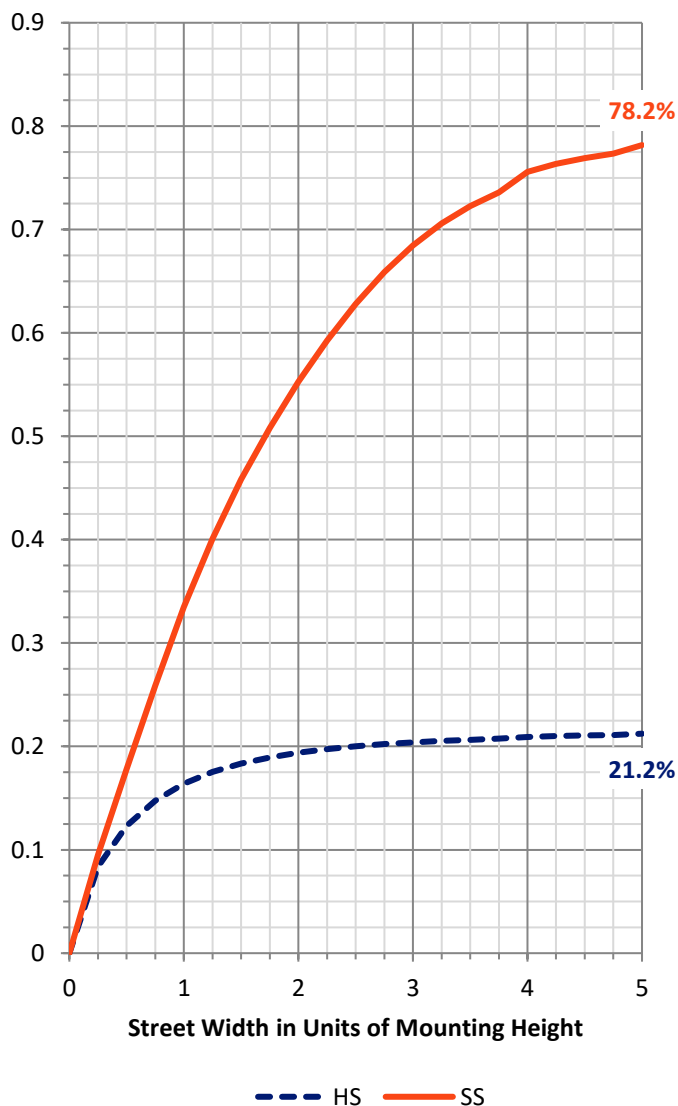
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5087.2	0.0	5087.2
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	18463.5	0.0	18463.5
	% Fixture	78.4	0.0	78.4
Total	Lumens	23550.7	0.0	23550.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	311.6	1.3
10°-20°	872.1	3.7
20°-30°	1435.4	6.1
30°-40°	2146.6	9.1
40°-50°	3182.2	13.5
50°-60°	4585.8	19.5
60°-70°	5852.2	24.8
70°-80°	4554.0	19.3
80°-90°	610.9	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°	23550.7	100.0
0°-180°	23550.7	100.0

Coefficient of Utilization



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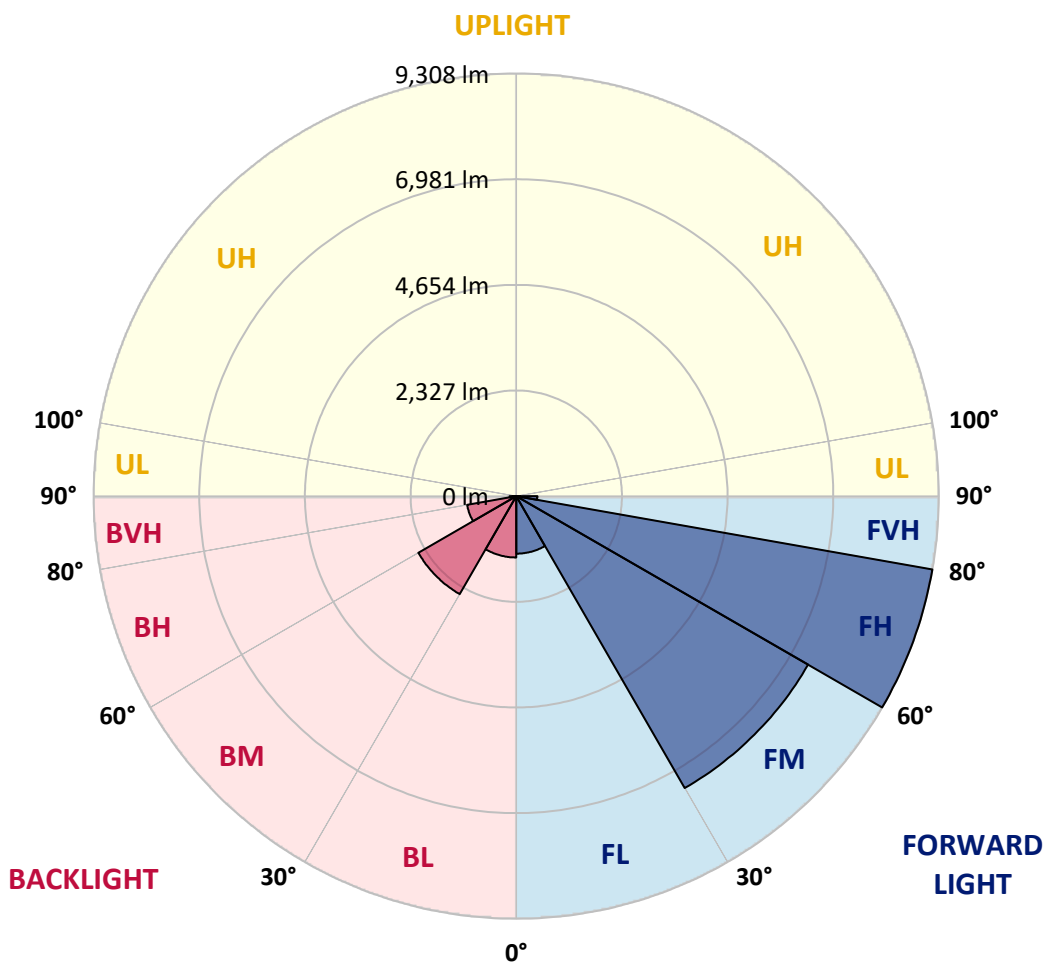
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1267.4	5.4			
FM (30°-60°)	7423.3	31.5			
FH (60°-80°)	9307.7	39.5			G4/12000
FVH (80°-90°)	465.0	2.0			G3/500
BL (0°-30°)	1351.6	5.7	B3/2500		
BM (30°-60°)	2491.2	10.6	B2/2500		
BH (60°-80°)	1098.4	4.7	B3/2500		G3/2500
BVH (80°-90°)	145.9	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°	3376.4	3376.4	3376.4	3376.4	3376.4	3376.4	3376.4	3376.4	3376.4	3376.4	3376.4
2.5°	3025.3	3035.2	3067.6	3075.1	3109.9	3090.0	3132.3	3207.0	3249.4	3311.6	3386.3
5°	2786.2	2743.9	2763.8	2841.0	2880.9	2890.8	2935.6	3062.6	3142.3	3234.4	3373.9
7.5°	2504.9	2497.4	2537.3	2587.1	2666.7	2674.2	2773.8	2885.8	3050.2	3254.4	3418.7
10°	2313.2	2345.5	2367.9	2420.2	2475.0	2475.0	2602.0	2796.2	2983.0	3179.7	3428.7
12.5°	2303.2	2283.3	2288.3	2315.6	2355.5	2405.3	2524.8	2699.1	2935.6	3164.7	3471.0
15°	2335.6	2343.0	2298.2	2333.1	2348.0	2365.4	2497.4	2694.1	2905.8	3217.0	3543.2
17.5°	2507.4	2465.0	2395.3	2363.0	2415.2	2415.2	2504.9	2659.3	2910.7	3244.4	3647.8
20°	2641.8	2641.8	2527.3	2492.4	2529.8	2522.3	2584.6	2699.1	2935.6	3299.2	3764.8
22.5°	2868.4	2900.8	2711.5	2639.3	2636.9	2656.8	2711.5	2808.7	3005.4	3376.4	3876.8
25°	3194.6	3202.1	2983.0	2908.3	2828.6	2860.9	2870.9	2968.0	3067.6	3466.0	4003.8
27.5°	3558.1	3553.1	3351.5	3164.7	3112.4	3119.9	3065.1	3129.9	3159.7	3493.4	4185.6
30°	3961.5	3916.7	3764.8	3500.9	3458.5	3411.2	3291.7	3289.2	3351.5	3647.8	4437.1
32.5°	4225.4	4168.2	4063.6	3874.4	3757.3	3762.3	3573.1	3570.6	3515.8	3817.1	4656.2
35°	4484.4	4397.2	4369.9	4175.6	4058.6	4071.1	3919.2	3899.3	3799.7	4073.5	5017.2
37.5°	4795.6	4718.4	4760.8	4613.9	4469.4	4409.7	4340.0	4315.1	4185.6	4434.6	5510.2
40°	5139.2	5114.3	5087.0	5014.7	4927.6	4932.6	4857.9	4833.0	4641.3	4870.3	5983.3
42.5°	5602.4	5507.8	5365.8	5413.1	5458.0	5505.3	5480.4	5415.6	5216.4	5313.5	6511.2
45°	6033.1	5908.6	5647.2	5662.1	5846.4	5883.7	6185.0	6177.5	5776.7	5876.3	7111.3
47.5°	6324.5	6267.2	6110.3	6092.9	6356.8	6354.3	6897.1	6897.1	6366.8	6436.5	7756.2
50°	6757.7	6608.3	6541.1	6628.2	6762.7	6854.8	7624.2	7671.5	6946.9	7021.6	8600.3
52.5°	7265.7	7078.9	6909.6	7133.7	7372.7	7432.5	8343.8	8323.9	7392.6	7701.4	9588.8
55°	7686.5	7591.8	7474.8	7604.3	7995.2	8069.9	9065.9	8881.6	7838.3	8264.1	10064.4
57.5°	8177.0	8234.2	8259.1	8226.8	8692.4	8809.4	9890.1	9362.2	8221.8	8642.6	10343.2
60°	8916.5	8951.3	8983.7	9060.9	9553.9	9718.2	10542.4	9964.8	8463.3	8861.7	10365.6
62.5°	10041.9	9907.5	9979.7	10246.1	10642.0	10828.8	11503.5	10388.0	8647.6	8993.7	9633.6
65°	11329.2	11147.5	11072.8	11416.4	12442.2	12292.9	12703.7	10704.3	8381.1	8500.7	8169.5
67.5°	12634.0	12653.9	12462.2	13151.9	14409.3	14409.3	13819.2	10856.2	7659.1	6889.7	5729.4
70°	13669.8	13732.0	13836.6	15173.7	17165.7	17467.0	15201.1	10233.7	6187.5	4586.5	3132.3
72.5°	13654.8	13468.1	14003.4	16466.0	19670.6	19419.1	15489.9	8092.3	3861.9	2245.9	1436.7
73°	13348.6	13191.7	13776.9	16453.5	19772.6	19536.1	15278.3	7459.9	3406.2	1947.1	1277.3
75°	10901.0	10617.1	11613.1	14902.3	18293.6	18475.4	12980.1	4865.3	1867.5	1200.2	898.9
77.5°	4969.9	5094.4	6391.7	9997.1	14098.1	14312.2	8533.0	2104.0	1023.4	841.6	662.3
80°	1596.1	1675.7	2487.5	4969.9	8836.8	9222.8	3944.1	956.1	729.6	644.9	495.5
82.5°	610.0	607.5	1043.3	2066.7	4188.1	4434.6	1441.7	582.6	542.8	475.6	351.1
85°	214.1	224.1	393.4	816.7	1648.3	1725.5	500.5	323.7	376.0	318.7	201.7
87.5°	74.7	77.2	139.4	296.3	567.7	600.1	139.4	129.5	186.7	184.3	102.1
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°	3376.4	3376.4	3376.4	3376.4	3376.4	3376.4	3376.4	3376.4	3376.4	3376.4	3376.4
2.5°	3411.2	3433.6	3441.1	3530.7	3530.7	3530.7	3565.6	3565.6	3555.6	3530.7	3590.5
5°	3426.2	3466.0	3543.2	3620.4	3640.3	3657.7	3705.0	3665.2	3680.1	3655.2	3677.6
7.5°	3468.5	3523.3	3667.7	3715.0	3682.6	3720.0	3670.2	3642.8	3615.4	3625.4	3590.5
10°	3540.7	3610.4	3677.6	3764.8	3702.5	3665.2	3563.1	3538.2	3451.1	3421.2	3448.6
12.5°	3630.3	3715.0	3829.5	3797.2	3677.6	3570.6	3461.0	3356.4	3304.2	3229.5	3249.4
15°	3720.0	3817.1	3834.5	3779.7	3630.3	3495.9	3296.7	3149.8	3097.5	3030.3	3065.1
17.5°	3817.1	3909.2	3879.3	3737.4	3535.7	3331.5	3105.0	2960.5	2851.0	2808.7	2808.7
20°	3961.5	4006.3	3959.0	3667.7	3421.2	3152.3	2933.2	2768.8	2659.3	2641.8	2614.4
22.5°	4073.5	4145.8	3934.1	3565.6	3254.4	2918.2	2666.7	2604.5	2572.1	2544.7	2509.9
25°	4218.0	4215.5	3889.3	3471.0	2968.0	2639.3	2487.5	2482.5	2467.5	2457.6	2504.9
27.5°	4354.9	4297.6	3837.0	3236.9	2671.7	2427.7	2345.5	2400.3	2422.7	2407.8	2427.7
30°	4571.5	4476.9	3762.3	2987.9	2410.3	2213.6	2228.5	2303.2	2340.5	2363.0	2333.1
32.5°	4800.6	4656.2	3607.9	2729.0	2178.7	2079.1	2114.0	2191.2	2236.0	2260.9	2288.3
35°	5131.8	4795.6	3451.1	2390.3	2011.9	1996.9	2016.9	2059.2	2123.9	2141.4	2148.8
37.5°	5540.1	5007.3	3239.4	2118.9	1882.4	1899.8	1919.7	1934.7	1937.2	1969.5	1957.1
40°	5948.5	5186.6	2930.7	1860.0	1747.9	1842.6	1832.6	1805.2	1782.8	1752.9	1745.5
42.5°	6307.0	5343.4	2587.1	1640.9	1628.4	1782.8	1750.4	1680.7	1628.4	1606.0	1568.7
45°	6710.4	5565.0	2240.9	1503.9	1536.3	1710.6	1700.6	1593.6	1526.3	1446.7	1436.7
47.5°	7233.3	5796.6	1909.8	1362.0	1449.1	1683.2	1688.2	1551.2	1454.1	1347.1	1332.1
50°	7903.1	6130.2	1658.3	1302.2	1396.9	1643.4	1650.8	1494.0	1367.0	1257.4	1247.5
52.5°	8545.5	6471.4	1449.1	1210.1	1362.0	1596.1	1613.5	1441.7	1294.8	1157.8	1165.3
55°	8869.2	6346.9	1269.9	1142.9	1282.3	1518.9	1583.6	1404.3	1185.2	1090.6	1088.1
57.5°	8941.4	6040.6	1127.9	1073.2	1215.1	1436.7	1533.8	1292.3	1135.4	1055.7	1045.8
60°	8704.8	5505.3	1015.9	998.5	1130.4	1352.0	1419.3	1232.5	1085.6	1020.9	1005.9
62.5°	8122.2	4950.0	938.7	963.6	1058.2	1259.9	1347.1	1190.2	1038.3	993.5	961.1
65°	6660.6	4071.1	876.5	896.4	983.5	1170.3	1302.2	1142.9	996.0	953.6	951.2
67.5°	4613.9	2806.2	826.7	864.0	923.8	1105.5	1257.4	1090.6	941.2	926.3	906.3
70°	2363.0	1496.5	761.9	791.8	859.0	1023.4	1177.7	1035.8	883.9	881.4	856.5
72.5°	1197.7	876.5	687.2	732.0	779.4	916.3	1078.1	963.6	811.7	784.3	744.5
73°	1035.8	811.7	674.8	714.6	759.4	886.4	1048.3	946.2	801.8	761.9	724.6
75°	754.5	639.9	605.1	644.9	679.8	799.3	948.7	866.5	737.0	694.7	659.8
77.5°	565.2	493.0	503.0	547.8	577.7	689.7	844.1	784.3	667.3	610.0	595.1
80°	415.8	376.0	415.8	458.1	480.6	607.5	769.4	679.8	562.7	498.0	485.5
82.5°	296.3	273.9	321.2	348.6	358.6	503.0	692.2	542.8	425.8	341.1	313.7
85°	169.3	166.8	216.6	214.1	221.6	293.8	455.7	361.0	273.9	209.2	204.2
87.5°	74.7	82.2	109.6	87.1	92.1	139.4	194.2	134.5	112.0	62.2	47.3
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)