

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: P484694

Luminaire Tested: **IFLD-L-SA7A-727-U-SL4-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484694
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7A-727-U-SL4-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens with House Side Shield
Light Source: (112) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

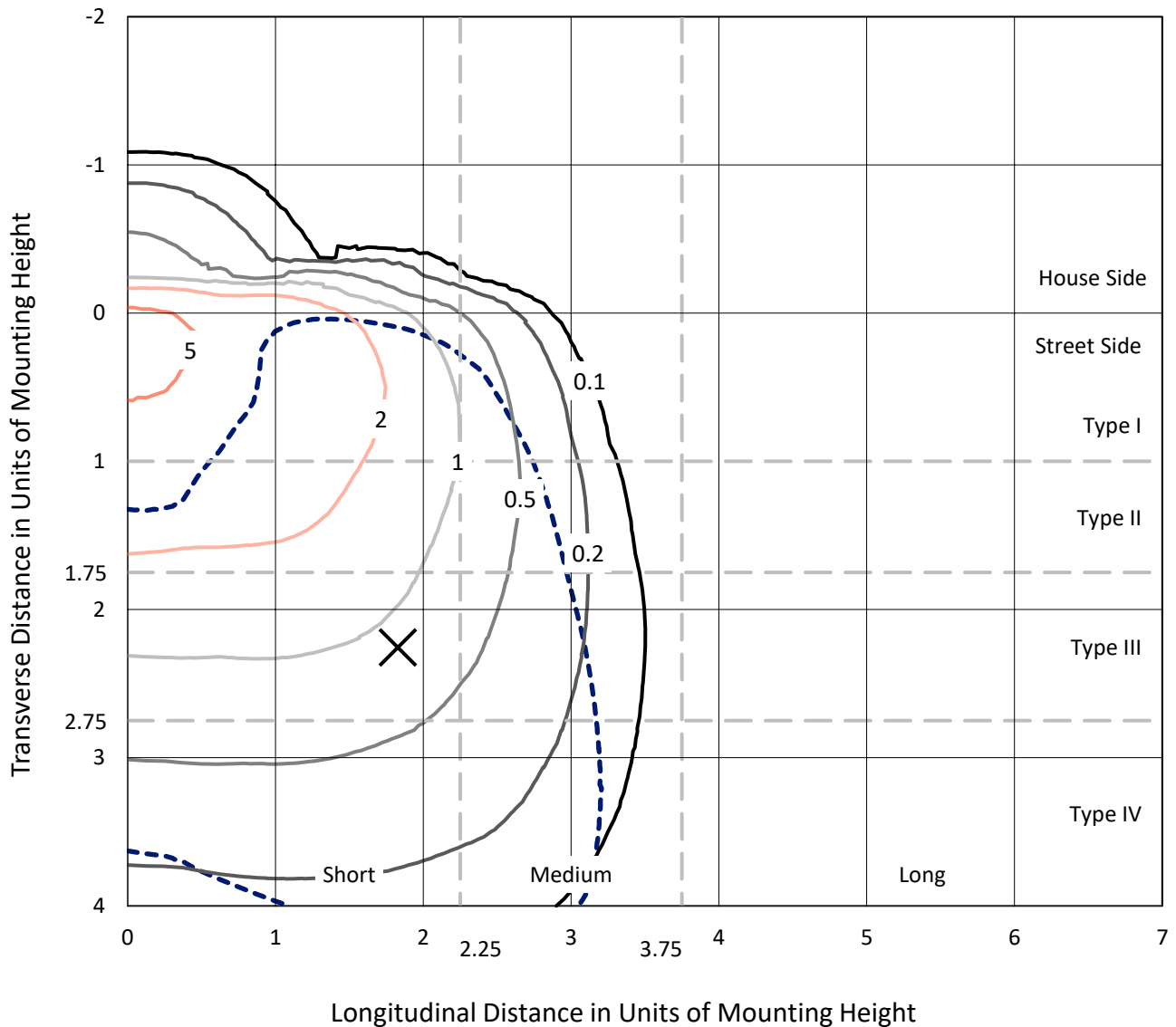
Lumens per Lamp: N/A
Luminaire Lumens: 21625 lumens
Efficiency: N/A
Efficacy: 99.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

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

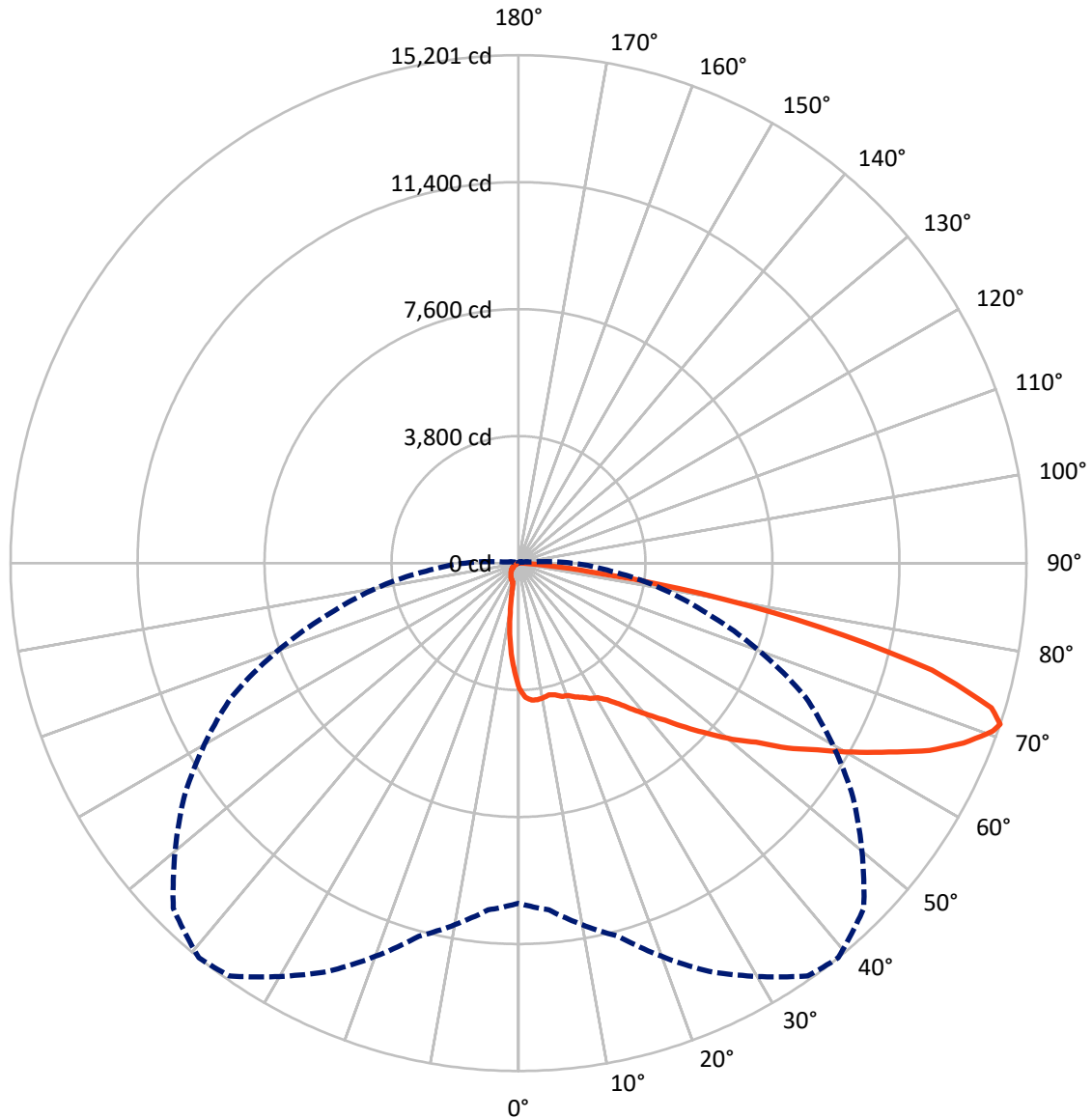
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 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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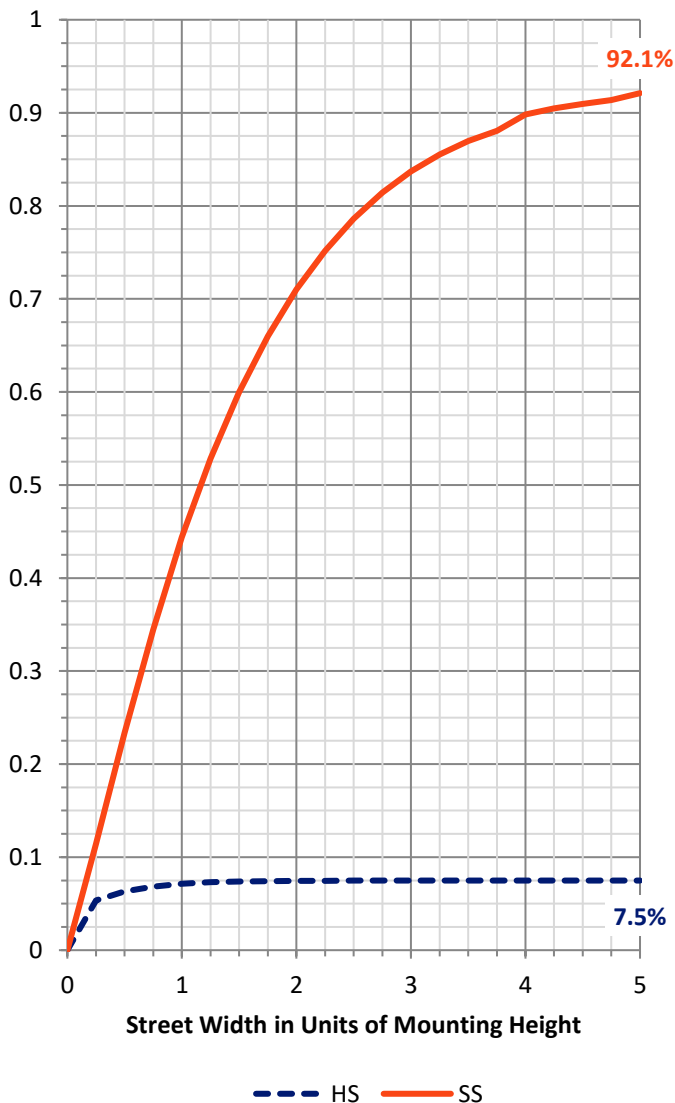
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1628.0	0.0	1628.0
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	19997.0	0.0	19997.0
	% Fixture	92.5	0.0	92.5
Total	Lumens	21625.0	0.0	21625.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	314.7	1.5
10°-20°	774.6	3.6
20°-30°	1243.4	5.8
30°-40°	1903.4	8.8
40°-50°	3055.3	14.1
50°-60°	4487.8	20.8
60°-70°	5652.2	26.1
70°-80°	3772.1	17.4
80°-90°	421.5	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°	21625.0	100.0
0°-180°	21625.0	100.0



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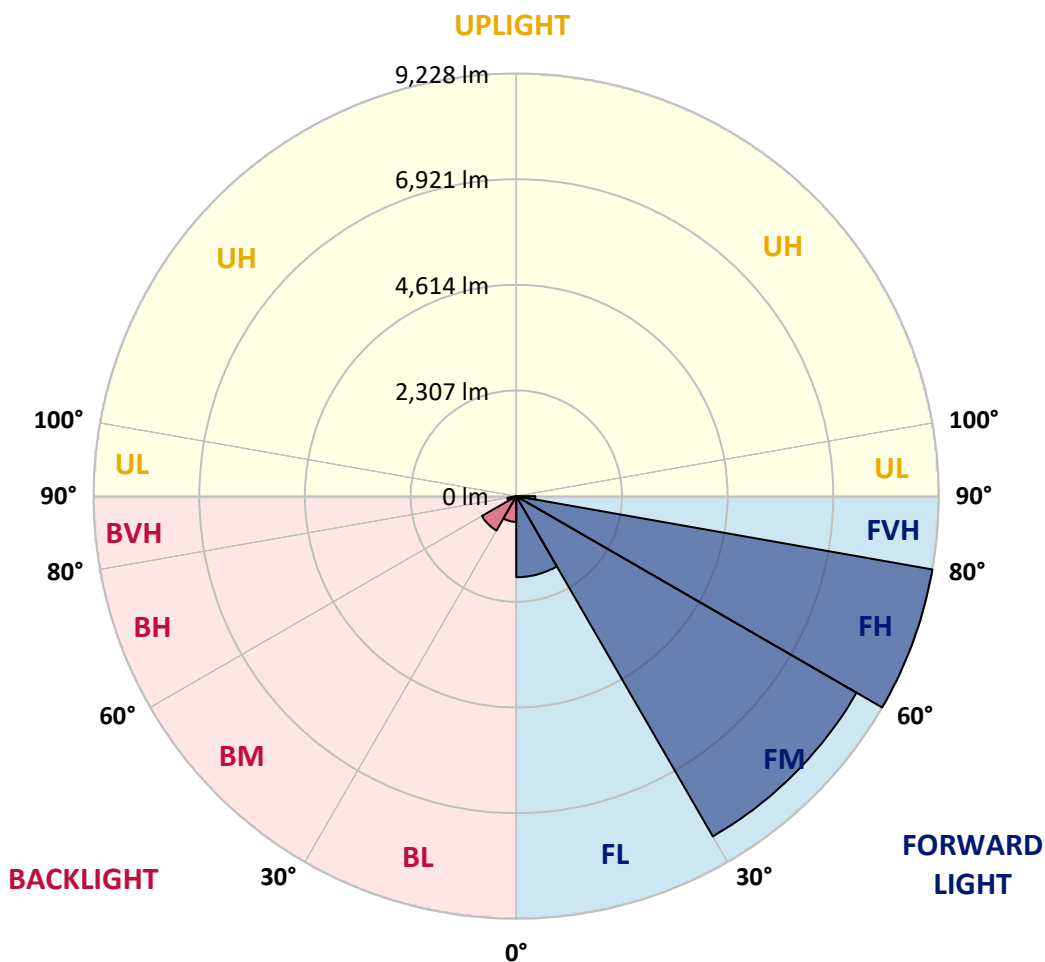
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1770.6	8.2			
FM (30°-60°)	8581.1	39.7			
FH (60°-80°)	9228.3	42.7			G4/12000
FVH (80°-90°)	416.9	1.9			G3/500
BL (0°-30°)	562.1	2.6	B2/1000		
BM (30°-60°)	865.4	4.0	B1/1000		
BH (60°-80°)	195.9	0.9	B1/500		G1/500
BVH (80°-90°)	4.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	3764.0	3764.0	3764.0	3764.0	3764.0	3764.0	3764.0	3764.0	3764.0	3764.0	3764.0
2.5°	4056.1	4095.8	4056.1	4039.1	4022.1	4024.9	3979.5	3988.0	3934.2	3863.2	3806.5
5°	4183.8	4237.7	4195.1	4175.2	4172.4	4118.5	4095.8	4041.9	3976.7	3866.1	3798.0
7.5°	4172.4	4161.1	4180.9	4163.9	4127.0	4127.0	4101.5	4024.9	3959.7	3834.9	3718.6
10°	4087.3	4121.4	4104.3	4084.5	4093.0	4095.8	4047.6	3993.7	3973.9	3849.1	3659.0
12.5°	4078.8	4022.1	4084.5	4087.3	4050.4	4047.6	4041.9	4027.8	3965.4	3851.9	3673.2
15°	4050.4	4027.8	4090.2	4093.0	4101.5	4093.0	4101.5	4090.2	4027.8	3962.5	3735.6
17.5°	4073.1	4047.6	4135.5	4178.1	4158.2	4197.9	4183.8	4132.7	4078.8	4002.2	3795.2
20°	4078.8	4115.7	4212.1	4229.1	4291.5	4226.3	4223.5	4169.6	4135.5	4053.3	3832.0
22.5°	4183.8	4200.8	4319.9	4356.8	4359.6	4351.1	4280.2	4217.8	4203.6	4101.5	3840.5
25°	4342.6	4402.2	4456.1	4478.7	4487.3	4447.5	4373.8	4294.4	4260.3	4195.1	3928.5
27.5°	4623.4	4586.5	4634.8	4668.8	4572.4	4586.5	4492.9	4424.9	4376.6	4319.9	4030.6
30°	4873.0	4839.0	4841.8	4836.1	4753.9	4677.3	4651.8	4532.6	4473.1	4495.8	4189.4
32.5°	5097.1	5023.3	5085.7	5057.4	4904.2	4881.5	4861.7	4711.3	4722.7	4827.6	4427.7
35°	5304.2	5278.6	5329.7	5278.6	5176.5	5170.8	5151.0	5020.5	5082.9	5233.2	4836.1
37.5°	5494.2	5502.7	5565.1	5539.6	5548.1	5553.8	5542.4	5403.4	5582.1	5919.7	5312.7
40°	5670.1	5658.7	5811.9	5891.3	5908.3	5970.7	5970.7	5936.7	6211.8	6591.9	5973.6
42.5°	5857.3	5885.6	6084.2	6217.5	6379.2	6433.1	6506.8	6523.8	6949.3	7383.3	6648.6
45°	6163.6	6115.4	6367.8	6682.7	6824.5	7014.5	7128.0	7224.4	7737.8	8333.5	7323.7
47.5°	6552.2	6455.8	6677.0	7133.7	7462.7	7618.7	7822.9	7950.6	8452.6	9068.1	7961.9
50°	6983.3	6884.1	6991.8	7621.5	8004.5	8288.1	8549.0	8710.7	9317.7	9890.7	8427.1
52.5°	7471.2	7380.4	7397.5	8129.3	8693.7	8900.8	9244.0	9485.1	10089.2	10387.1	8591.6
55°	7990.3	7967.6	7913.7	8625.6	9297.9	9763.0	9970.1	10259.4	10880.6	10656.5	8770.3
57.5°	8512.2	8441.3	8517.8	9283.7	10267.9	10545.9	10832.4	11005.4	11320.3	10892.0	8702.2
60°	9002.9	9008.6	9116.3	9998.5	11093.3	11487.6	11745.7	11640.8	11771.3	10994.1	8546.2
62.5°	9417.0	9405.7	9678.0	10801.2	12185.4	12452.0	12644.9	12176.9	11981.1	11093.3	8273.9
65°	9788.6	9916.2	10344.5	11757.1	13212.2	13518.5	13402.2	12684.6	12185.4	10801.2	7508.1
67.5°	10069.4	10259.4	11002.6	12656.2	14153.9	14369.4	14207.8	13070.3	11944.3	9655.3	6115.4
70°	10233.9	10426.8	11473.4	13405.0	14905.5	15061.5	14681.4	12772.5	10537.4	6991.8	3815.0
71°	10182.8	10418.3	11564.2	13484.5	15084.2	15200.5	14610.5	12222.2	9476.6	5854.4	2782.6
72.5°	9720.5	9941.7	11186.9	13427.7	14868.6	14797.7	14057.4	10900.5	7459.9	3732.8	1438.1
75°	7142.2	7380.4	9601.4	11615.2	13271.7	12783.9	11377.0	7649.9	3891.6	1143.1	419.8
77.5°	3556.9	3596.6	5959.4	8432.8	9734.7	9249.7	7624.4	4266.0	1455.1	337.5	209.9
80°	1639.5	1650.8	2235.1	4368.1	5885.6	5539.6	4271.7	2104.6	658.1	178.7	164.5
82.5°	1117.6	1134.6	1347.3	1809.7	2555.6	2155.7	1730.2	1347.3	377.2	107.8	161.7
85°	204.2	187.2	754.5	958.7	987.1	669.4	598.5	1165.8	141.8	62.4	141.8
87.5°	0.0	2.8	104.9	391.4	351.7	156.0	204.2	283.6	14.2	19.9	25.5
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°	3764.0	3764.0	3764.0	3764.0	3764.0	3764.0	3764.0	3764.0	3764.0	3764.0	3764.0
2.5°	3758.3	3727.1	3622.1	3505.8	3400.9	3318.6	3213.7	3165.5	3088.9	3046.3	3043.5
5°	3704.4	3619.3	3437.8	3242.1	3023.7	2842.1	2640.7	2527.3	2396.8	2357.1	2348.6
7.5°	3613.6	3491.7	3225.0	2949.9	2615.2	2294.7	2047.9	1784.1	1622.4	1554.4	1528.8
10°	3556.9	3409.4	3046.3	2635.1	2167.0	1716.0	1370.0	1089.2	941.7	870.8	853.8
12.5°	3556.9	3398.1	2901.7	2334.4	1713.2	1174.3	848.1	686.4	638.2	621.2	621.2
15°	3548.4	3375.4	2762.7	2025.2	1267.9	788.5	632.5	598.5	592.8	590.0	587.1
17.5°	3590.9	3335.7	2620.9	1693.4	896.3	621.2	581.5	575.8	570.1	570.1	564.5
20°	3622.1	3313.0	2450.7	1341.6	669.4	575.8	558.8	550.3	547.4	544.6	550.3
22.5°	3596.6	3278.9	2240.8	1004.1	584.3	547.4	536.1	527.6	521.9	521.9	524.7
25°	3644.8	3247.7	2030.9	757.3	547.4	521.9	510.6	504.9	502.1	499.2	493.5
27.5°	3710.1	3261.9	1781.3	609.8	516.2	496.4	485.0	479.4	476.5	470.9	476.5
30°	3789.5	3259.1	1506.2	533.3	487.9	468.0	456.7	453.8	448.2	445.3	448.2
32.5°	3925.6	3332.8	1222.5	493.5	456.7	439.6	428.3	425.5	422.6	419.8	417.0
35°	4217.8	3423.6	955.9	462.3	428.3	408.4	399.9	394.3	391.4	388.6	385.8
37.5°	4578.0	3625.0	729.0	434.0	399.9	380.1	371.6	368.7	357.4	354.6	351.7
40°	5029.0	3840.5	561.6	402.8	374.4	354.6	346.0	337.5	323.4	317.7	312.0
42.5°	5590.6	4050.4	462.3	374.4	346.0	331.9	317.7	303.5	292.2	280.8	275.1
45°	6152.3	4294.4	405.6	348.9	323.4	306.3	295.0	275.1	255.3	238.3	235.4
47.5°	6620.3	4382.3	371.6	320.5	300.7	286.5	269.5	243.9	215.6	198.6	195.7
50°	6969.1	4331.3	337.5	292.2	275.1	261.0	238.3	207.1	178.7	161.7	156.0
52.5°	7037.2	4107.2	306.3	269.5	249.6	232.6	207.1	173.0	141.8	124.8	122.0
55°	6989.0	3735.6	280.8	249.6	226.9	201.4	173.0	139.0	110.6	93.6	90.8
57.5°	6889.7	3296.0	252.4	224.1	198.6	173.0	141.8	113.5	82.3	65.2	65.2
60°	6552.2	2697.5	224.1	195.7	170.2	147.5	116.3	82.3	56.7	42.5	39.7
62.5°	6081.3	2073.4	195.7	167.4	147.5	122.0	90.8	59.6	34.0	22.7	22.7
65°	5221.9	1452.3	164.5	139.0	122.0	99.3	68.1	36.9	19.9	8.5	8.5
67.5°	3968.2	899.2	136.1	116.3	104.9	79.4	48.2	22.7	8.5	2.8	0.0
70°	2277.7	468.0	107.8	93.6	82.3	59.6	34.0	11.3	5.7	0.0	0.0
71°	1591.2	346.0	96.4	82.3	73.7	53.9	28.4	8.5	2.8	0.0	0.0
72.5°	797.0	229.8	82.3	68.1	59.6	42.5	22.7	8.5	2.8	0.0	0.0
75°	283.6	147.5	56.7	45.4	42.5	31.2	14.2	5.7	2.8	0.0	0.0
77.5°	195.7	119.1	39.7	28.4	28.4	19.9	8.5	2.8	2.8	0.0	0.0
80°	178.7	65.2	25.5	17.0	14.2	11.3	5.7	2.8	0.0	0.0	0.0
82.5°	178.7	48.2	14.2	11.3	8.5	5.7	2.8	0.0	0.0	0.0	0.0
85°	124.8	25.5	8.5	8.5	5.7	2.8	0.0	0.0	0.0	0.0	0.0
87.5°	19.9	8.5	5.7	2.8	2.8	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)