

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: P484655

Luminaire Tested: **IFLD-L-SA7A-722-U-SL4-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484655
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7A-722-U-SL4-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens with House Side Shield
Light Source: (112) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

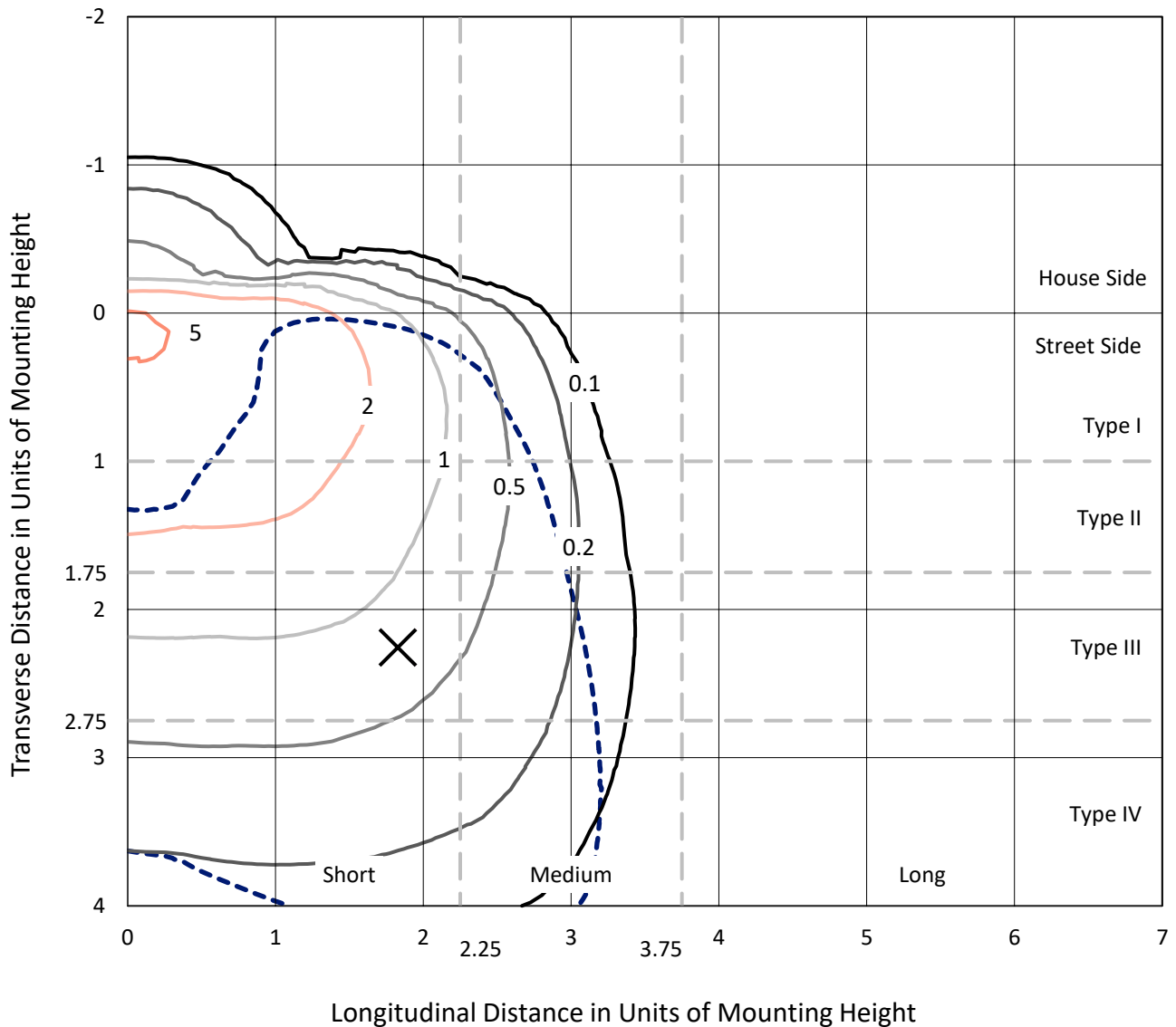
Lumens per Lamp: N/A
Luminaire Lumens: 19046.9 lumens
Efficiency: N/A
Efficacy: 87.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G4

Input Watts (W): 217.6
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

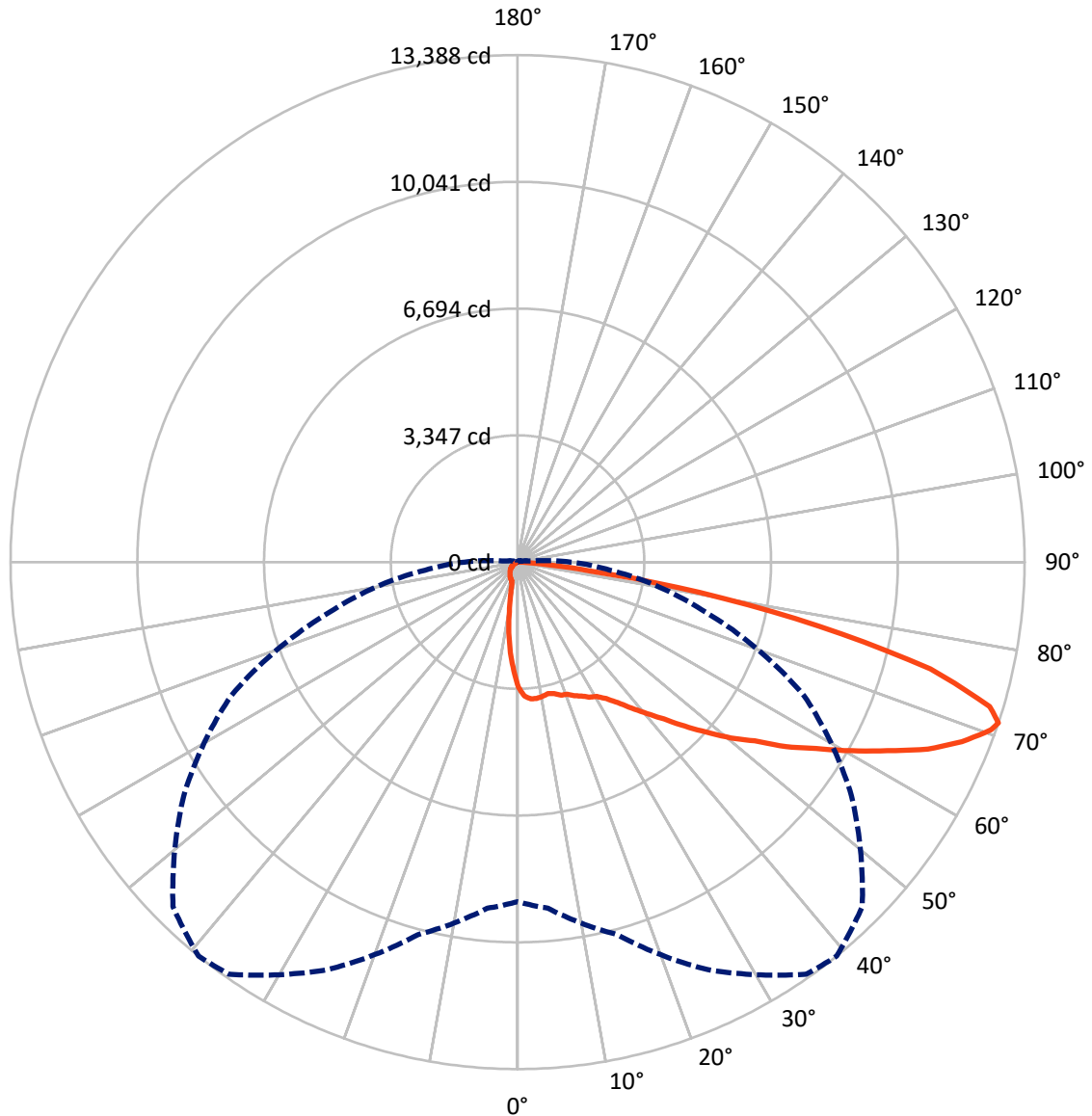
× Max cd
 - - - 1/2 Max cd



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

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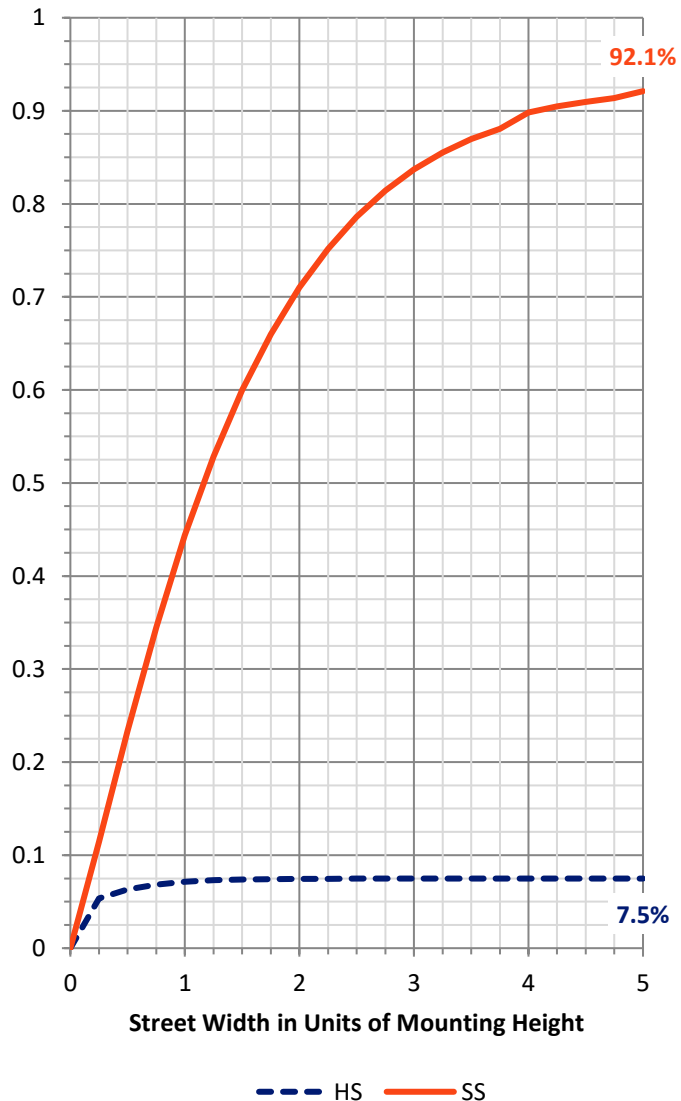
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1433.9	0.0	1433.9
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	17613.0	0.0	17613.0
	% Fixture	92.5	0.0	92.5
Total	Lumens	19046.9	0.0	19046.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	277.2	1.5
10°-20°	682.2	3.6
20°-30°	1095.2	5.8
30°-40°	1676.5	8.8
40°-50°	2691.1	14.1
50°-60°	3952.7	20.8
60°-70°	4978.3	26.1
70°-80°	3322.4	17.4
80°-90°	371.3	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°	19046.9	100.0
0°-180°	19046.9	100.0

Coefficient of Utilization



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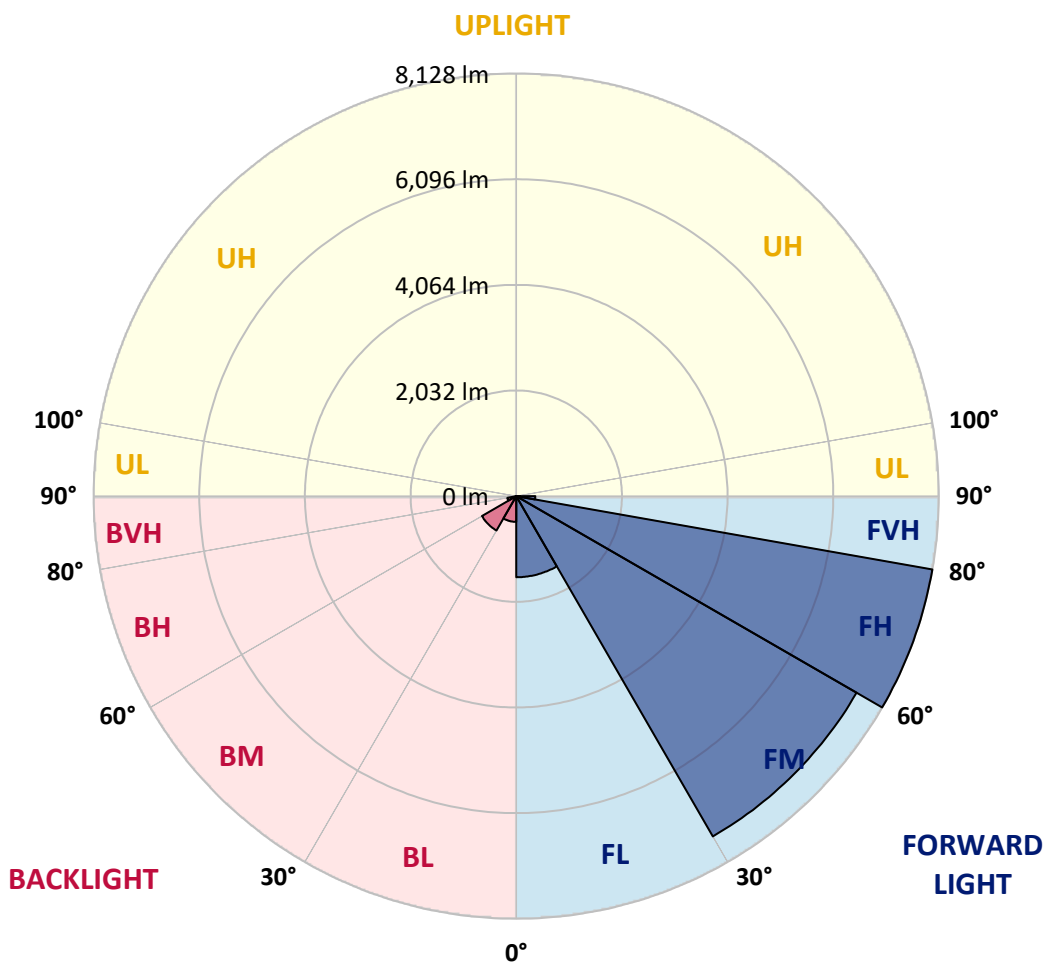
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1559.5	8.2			
FM (30°-60°)	7558.1	39.7			
FH (60°-80°)	8128.1	42.7			G4/12000
FVH (80°-90°)	367.2	1.9			G3/500
BL (0°-30°)	495.1	2.6	B1/500		
BM (30°-60°)	762.2	4.0	B1/1000		
BH (60°-80°)	172.6	0.9	B1/500		G1/500
BVH (80°-90°)	4.1	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-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	3315.2	3315.2	3315.2	3315.2	3315.2	3315.2	3315.2	3315.2	3315.2	3315.2	3315.2
2.5°	3572.6	3607.5	3572.6	3557.6	3542.6	3545.1	3505.1	3512.6	3465.1	3402.7	3352.7
5°	3685.0	3732.5	3695.0	3677.5	3675.0	3627.5	3607.5	3560.1	3502.6	3405.2	3345.2
7.5°	3675.0	3665.0	3682.5	3667.5	3635.0	3635.0	3612.5	3545.1	3487.6	3377.7	3275.3
10°	3600.0	3630.0	3615.0	3597.5	3605.0	3607.5	3565.1	3517.6	3500.1	3390.2	3222.8
12.5°	3592.6	3542.6	3597.5	3600.0	3567.6	3565.1	3560.1	3547.6	3492.6	3392.7	3235.3
15°	3567.6	3547.6	3602.5	3605.0	3612.5	3605.0	3612.5	3602.5	3547.6	3490.1	3290.3
17.5°	3587.6	3565.1	3642.5	3680.0	3662.5	3697.5	3685.0	3640.0	3592.6	3525.1	3342.7
20°	3592.6	3625.0	3710.0	3725.0	3779.9	3722.5	3720.0	3672.5	3642.5	3570.1	3375.2
22.5°	3685.0	3700.0	3804.9	3837.4	3839.9	3832.4	3769.9	3715.0	3702.5	3612.5	3382.7
25°	3824.9	3877.4	3924.8	3944.8	3952.3	3917.3	3852.4	3782.4	3752.4	3695.0	3460.1
27.5°	4072.2	4039.7	4082.2	4112.2	4027.3	4039.7	3957.3	3897.3	3854.9	3804.9	3550.1
30°	4292.1	4262.1	4264.6	4259.6	4187.1	4119.7	4097.2	3992.3	3939.8	3959.8	3690.0
32.5°	4489.4	4424.5	4479.4	4454.5	4319.6	4299.6	4282.1	4149.7	4159.7	4252.1	3899.8
35°	4671.8	4649.3	4694.3	4649.3	4559.4	4554.4	4536.9	4422.0	4476.9	4609.4	4259.6
37.5°	4839.2	4846.7	4901.7	4879.2	4886.7	4891.7	4881.7	4759.3	4916.6	5213.9	4679.3
40°	4994.1	4984.1	5119.0	5189.0	5204.0	5258.9	5258.9	5228.9	5471.3	5806.0	5261.4
42.5°	5159.0	5184.0	5358.8	5476.3	5618.7	5666.1	5731.1	5746.1	6120.8	6503.1	5856.0
45°	5428.8	5386.3	5608.7	5886.0	6010.9	6178.3	6278.2	6363.2	6815.4	7340.0	6450.6
47.5°	5771.1	5686.1	5881.0	6283.2	6573.0	6710.4	6890.3	7002.7	7444.9	7987.1	7012.7
50°	6150.8	6063.4	6158.3	6712.9	7050.2	7300.0	7529.9	7672.3	8206.9	8711.6	7422.4
52.5°	6580.5	6500.6	6515.6	7160.1	7657.3	7839.7	8142.0	8354.3	8886.4	9148.8	7567.3
55°	7037.7	7017.7	6970.2	7597.3	8189.4	8599.1	8781.5	9036.3	9583.5	9386.1	7724.7
57.5°	7497.4	7434.9	7502.4	8176.9	9043.8	9288.7	9541.0	9693.4	9970.7	9593.5	7664.8
60°	7929.6	7934.6	8029.5	8806.5	9770.8	10118.1	10345.4	10253.0	10367.9	9683.4	7527.4
62.5°	8294.3	8284.4	8524.2	9513.5	10732.7	10967.5	11137.4	10725.2	10552.8	9770.8	7287.5
65°	8621.6	8734.0	9111.3	10355.4	11637.1	11906.9	11804.5	11172.4	10732.7	9513.5	6613.0
67.5°	8869.0	9036.3	9690.9	11147.4	12466.5	12656.4	12514.0	11512.2	10520.3	8504.2	5386.3
70°	9013.9	9183.7	10105.6	11807.0	13128.6	13266.0	12931.2	11249.8	9281.2	6158.3	3360.2
71°	8968.9	9176.2	10185.6	11876.9	13285.9	13388.4	12868.7	10765.2	8346.8	5156.5	2450.8
72.5°	8561.7	8756.5	9853.3	11826.9	13096.1	13033.6	12381.6	9601.0	6570.5	3287.8	1266.6
75°	6290.7	6500.6	8456.7	10230.5	11689.5	11259.8	10020.7	6737.9	3427.7	1006.8	369.7
77.5°	3132.9	3167.8	5248.9	7427.4	8574.2	8146.9	6715.4	3757.4	1281.6	297.3	184.9
80°	1444.0	1454.0	1968.7	3847.4	5184.0	4879.2	3762.4	1853.7	579.6	157.4	144.9
82.5°	984.3	999.3	1186.7	1593.9	2251.0	1898.7	1524.0	1186.7	332.3	94.9	142.4
85°	179.9	164.9	664.5	844.4	869.4	589.6	527.1	1026.8	124.9	55.0	124.9
87.5°	0.0	2.5	92.4	344.8	309.8	137.4	179.9	249.8	12.5	17.5	22.5
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°	3315.2	3315.2	3315.2	3315.2	3315.2	3315.2	3315.2	3315.2	3315.2	3315.2	3315.2
2.5°	3310.2	3282.8	3190.3	3087.9	2995.5	2923.0	2830.6	2788.1	2720.6	2683.2	2680.7
5°	3262.8	3187.8	3027.9	2855.6	2663.2	2503.3	2325.9	2226.0	2111.1	2076.1	2068.6
7.5°	3182.8	3075.4	2840.6	2598.2	2303.4	2021.1	1803.8	1571.4	1429.0	1369.1	1346.6
10°	3132.9	3003.0	2683.2	2320.9	1908.7	1511.5	1206.7	959.3	829.4	767.0	752.0
12.5°	3132.9	2993.0	2555.8	2056.1	1509.0	1034.3	747.0	604.6	562.1	547.1	547.1
15°	3125.4	2973.0	2433.3	1783.8	1116.7	694.5	557.1	527.1	522.1	519.6	517.1
17.5°	3162.8	2938.0	2308.4	1491.5	789.5	547.1	512.2	507.2	502.2	502.2	497.2
20°	3190.3	2918.0	2158.5	1181.7	589.6	507.2	492.2	484.7	482.2	479.7	484.7
22.5°	3167.8	2888.0	1973.7	884.4	514.6	482.2	472.2	464.7	459.7	459.7	462.2
25°	3210.3	2860.6	1788.8	667.0	482.2	459.7	449.7	444.7	442.2	439.7	434.7
27.5°	3267.8	2873.0	1568.9	537.1	454.7	437.2	427.2	422.2	419.7	414.7	419.7
30°	3337.7	2870.5	1326.6	469.7	429.7	412.2	402.2	399.7	394.7	392.2	394.7
32.5°	3457.6	2935.5	1076.8	434.7	402.2	387.2	377.2	374.7	372.2	369.7	367.2
35°	3715.0	3015.4	841.9	407.2	377.2	359.8	352.3	347.3	344.8	342.3	339.8
37.5°	4032.3	3192.8	642.1	382.2	352.3	334.8	327.3	324.8	314.8	312.3	309.8
40°	4429.5	3382.7	494.7	354.8	329.8	312.3	304.8	297.3	284.8	279.8	274.8
42.5°	4924.1	3567.6	407.2	329.8	304.8	292.3	279.8	267.3	257.3	247.3	242.3
45°	5418.8	3782.4	357.3	307.3	284.8	269.8	259.8	242.3	224.8	209.9	207.4
47.5°	5831.0	3859.9	327.3	282.3	264.8	252.3	237.3	214.9	189.9	174.9	172.4
50°	6138.3	3814.9	297.3	257.3	242.3	229.8	209.9	182.4	157.4	142.4	137.4
52.5°	6198.3	3617.5	269.8	237.3	219.9	204.9	182.4	152.4	124.9	109.9	107.4
55°	6155.8	3290.3	247.3	219.9	199.9	177.4	152.4	122.4	97.4	82.4	79.9
57.5°	6068.4	2903.0	222.3	197.4	174.9	152.4	124.9	99.9	72.5	57.5	57.5
60°	5771.1	2375.9	197.4	172.4	149.9	129.9	102.4	72.5	50.0	37.5	35.0
62.5°	5356.3	1826.3	172.4	147.4	129.9	107.4	79.9	52.5	30.0	20.0	20.0
65°	4599.4	1279.1	144.9	122.4	107.4	87.4	60.0	32.5	17.5	7.5	7.5
67.5°	3495.1	792.0	119.9	102.4	92.4	70.0	42.5	20.0	7.5	2.5	0.0
70°	2006.1	412.2	94.9	82.4	72.5	52.5	30.0	10.0	5.0	0.0	0.0
71°	1401.5	304.8	84.9	72.5	65.0	47.5	25.0	7.5	2.5	0.0	0.0
72.5°	702.0	202.4	72.5	60.0	52.5	37.5	20.0	7.5	2.5	0.0	0.0
75°	249.8	129.9	50.0	40.0	37.5	27.5	12.5	5.0	2.5	0.0	0.0
77.5°	172.4	104.9	35.0	25.0	25.0	17.5	7.5	2.5	2.5	0.0	0.0
80°	157.4	57.5	22.5	15.0	12.5	10.0	5.0	2.5	0.0	0.0	0.0
82.5°	157.4	42.5	12.5	10.0	7.5	5.0	2.5	0.0	0.0	0.0	0.0
85°	109.9	22.5	7.5	7.5	5.0	2.5	0.0	0.0	0.0	0.0	0.0
87.5°	17.5	7.5	5.0	2.5	2.5	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)