

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: P484729

Luminaire Tested: **IFLD-M-SA4B-730-U-SL4-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484729
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4B-730-U-SL4-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens with House Side Shield
Light Source: (64) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

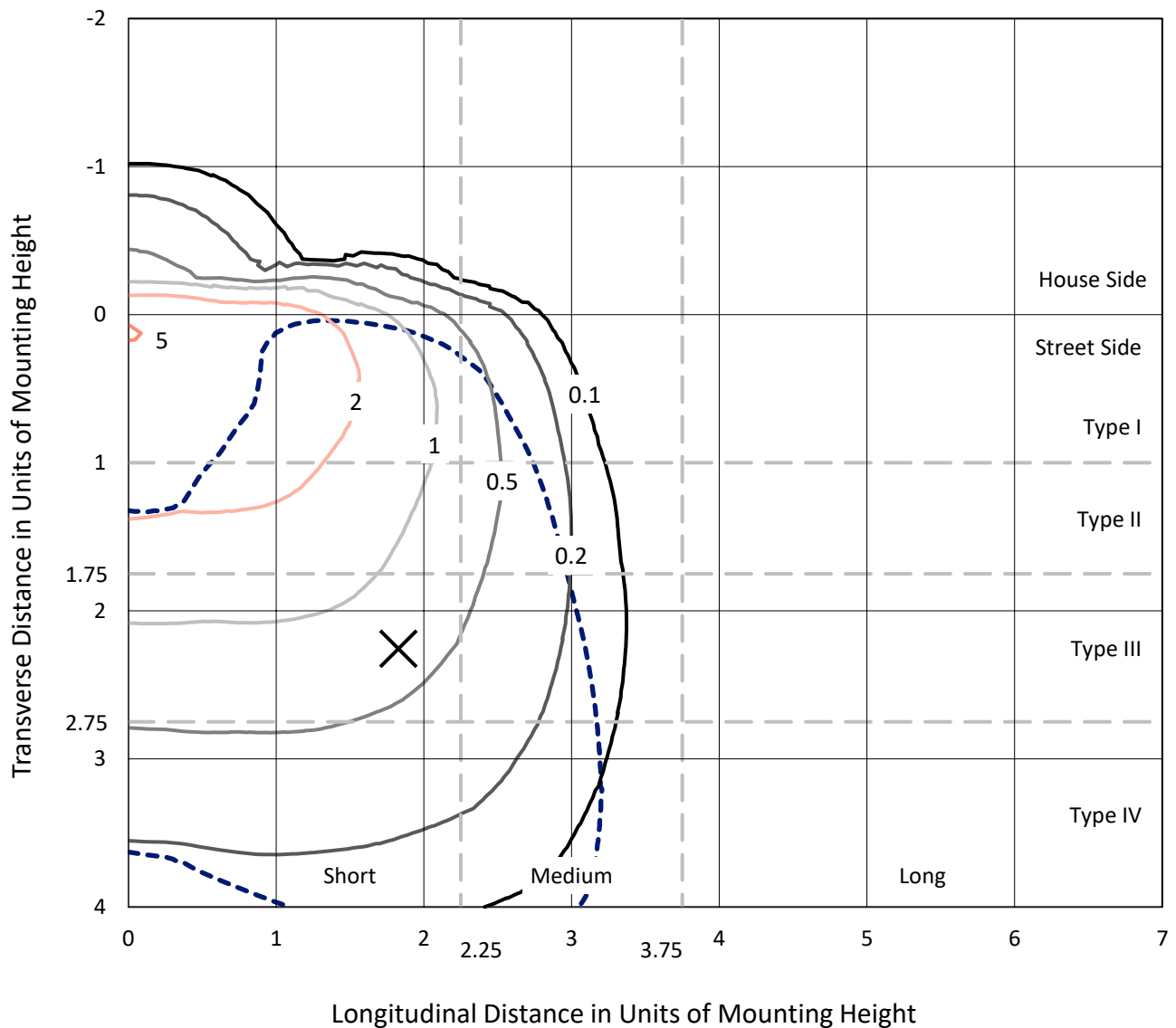
Lumens per Lamp: N/A
Luminaire Lumens: 17181.3 lumens
Efficiency: N/A
Efficacy: 103.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

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

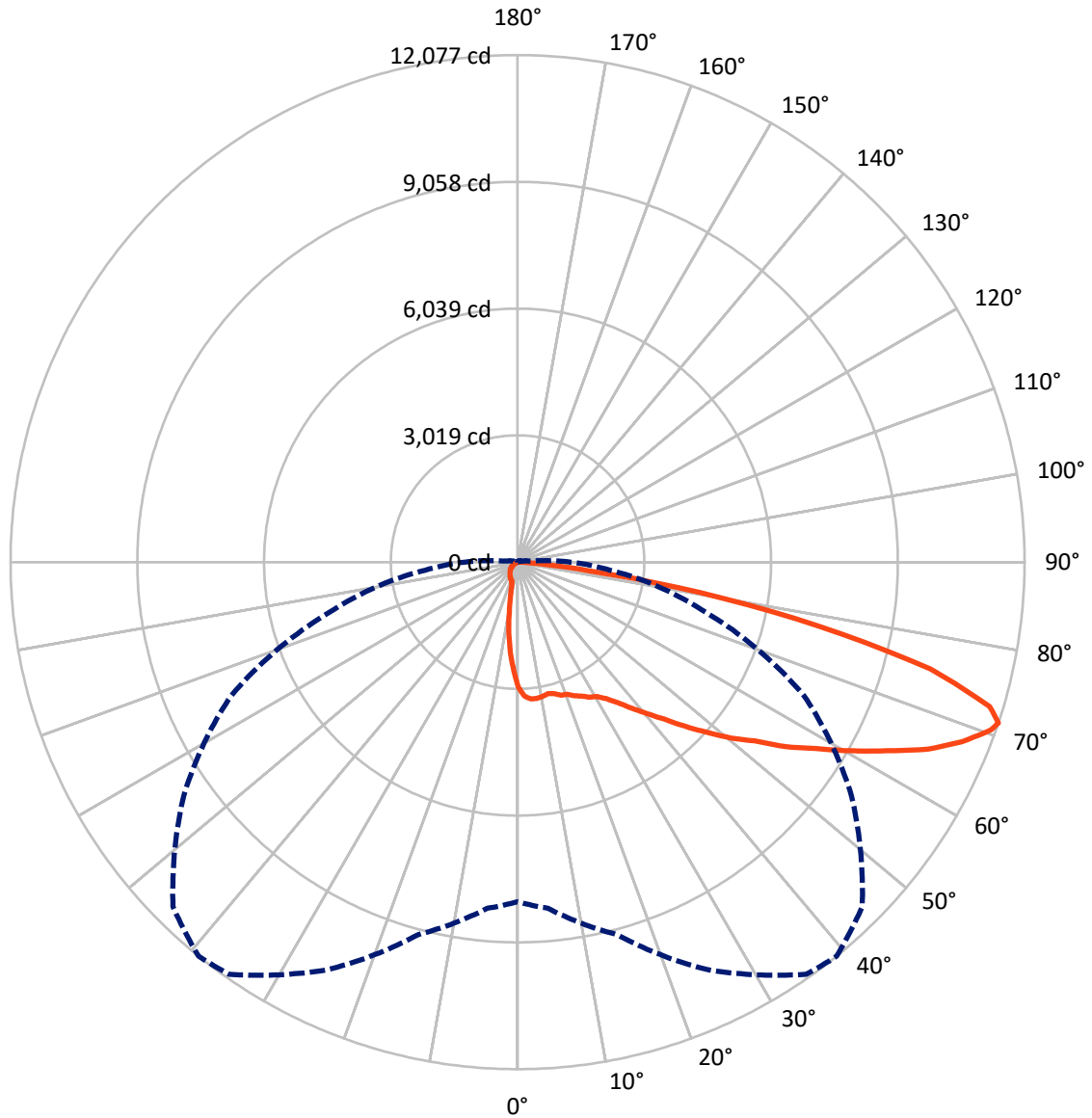
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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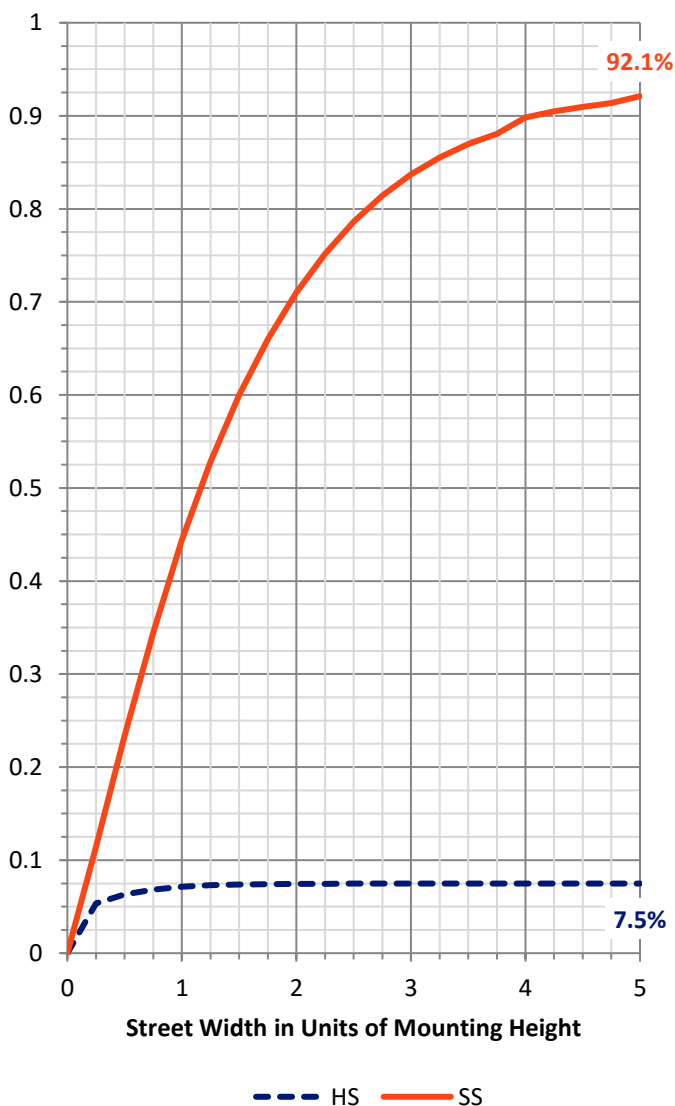
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1293.5	0.0	1293.5
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	15887.8	0.0	15887.8
	% Fixture	92.5	0.0	92.5
Total	Lumens	17181.3	0.0	17181.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	250.0	1.5
10°-20°	615.4	3.6
20°-30°	987.9	5.8
30°-40°	1512.3	8.8
40°-50°	2427.5	14.1
50°-60°	3565.6	20.8
60°-70°	4490.7	26.1
70°-80°	2997.0	17.4
80°-90°	334.9	1.9
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°	17181.3	100.0
0°-180°	17181.3	100.0

Coefficient of Utilization



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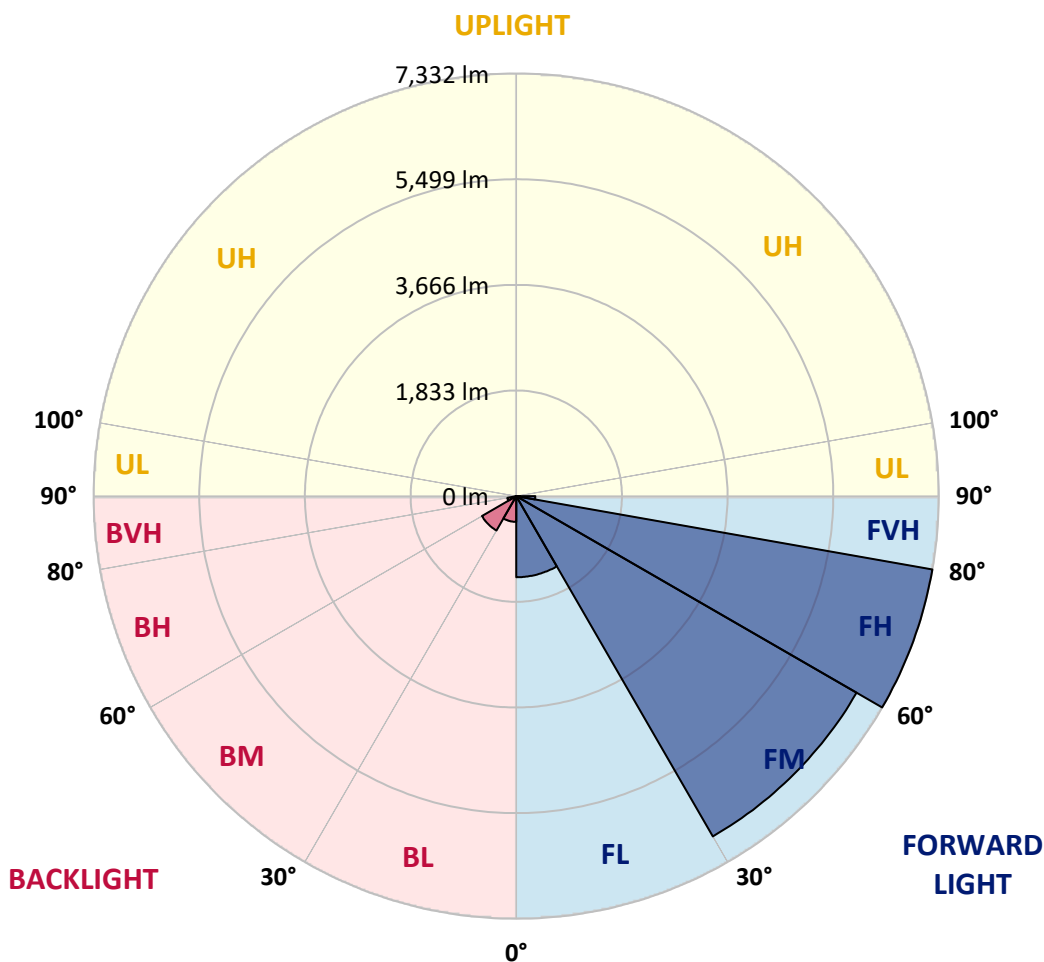
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1406.8	8.2			
FM (30°-60°)	6817.8	39.7			
FH (60°-80°)	7332.0	42.7			G3/7500
FVH (80°-90°)	331.2	1.9			G3/500
BL (0°-30°)	446.6	2.6	B1/500		
BM (30°-60°)	687.5	4.0	B1/1000		
BH (60°-80°)	155.7	0.9	B1/500		G1/500
BVH (80°-90°)	3.7	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	2990.5	2990.5	2990.5	2990.5	2990.5	2990.5	2990.5	2990.5	2990.5	2990.5	2990.5
2.5°	3222.6	3254.2	3222.6	3209.1	3195.6	3197.8	3161.8	3168.5	3125.7	3069.4	3024.3
5°	3324.0	3366.9	3333.1	3317.3	3315.0	3272.2	3254.2	3211.4	3159.5	3071.6	3017.6
7.5°	3315.0	3306.0	3321.8	3308.3	3279.0	3279.0	3258.7	3197.8	3146.0	3046.8	2954.5
10°	3247.4	3274.5	3260.9	3245.2	3251.9	3254.2	3215.9	3173.0	3157.3	3058.1	2907.1
12.5°	3240.7	3195.6	3245.2	3247.4	3218.1	3215.9	3211.4	3200.1	3150.5	3060.4	2918.4
15°	3218.1	3200.1	3249.7	3251.9	3258.7	3251.9	3258.7	3249.7	3200.1	3148.3	2968.0
17.5°	3236.1	3215.9	3285.7	3319.5	3303.8	3335.3	3324.0	3283.5	3240.7	3179.8	3015.3
20°	3240.7	3270.0	3346.6	3360.1	3409.7	3357.8	3355.6	3312.8	3285.7	3220.4	3044.6
22.5°	3324.0	3337.6	3432.2	3461.5	3463.8	3457.0	3400.7	3351.1	3339.8	3258.7	3051.4
25°	3450.2	3497.6	3540.4	3558.4	3565.2	3533.6	3475.0	3411.9	3384.9	3333.1	3121.2
27.5°	3673.3	3644.0	3682.4	3709.4	3632.8	3644.0	3569.7	3515.6	3477.3	3432.2	3202.3
30°	3871.7	3844.6	3846.9	3842.4	3777.0	3716.2	3695.9	3601.2	3553.9	3571.9	3328.5
32.5°	4049.7	3991.1	4040.7	4018.1	3896.4	3878.4	3862.6	3743.2	3752.2	3835.6	3517.8
35°	4214.2	4193.9	4234.5	4193.9	4112.8	4108.3	4092.5	3988.8	4038.4	4157.9	3842.4
37.5°	4365.2	4372.0	4421.5	4401.3	4408.0	4412.5	4403.5	4293.1	4435.1	4703.2	4221.0
40°	4504.9	4495.9	4617.6	4680.7	4694.2	4743.8	4743.8	4716.8	4935.4	5237.3	4746.1
42.5°	4653.7	4676.2	4833.9	4939.9	5068.3	5111.1	5169.7	5183.2	5521.3	5866.1	5282.4
45°	4897.0	4858.7	5059.3	5309.4	5422.1	5573.1	5663.3	5739.9	6147.8	6621.0	5818.8
47.5°	5205.8	5129.2	5304.9	5667.8	5929.2	6053.1	6215.4	6316.8	6715.7	7204.7	6325.8
50°	5548.3	5469.5	5555.1	6055.4	6359.6	6585.0	6792.3	6920.8	7403.0	7858.3	6695.4
52.5°	5935.9	5863.8	5877.4	6458.8	6907.2	7071.8	7344.4	7536.0	8016.0	8252.6	6826.1
55°	6348.3	6330.3	6287.5	6853.2	7387.3	7756.8	7921.4	8151.2	8644.8	8466.7	6968.1
57.5°	6763.0	6706.7	6767.5	7376.0	8158.0	8378.8	8606.4	8743.9	8994.1	8653.8	6914.0
60°	7152.9	7157.4	7243.0	7943.9	8813.8	9127.0	9332.1	9248.7	9352.4	8734.9	6790.1
62.5°	7481.9	7472.9	7689.2	8581.7	9681.4	9893.2	10046.5	9674.6	9519.1	8813.8	6573.7
65°	7777.1	7878.5	8218.8	9341.1	10497.2	10740.6	10648.2	10078.0	9681.4	8581.7	5965.2
67.5°	8000.2	8151.2	8741.7	10055.5	11245.4	11416.7	11288.2	10384.5	9489.8	7671.2	4858.7
70°	8130.9	8284.2	9115.8	10650.4	11842.6	11966.5	11664.6	10147.9	8372.1	5555.1	3031.1
71°	8090.4	8277.4	9187.9	10713.5	11984.6	12077.0	11608.2	9710.7	7529.2	4651.4	2210.8
72.5°	7723.0	7898.8	8888.1	10668.5	11813.3	11757.0	11168.8	8660.5	5926.9	2965.7	1142.6
75°	5674.5	5863.8	7628.4	9228.4	10544.5	10156.9	9039.1	6077.9	3091.9	908.2	333.5
77.5°	2826.0	2857.5	4734.8	6699.9	7734.3	7348.9	6057.6	3389.4	1156.1	268.2	166.8
80°	1302.6	1311.6	1775.8	3470.5	4676.2	4401.3	3393.9	1672.2	522.8	142.0	130.7
82.5°	887.9	901.4	1070.5	1437.8	2030.5	1712.7	1374.7	1070.5	299.7	85.6	128.5
85°	162.3	148.7	599.5	761.7	784.2	531.8	475.5	926.2	112.7	49.6	112.7
87.5°	0.0	2.3	83.4	311.0	279.4	123.9	162.3	225.4	11.3	15.8	20.3
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°	2990.5	2990.5	2990.5	2990.5	2990.5	2990.5	2990.5	2990.5	2990.5	2990.5	2990.5
2.5°	2986.0	2961.2	2877.8	2785.4	2702.0	2636.7	2553.3	2515.0	2454.2	2420.4	2418.1
5°	2943.2	2875.6	2731.3	2575.8	2402.3	2258.1	2098.1	2007.9	1904.3	1872.7	1866.0
7.5°	2871.1	2774.2	2562.3	2343.7	2077.8	1823.2	1627.1	1417.5	1289.1	1235.0	1214.7
10°	2826.0	2708.8	2420.4	2093.6	1721.7	1363.4	1088.5	865.4	748.2	691.9	678.3
12.5°	2826.0	2699.8	2305.4	1854.7	1361.2	933.0	673.8	545.4	507.1	493.5	493.5
15°	2819.2	2681.8	2195.0	1609.1	1007.4	626.5	502.5	475.5	471.0	468.7	466.5
17.5°	2853.0	2650.2	2082.3	1345.4	712.1	493.5	462.0	457.5	453.0	453.0	448.5
20°	2877.8	2632.2	1947.1	1065.9	531.8	457.5	444.0	437.2	434.9	432.7	437.2
22.5°	2857.5	2605.1	1780.3	797.8	464.2	434.9	425.9	419.2	414.7	414.7	416.9
25°	2895.9	2580.4	1613.6	601.7	434.9	414.7	405.6	401.1	398.9	396.6	392.1
27.5°	2947.7	2591.6	1415.3	484.5	410.2	394.4	385.4	380.9	378.6	374.1	378.6
30°	3010.8	2589.4	1196.7	423.7	387.6	371.8	362.8	360.6	356.1	353.8	356.1
32.5°	3119.0	2648.0	971.3	392.1	362.8	349.3	340.3	338.0	335.8	333.5	331.3
35°	3351.1	2720.1	759.5	367.3	340.3	324.5	317.8	313.2	311.0	308.7	306.5
37.5°	3637.3	2880.1	579.2	344.8	317.8	302.0	295.2	293.0	284.0	281.7	279.4
40°	3995.6	3051.4	446.2	320.0	297.5	281.7	274.9	268.2	256.9	252.4	247.9
42.5°	4441.8	3218.1	367.3	297.5	274.9	263.7	252.4	241.1	232.1	223.1	218.6
45°	4888.0	3411.9	322.3	277.2	256.9	243.4	234.4	218.6	202.8	189.3	187.0
47.5°	5259.9	3481.8	295.2	254.7	238.9	227.6	214.1	193.8	171.3	157.8	155.5
50°	5537.1	3441.2	268.2	232.1	218.6	207.3	189.3	164.5	142.0	128.5	123.9
52.5°	5591.1	3263.2	243.4	214.1	198.3	184.8	164.5	137.5	112.7	99.2	96.9
55°	5552.8	2968.0	223.1	198.3	180.3	160.0	137.5	110.4	87.9	74.4	72.1
57.5°	5474.0	2618.7	200.6	178.0	157.8	137.5	112.7	90.1	65.4	51.8	51.8
60°	5205.8	2143.2	178.0	155.5	135.2	117.2	92.4	65.4	45.1	33.8	31.6
62.5°	4831.7	1647.4	155.5	133.0	117.2	96.9	72.1	47.3	27.0	18.0	18.0
65°	4148.9	1153.8	130.7	110.4	96.9	78.9	54.1	29.3	15.8	6.8	6.8
67.5°	3152.8	714.4	108.2	92.4	83.4	63.1	38.3	18.0	6.8	2.3	0.0
70°	1809.6	371.8	85.6	74.4	65.4	47.3	27.0	9.0	4.5	0.0	0.0
71°	1264.3	274.9	76.6	65.4	58.6	42.8	22.5	6.8	2.3	0.0	0.0
72.5°	633.3	182.5	65.4	54.1	47.3	33.8	18.0	6.8	2.3	0.0	0.0
75°	225.4	117.2	45.1	36.1	33.8	24.8	11.3	4.5	2.3	0.0	0.0
77.5°	155.5	94.7	31.6	22.5	22.5	15.8	6.8	2.3	2.3	0.0	0.0
80°	142.0	51.8	20.3	13.5	11.3	9.0	4.5	2.3	0.0	0.0	0.0
82.5°	142.0	38.3	11.3	9.0	6.8	4.5	2.3	0.0	0.0	0.0	0.0
85°	99.2	20.3	6.8	6.8	4.5	2.3	0.0	0.0	0.0	0.0	0.0
87.5°	15.8	6.8	4.5	2.3	2.3	0.0	0.0	0.0	0.0	0.0	0.0
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)