

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: P480888

Luminaire Tested: **IFLD-S-SA3C-740-U-SL4**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480888
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3C-740-U-SL4
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens
Light Source: (48) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

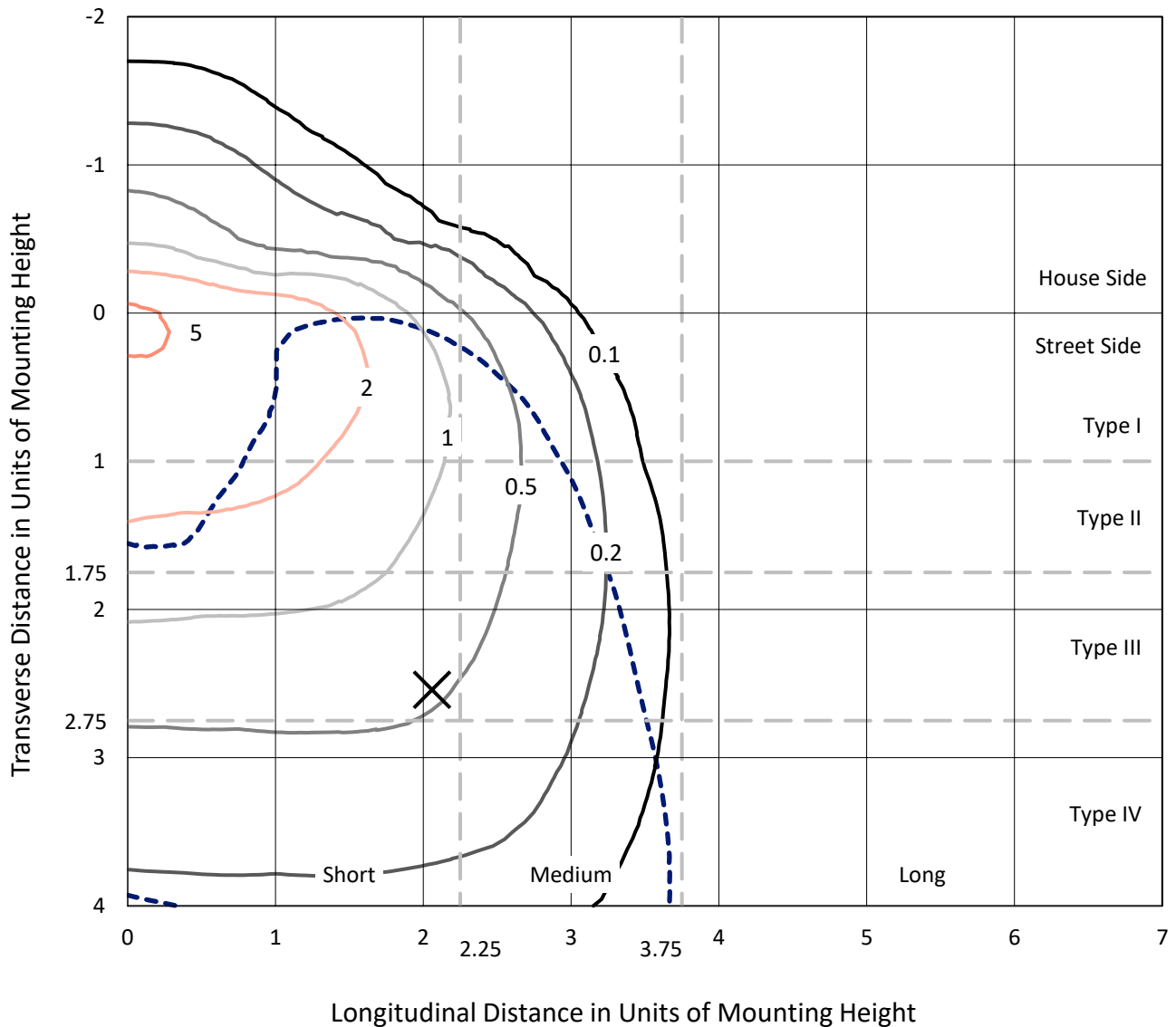
Lumens per Lamp: N/A
Luminaire Lumens: 20488.9 lumens
Efficiency: N/A
Efficacy: 127.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 160.8
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

REPORT NUMBER: P480888
 CATALOG NUMBER: IFLD-S-SA3C-740-U-SL4

Iso-Footcandle Lines of Horizontal Illumination

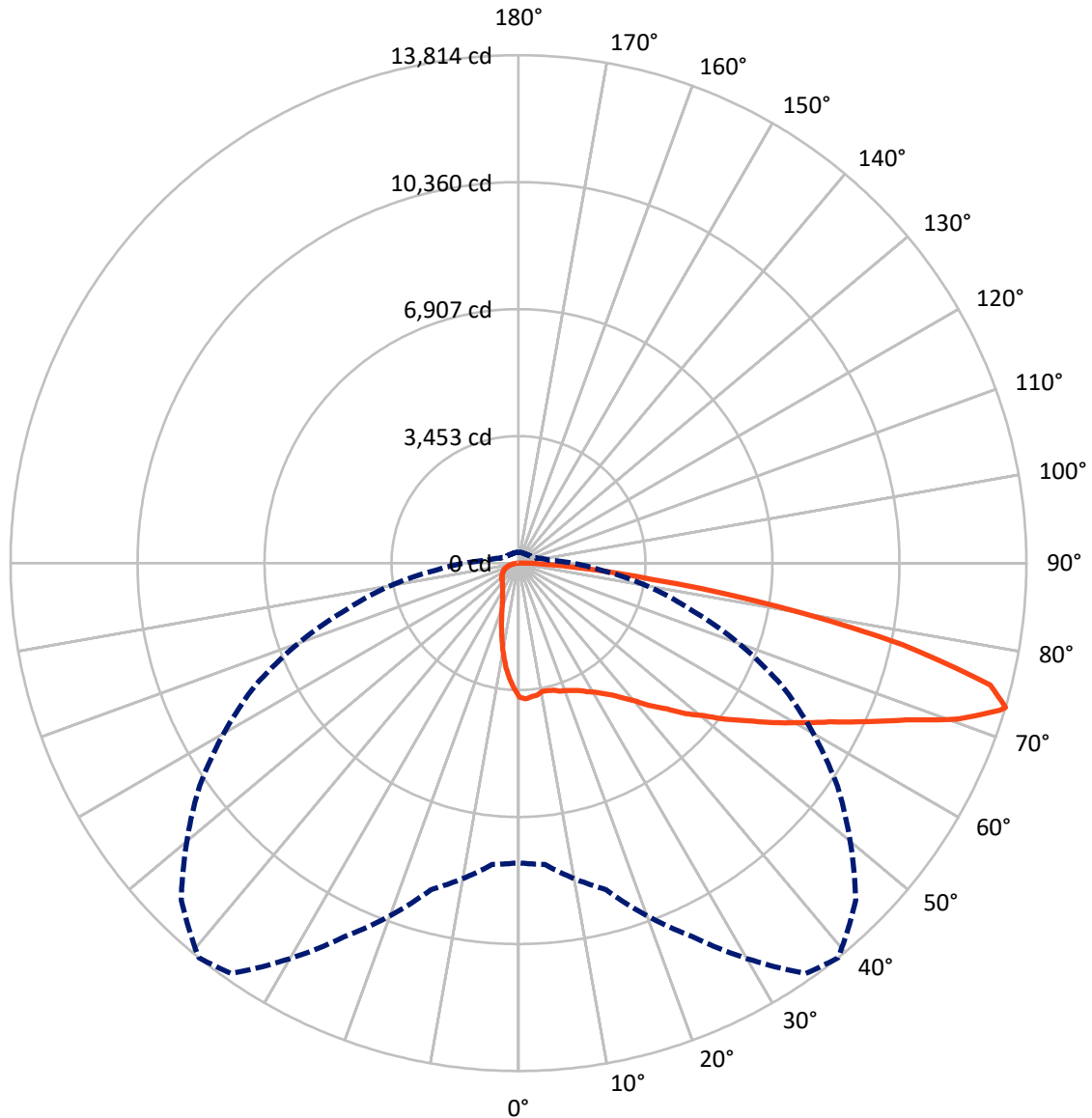
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 fc
 Type IV - Short - N/A

REPORT NUMBER: P480888
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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical



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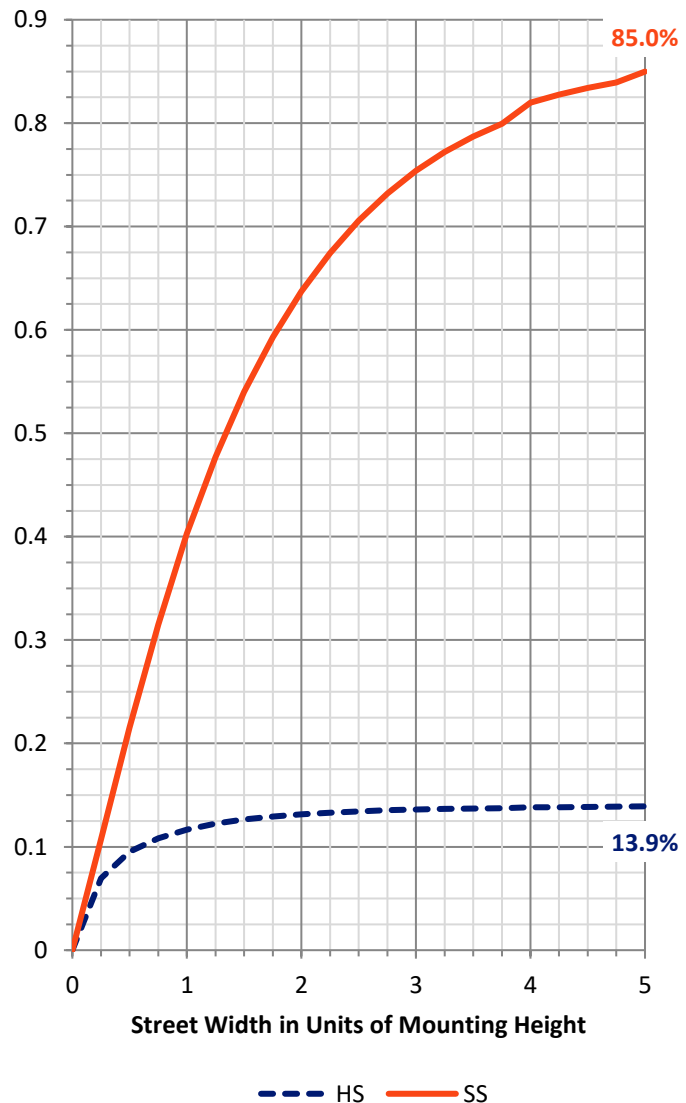
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2880.2	0.0	2880.2
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	17608.7	0.0	17608.7
	% Fixture	85.9	0.0	85.9
Total	Lumens	20488.9	0.0	20488.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	316.6	1.5
10°-20°	804.8	3.9
20°-30°	1229.9	6.0
30°-40°	1793.2	8.8
40°-50°	2709.7	13.2
50°-60°	3923.9	19.2
60°-70°	4985.5	24.3
70°-80°	4041.5	19.7
80°-90°	683.8	3.3
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°	20488.9	100.0
0°-180°	20488.9	100.0

Coefficient of Utilization



REPORT NUMBER: P480888

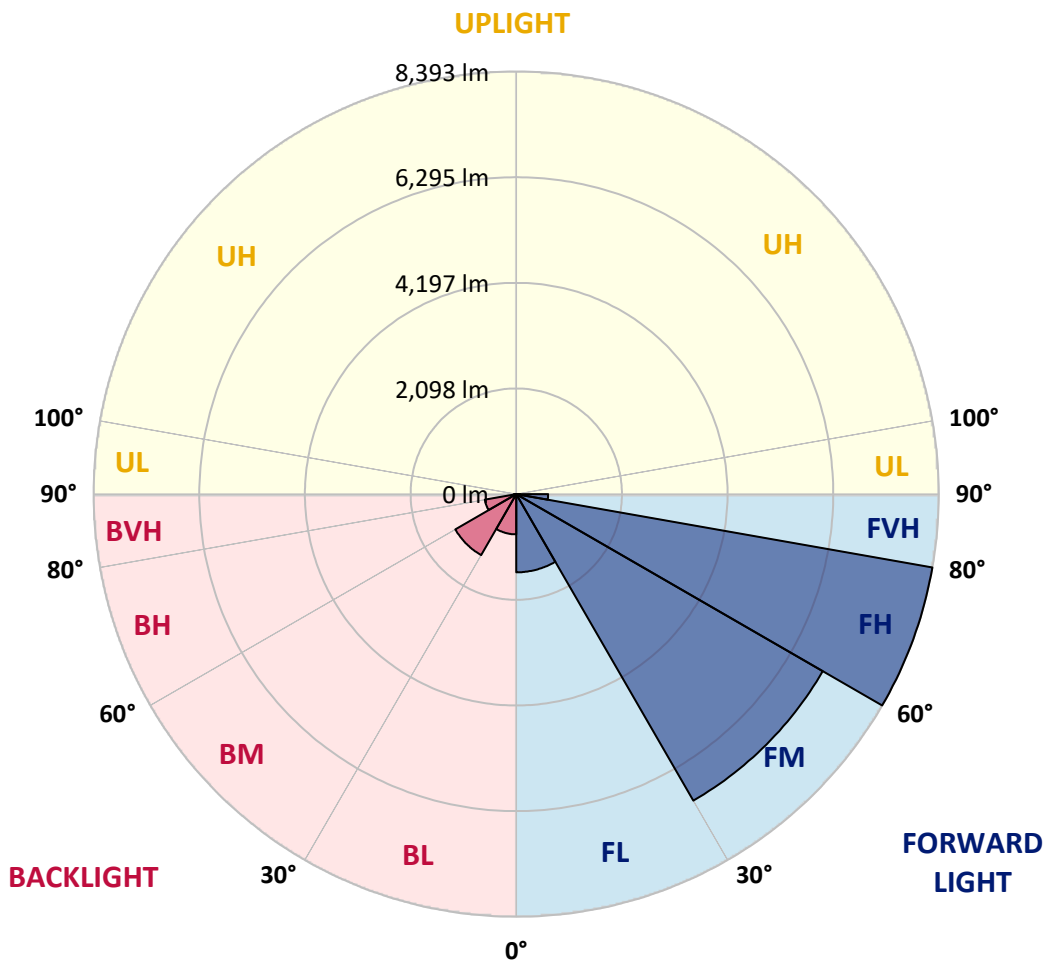
CATALOG NUMBER: IFLD-S-SA3C-740-U-SL4

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1552.6	7.6			
FM (30°-60°)	7029.0	34.3			
FH (60°-80°)	8393.5	41.0			G4/12000
FVH (80°-90°)	633.6	3.1			G4/750
BL (0°-30°)	798.7	3.9	B2/1000		
BM (30°-60°)	1397.8	6.8	B2/2500		
BH (60°-80°)	633.5	3.1	B2/1000		G2/1000
BVH (80°-90°)	50.2	0.2			G1/100
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





REPORT NUMBER: P480888
 CATALOG NUMBER: IFLD-S-SA3C-740-U-SL4

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	3647.1	3647.1	3647.1	3647.1	3647.1	3647.1	3647.1	3647.1	3647.1	3647.1	3647.1
2.5°	3734.3	3695.3	3702.2	3688.4	3702.2	3697.6	3690.7	3656.3	3690.7	3656.3	3647.1
5°	3683.8	3683.8	3706.8	3672.4	3677.0	3654.0	3677.0	3651.7	3628.8	3571.5	3555.5
7.5°	3667.8	3665.5	3667.8	3619.6	3642.6	3628.8	3605.9	3578.4	3532.5	3495.9	3443.1
10°	3557.7	3580.7	3555.5	3569.2	3587.5	3546.3	3544.0	3537.1	3516.5	3468.3	3436.3
12.5°	3498.1	3537.1	3550.9	3539.4	3555.5	3560.0	3546.3	3537.1	3511.9	3479.8	3388.1
15°	3523.4	3477.5	3516.5	3592.1	3576.1	3587.5	3589.8	3580.7	3569.2	3509.6	3450.0
17.5°	3530.2	3502.7	3585.3	3601.3	3621.9	3663.2	3635.7	3633.4	3589.8	3548.6	3461.5
20°	3546.3	3534.8	3601.3	3686.1	3688.4	3695.3	3709.0	3674.7	3651.7	3580.7	3447.7
22.5°	3605.9	3644.9	3706.8	3743.4	3764.1	3768.6	3768.6	3699.9	3674.7	3617.3	3511.9
25°	3784.7	3743.4	3830.5	3874.1	3844.3	3837.4	3821.4	3759.5	3732.0	3681.5	3541.7
27.5°	3915.4	3913.1	3963.5	4023.1	3942.9	3958.9	3901.6	3883.3	3821.4	3793.9	3594.4
30°	4094.2	4144.6	4142.3	4160.6	4055.2	4073.5	4000.2	3965.8	3931.4	3947.4	3750.3
32.5°	4323.4	4305.1	4334.9	4321.1	4215.7	4231.7	4144.6	4091.9	4103.3	4151.5	3963.5
35°	4470.1	4451.8	4463.2	4463.2	4431.1	4412.8	4376.1	4307.3	4362.4	4451.8	4201.9
37.5°	4628.3	4651.2	4717.7	4703.9	4662.7	4662.7	4658.1	4609.9	4681.0	4901.1	4582.4
40°	4768.1	4830.0	4871.3	4898.8	4946.9	4946.9	4985.9	4958.4	5086.8	5439.8	5047.8
42.5°	4914.8	4917.1	5141.8	5162.4	5270.1	5316.0	5345.8	5368.7	5609.4	6003.7	5545.2
45°	5102.8	5114.3	5311.4	5469.6	5636.9	5653.0	5765.3	5840.9	6136.7	6620.3	6086.2
47.5°	5350.4	5336.6	5547.5	5799.7	6008.3	6118.3	6253.6	6336.1	6700.6	7289.7	6677.7
50°	5675.9	5634.6	5756.1	6152.7	6398.0	6519.5	6760.2	6897.7	7324.1	7929.3	7083.4
52.5°	6072.5	6003.7	6100.0	6533.2	6808.3	7053.6	7282.8	7436.4	7881.1	8424.4	7383.7
55°	6492.0	6349.8	6377.4	6936.7	7333.3	7564.8	7878.9	8039.3	8493.2	8869.2	7684.0
57.5°	6906.9	6817.5	6762.5	7324.1	7959.1	8181.4	8470.3	8678.9	9064.0	9263.4	7938.5
60°	7255.3	7232.4	7143.0	7924.7	8621.6	8811.8	9114.4	9242.8	9533.9	9627.9	7943.0
62.5°	7541.9	7463.9	7606.1	8408.4	9295.5	9511.0	9843.4	9854.9	10061.2	9854.9	7709.2
65°	7766.5	7771.1	7998.1	8992.9	10074.9	10393.6	10661.8	10632.0	10499.0	9719.6	7156.8
67.5°	7970.5	8057.7	8390.0	9634.8	11076.7	11377.0	11675.0	11280.7	10618.2	9086.9	6077.1
70°	8131.0	8218.1	8919.6	10416.5	12257.3	12697.4	12763.9	11537.5	10070.4	7697.8	4584.7
72.5°	8112.7	8270.8	9219.9	11040.0	13304.9	13685.4	13149.0	10815.4	8390.0	5366.4	2675.2
73°	8151.6	8229.6	9194.7	11214.2	13623.5	13813.8	12970.2	10588.4	7913.2	4814.0	2262.6
75°	7399.7	7663.4	8738.5	10930.0	13282.0	13247.6	11943.2	8823.3	5625.5	2528.5	1095.7
77.5°	5474.2	5641.5	6886.3	8988.4	10902.5	10682.4	9009.0	5639.2	2670.6	937.6	591.4
80°	2675.2	2805.9	3649.4	5189.9	7129.2	7147.6	5591.1	2934.2	1143.9	529.5	403.5
82.5°	1336.4	1414.4	1753.7	2280.9	3507.3	3674.7	2835.7	1668.8	708.3	300.3	229.2
85°	873.4	928.4	1079.7	1116.4	1487.7	1570.3	1320.4	1302.1	460.8	162.8	185.7
87.5°	580.0	589.1	662.5	563.9	596.0	573.1	637.3	820.7	135.2	68.8	50.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P480888
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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3647.1	3647.1	3647.1	3647.1	3647.1	3647.1	3647.1	3647.1	3647.1	3647.1	3647.1
2.5°	3635.7	3603.6	3569.2	3521.1	3486.7	3434.0	3385.8	3365.2	3360.6	3362.9	3340.0
5°	3541.7	3495.9	3427.1	3328.5	3271.2	3184.1	3110.7	3071.8	3030.5	3037.4	3019.0
7.5°	3411.0	3360.6	3255.2	3140.5	2998.4	2874.6	2805.9	2709.6	2654.6	2613.3	2636.2
10°	3369.8	3282.7	3124.5	2966.3	2746.3	2583.5	2425.3	2315.3	2239.6	2166.3	2198.4
12.5°	3349.1	3262.0	3042.0	2808.1	2523.9	2276.3	2054.0	1918.7	1811.0	1746.8	1772.0
15°	3330.8	3223.1	2964.0	2633.9	2315.3	1989.8	1739.9	1561.1	1457.9	1396.0	1402.9
17.5°	3356.0	3202.4	2849.4	2464.3	2086.1	1737.6	1460.2	1274.6	1169.1	1130.1	1121.0
20°	3330.8	3179.5	2737.1	2294.7	1856.8	1496.9	1231.0	1077.4	1004.1	972.0	965.1
22.5°	3340.0	3124.5	2620.2	2106.7	1643.6	1295.2	1077.4	960.5	903.2	887.1	891.7
25°	3383.5	3092.4	2503.3	1900.4	1432.7	1146.2	978.8	889.4	848.2	832.1	836.7
27.5°	3415.6	3119.9	2397.8	1705.5	1253.9	1013.2	896.3	836.7	809.2	797.7	795.4
30°	3495.9	3136.0	2294.7	1531.3	1107.2	926.1	839.0	790.9	772.5	765.6	763.4
32.5°	3615.1	3165.8	2175.5	1370.8	999.5	843.6	793.2	751.9	747.3	740.4	742.7
35°	3809.9	3268.9	2042.5	1233.3	896.3	788.6	745.0	717.5	717.5	717.5	724.4
37.5°	4089.6	3413.3	1923.3	1102.6	829.8	740.4	703.8	694.6	690.0	696.9	701.5
40°	4449.5	3587.5	1827.0	999.5	772.5	708.3	676.2	671.7	669.4	667.1	671.7
42.5°	4843.8	3809.9	1744.5	919.2	731.3	674.0	651.0	646.4	637.3	641.9	648.7
45°	5235.8	4085.0	1671.1	855.1	703.8	655.6	623.5	621.2	616.6	614.4	625.8
47.5°	5671.3	4355.5	1648.2	816.1	683.1	628.1	605.2	602.9	589.1	586.8	596.0
50°	6010.6	4554.9	1673.4	797.7	653.3	607.5	591.4	580.0	568.5	557.0	557.0
52.5°	6244.4	4692.5	1691.8	784.0	637.3	580.0	559.3	554.8	543.3	531.8	527.2
55°	6455.3	4775.0	1696.3	786.3	621.2	547.9	534.1	531.8	525.0	506.6	502.0
57.5°	6526.4	4740.6	1604.7	765.6	612.1	527.2	508.9	513.5	504.3	488.3	486.0
60°	6519.5	4502.2	1396.0	738.1	591.4	504.3	481.4	495.2	495.2	476.8	474.5
62.5°	6122.9	3952.0	1141.6	685.4	568.5	481.4	456.2	476.8	483.7	472.2	469.9
65°	5299.9	3218.5	953.6	632.7	534.1	456.2	431.0	453.9	465.3	460.8	458.5
67.5°	4385.3	2462.0	793.2	563.9	490.6	421.8	401.2	417.2	424.1	426.4	428.7
70°	3099.3	1639.0	662.5	488.3	431.0	385.1	362.2	364.5	362.2	369.1	369.1
72.5°	1684.9	944.5	538.7	414.9	371.4	334.7	318.6	307.2	307.2	304.9	304.9
73°	1441.9	848.2	513.5	403.5	355.3	325.5	307.2	298.0	298.0	295.7	293.4
75°	809.2	621.2	440.1	346.1	307.2	284.3	270.5	256.7	254.5	254.5	254.5
77.5°	531.8	483.7	350.7	277.4	247.6	226.9	222.4	208.6	208.6	208.6	206.3
80°	398.9	380.5	270.5	210.9	190.3	174.2	169.6	160.5	158.2	149.0	151.3
82.5°	265.9	300.3	197.1	149.0	128.4	119.2	119.2	116.9	110.0	98.6	98.6
85°	210.9	245.3	142.1	91.7	75.6	64.2	66.5	64.2	61.9	50.4	48.1
87.5°	39.0	98.6	41.3	25.2	18.3	11.5	11.5	6.9	4.6	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)