

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: P638337

Luminaire Tested: **IFLD-S-SA3A-727-U-LAM-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638337
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3A-727-U-LAM-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens and Visor
Light Source: (48) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8480.5 lumens
Efficiency: N/A
Efficacy: 89.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G1

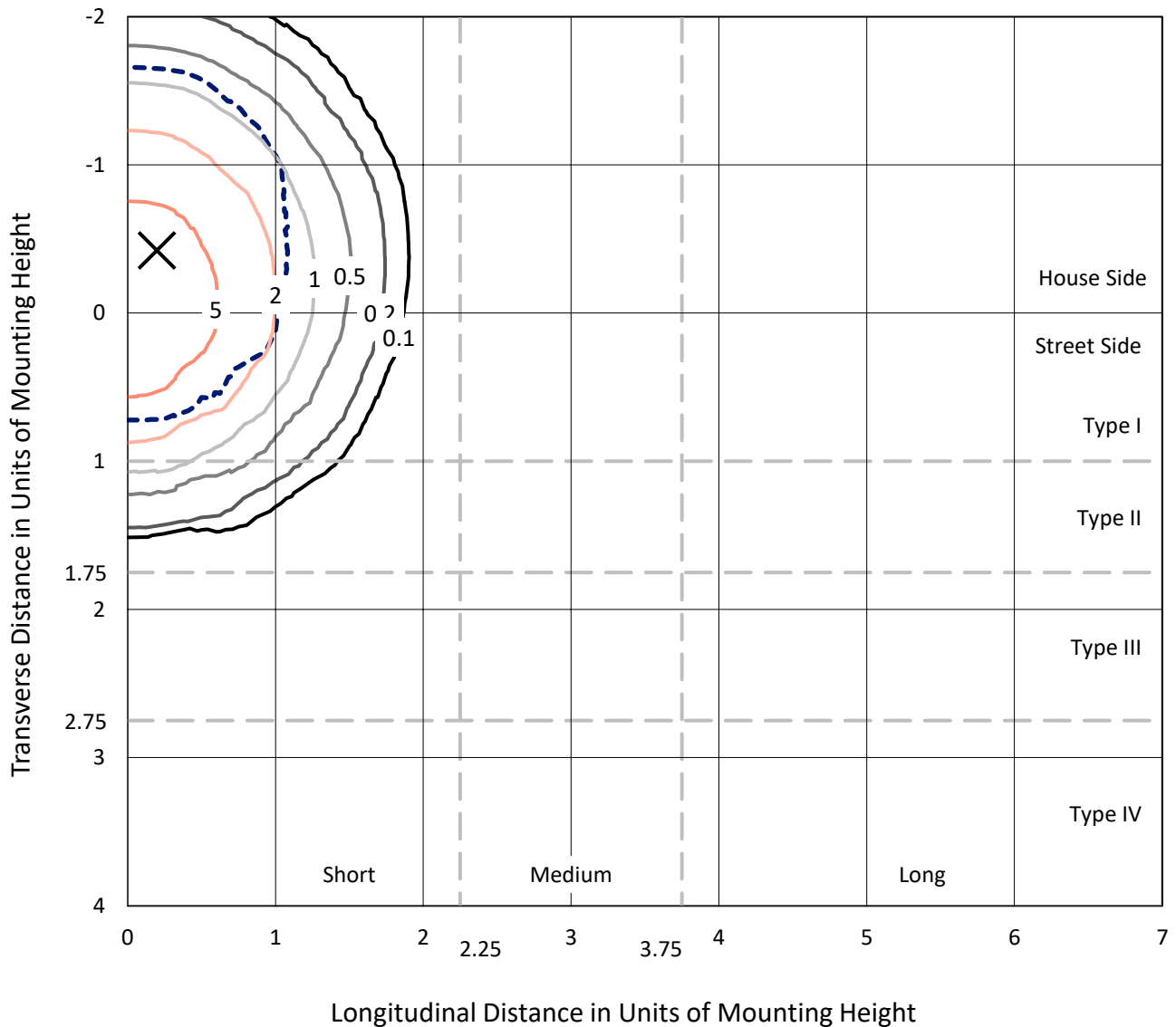
Input Watts (W): 94.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P638337
 CATALOG NUMBER: IFLD-S-SA3A-727-U-LAM-VI

Iso-Footcandle Lines of Horizontal Illumination

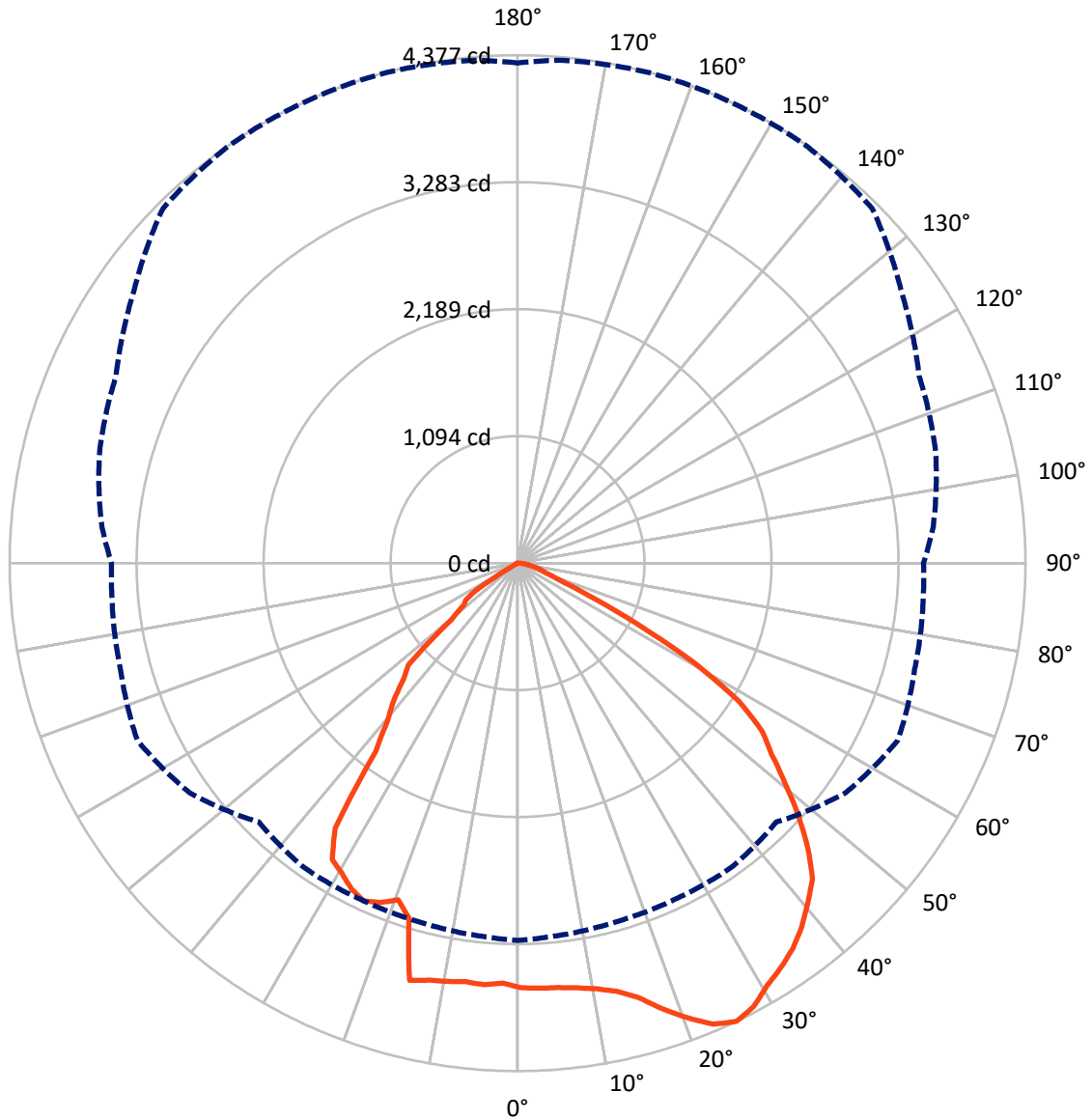
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 9.1 fc
 Type I - Short - N/A

REPORT NUMBER: P638337
CATALOG NUMBER: IFLD-S-SA3A-727-U-LAM-VI

Luminous Intensity Polar Plot



— Vertical Plane Through 155-Deg Lateral - - - Horizontal Cone Through 25-Deg Vertical

REPORT NUMBER: P638337
 CATALOG NUMBER: IFLD-S-SA3A-727-U-LAM-VI

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5250.3	0.0	5250.3
	% Fixture	61.9	0.0	61.9
Street Side	Lumens	3230.2	0.0	3230.2
	% Fixture	38.1	0.0	38.1
Total	Lumens	8480.5	0.0	8480.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	351.1	4.1
10°-20°	1071.9	12.6
20°-30°	1694.6	20.0
30°-40°	1914.2	22.6
40°-50°	1792.7	21.1
50°-60°	1236.0	14.6
60°-70°	332.1	3.9
70°-80°	69.2	0.8
80°-90°	18.7	0.2
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°	8480.5	100.0
0°-180°	8480.5	100.0



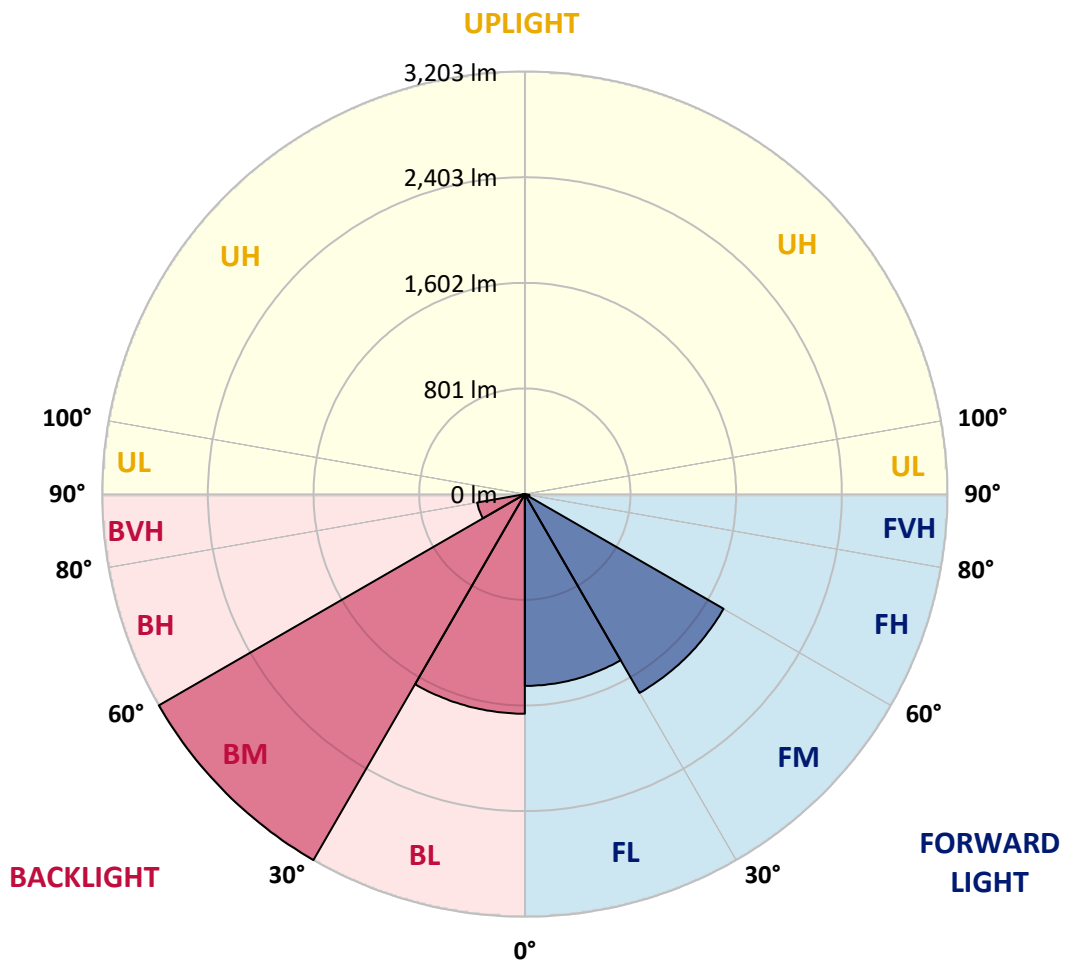
REPORT NUMBER: P638337
 CATALOG NUMBER: IFLD-S-SA3A-727-U-LAM-VI

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1453.3	17.1			
FM (30°-60°)	1739.6	20.5			
FH (60°-80°)	34.9	0.4			G0/660
FVH (80°-90°)	2.5	0.0			G0/10
BL (0°-30°)	1664.3	19.6	B3/2500		
BM (30°-60°)	3203.4	37.8	B3/5000		
BH (60°-80°)	366.4	4.3	B1/500		G1/500
BVH (80°-90°)	16.2	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type I Short





REPORT NUMBER: P638337
 CATALOG NUMBER: IFLD-S-SA3A-727-U-LAM-VI

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3659.2	3659.2	3659.2	3659.2	3659.2	3659.2	3659.2	3659.2	3659.2	3659.2
2.5°	3675.4	3651.7	3629.3	3621.8	3653.0	3686.6	3665.4	3666.7	3659.2	3672.9
5°	3702.8	3670.4	3655.5	3644.2	3649.2	3684.1	3654.2	3665.4	3653.0	3669.2
7.5°	3692.8	3670.4	3655.5	3634.3	3650.5	3691.6	3662.9	3664.2	3658.0	3672.9
10°	3686.6	3670.4	3651.7	3654.2	3672.9	3707.8	3685.4	3697.8	3689.1	3697.8
12.5°	3701.6	3684.1	3674.2	3674.2	3690.4	3730.2	3719.0	3730.2	3726.5	3734.0
15°	3560.7	3576.9	3671.7	3714.0	3746.4	3786.3	3781.3	3792.6	3795.0	3806.3
17.5°	3003.6	2987.4	2980.0	3198.1	3777.6	3901.0	3897.2	3896.0	3883.5	3874.8
20°	3077.2	3070.9	3062.2	3078.4	3143.2	3960.8	3985.7	3832.4	3787.6	3783.8
22.5°	3194.3	3184.3	3151.9	3153.2	3173.1	3443.6	3862.3	3722.8	3707.8	3699.1
25°	3251.7	3231.7	3205.5	3198.1	3204.3	3154.4	3449.8	3615.6	3542.0	3508.4
27.5°	3150.7	3151.9	3130.8	3150.7	3127.0	2902.7	2776.8	3406.2	3403.7	3388.7
30°	3074.7	3070.9	3046.0	3070.9	2907.7	2657.2	2603.6	3176.9	3150.7	3130.8
32.5°	2841.6	2844.1	2916.4	3013.6	2745.6	2547.5	2385.5	2837.9	3085.9	3074.7
35°	2032.7	2037.7	2294.5	2774.3	2500.1	2329.4	2316.9	2452.8	2983.7	2988.7
37.5°	1956.7	1956.7	1950.5	2029.0	2306.9	2240.9	2265.8	2252.1	2733.2	2745.6
40°	1901.9	1890.7	1881.9	1758.6	1604.0	2178.6	2196.0	2133.7	2583.6	2586.1
42.5°	1835.8	1823.4	1825.9	1597.8	1435.8	2024.0	1975.4	1891.9	2334.4	2336.9
45°	1714.9	1736.1	1751.1	1398.4	1385.9	1445.7	1822.1	1769.8	2166.1	2212.2
47.5°	872.4	891.1	1367.2	1286.2	1314.9	1285.0	1539.2	1540.5	1802.2	1955.5
50°	791.4	786.4	787.7	750.3	1213.9	1039.4	1113.0	1412.1	1443.2	1662.6
52.5°	737.8	736.6	660.6	587.0	762.7	914.8	807.6	1022.0	1073.1	1408.3
55°	545.9	585.8	521.0	552.1	477.3	732.8	729.1	922.3	939.7	1129.2
57.5°	5.0	6.2	15.0	420.0	330.3	366.4	503.5	629.4	660.6	879.9
60°	1.2	2.5	6.2	12.5	214.4	225.6	336.5	363.9	410.0	524.7
62.5°	0.0	0.0	2.5	6.2	11.2	92.2	107.2	117.2	180.7	268.0
65°	0.0	0.0	1.2	3.7	6.2	15.0	26.2	54.8	78.5	97.2
67.5°	0.0	0.0	1.2	2.5	5.0	7.5	15.0	21.2	33.7	57.3
70°	0.0	0.0	1.2	2.5	3.7	6.2	10.0	15.0	19.9	28.7
72.5°	0.0	0.0	1.2	2.5	2.5	7.5	7.5	11.2	15.0	18.7
75°	0.0	0.0	1.2	1.2	2.5	5.0	7.5	8.7	10.0	15.0
77.5°	0.0	0.0	1.2	2.5	3.7	5.0	6.2	10.0	8.7	8.7
80°	0.0	0.0	1.2	3.7	3.7	6.2	7.5	10.0	6.2	6.2
82.5°	0.0	0.0	1.2	5.0	3.7	12.5	12.5	13.7	5.0	5.0
85°	0.0	0.0	3.7	2.5	7.5	12.5	11.2	7.5	6.2	3.7
87.5°	0.0	0.0	1.2	1.2	2.5	3.7	8.7	7.5	2.5	2.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P638337
 CATALOG NUMBER: IFLD-S-SA3A-727-U-LAM-VI

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
3659.2	0°	3659.2	3659.2	3659.2	3659.2	3659.2	3659.2	3659.2	3659.2	3659.2
3636.8	2.5°	3686.6	3670.4	3704.1	3700.3	3684.1	3676.6	3667.9	3660.4	3605.6
3639.3	5°	3687.9	3662.9	3704.1	3696.6	3694.1	3681.6	3674.2	3685.4	3635.5
3649.2	7.5°	3687.9	3662.9	3707.8	3710.3	3706.6	3696.6	3695.3	3702.8	3661.7
3666.7	10°	3712.8	3702.8	3740.2	3743.9	3739.0	3736.5	3730.2	3725.3	3681.6
3726.5	12.5°	3765.1	3745.2	3787.6	3798.8	3795.0	3801.3	3786.3	3793.8	3748.9
3787.6	15°	3828.7	3829.9	3862.3	3887.3	3884.8	3904.7	3882.3	3902.2	3869.8
3857.4	17.5°	3925.9	3939.6	3985.7	4023.1	4036.8	4051.8	4036.8	4043.1	3997.0
3780.1	20°	3823.7	3874.8	4096.7	4165.2	4193.9	4207.6	4182.7	4190.1	4144.0
3685.4	22.5°	3731.5	3797.5	3994.5	4208.8	4297.3	4324.7	4316.0	4314.8	4297.3
3498.4	25°	3595.6	3729.0	3817.5	4044.3	4322.2	4372.1	4377.1	4375.8	4349.7
3383.8	27.5°	3428.6	3458.5	3687.9	3826.2	4147.8	4337.2	4329.7	4293.6	4258.7
3145.7	30°	3215.5	3351.4	3454.8	3675.4	3922.2	4230.0	4230.0	4202.6	4166.5
3061.0	32.5°	3107.1	3282.8	3378.8	3458.5	3669.2	4110.4	4160.2	4131.6	4102.9
2994.9	35°	3049.7	3075.9	3300.3	3372.5	3550.8	3879.8	4081.7	4053.0	4031.8
2819.2	37.5°	2923.9	2984.9	3089.6	3282.8	3337.6	3691.6	3977.0	3962.1	3937.1
2591.1	40°	2643.4	2806.7	2967.5	3150.7	3208.0	3449.8	3849.9	3856.1	3822.5
2348.1	42.5°	2477.7	2588.6	2840.4	2963.8	3118.3	3294.0	3726.5	3736.5	3712.8
2224.7	45°	2283.3	2406.6	2583.6	2808.0	3018.6	3079.7	3508.4	3613.1	3593.1
1979.2	47.5°	2105.0	2204.7	2421.6	2648.4	2881.5	2872.8	3257.9	3454.8	3427.4
1791.0	50°	1852.0	2026.5	2128.7	2336.9	2684.6	2708.3	2991.2	3269.1	3246.7
1521.8	52.5°	1561.6	1781.0	1976.7	2167.4	2485.2	2541.2	2743.2	3079.7	3064.7
1162.8	55°	1364.7	1524.3	1744.8	1898.1	2243.4	2392.9	2557.5	2898.9	2891.5
955.9	57.5°	970.9	1278.7	1460.7	1675.1	1857.0	2127.5	2249.6	2531.3	2461.5
529.7	60°	658.1	802.6	1024.5	1255.0	1377.2	1647.6	1761.1	1986.6	1967.9
316.6	62.5°	347.7	481.1	639.4	755.3	843.8	1106.7	1154.1	1397.1	1390.9
127.1	65°	153.3	203.2	346.5	406.3	497.3	619.4	660.6	747.8	726.6
62.3	67.5°	79.8	120.9	195.7	240.5	302.9	349.0	382.6	410.0	427.5
41.1	70°	48.6	88.5	120.9	167.0	208.1	245.5	271.7	309.1	331.5
21.2	72.5°	36.1	56.1	83.5	128.4	150.8	194.4	220.6	248.0	268.0
17.4	75°	19.9	37.4	67.3	101.0	120.9	158.3	182.0	200.7	206.9
10.0	77.5°	12.5	28.7	56.1	78.5	94.7	128.4	122.1	139.6	154.5
7.5	80°	8.7	21.2	43.6	64.8	66.1	82.3	97.2	112.2	122.1
5.0	82.5°	6.2	17.4	32.4	49.9	43.6	63.6	76.0	87.2	63.6
3.7	85°	5.0	12.5	16.2	29.9	24.9	44.9	38.6	37.4	24.9
2.5	87.5°	3.7	6.2	11.2	13.7	10.0	10.0	12.5	15.0	12.5
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
3659.2
3568.2
3593.1
3614.3
3645.5
3709.1
3816.2
3957.1
4111.6
4241.2
4309.8
4231.3
4152.7
4079.2
4001.9
3912.2
3815.0
3710.3
3595.6
3447.3
3250.4
3074.7
2900.2
2454.0
1969.2
1392.1
717.9
427.5
332.8
271.7
203.2
157.0
123.4
46.1
24.9
12.5
0.0

(END OF REPORT)