

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: P638388

Luminaire Tested: **IFLD-L-SA8C-730-U-LAM-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638388
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8C-730-U-LAM-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens and Visor
Light Source: (128) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34002.9 lumens
Efficiency: N/A
Efficacy: 80.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G3

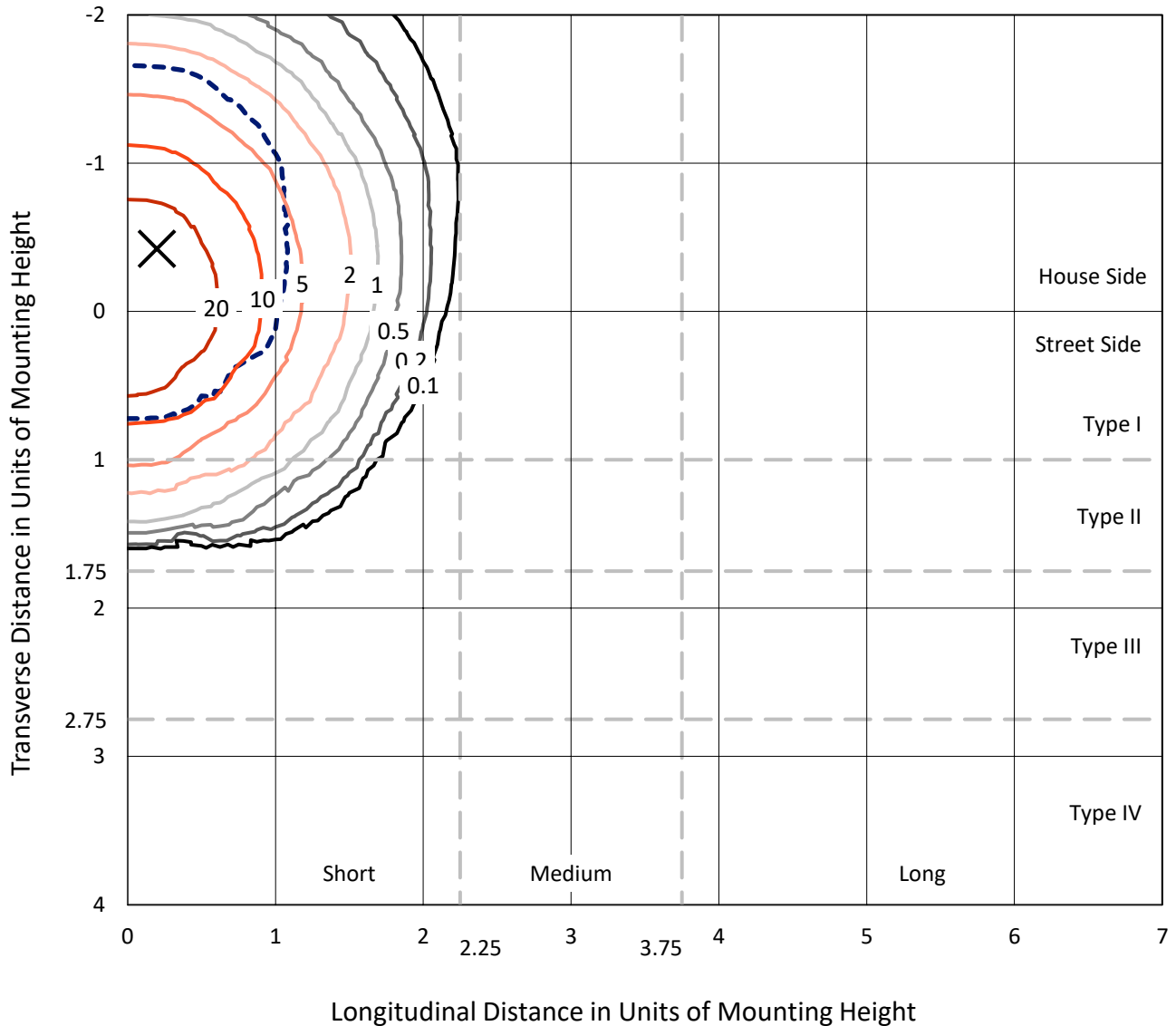
Input Watts (W): 420.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

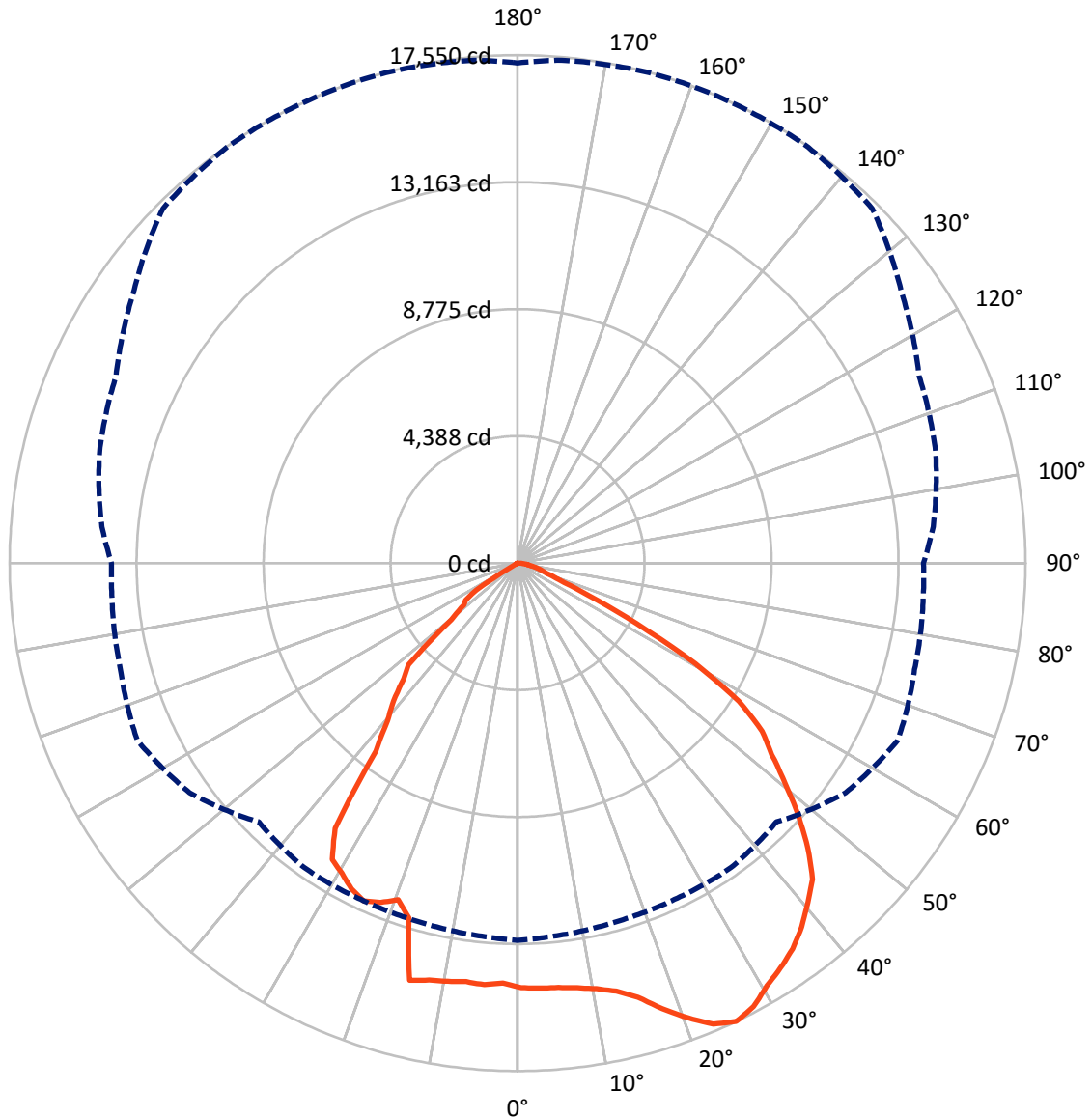
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 36.7 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	21051.3	0.0	21051.3
	% Fixture	61.9	0.0	61.9
Street Side	Lumens	12951.6	0.0	12951.6
	% Fixture	38.1	0.0	38.1
Total	Lumens	34002.9	0.0	34002.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1407.6	4.1
10°-20°	4297.9	12.6
20°-30°	6794.7	20.0
30°-40°	7675.2	22.6
40°-50°	7188.0	21.1
50°-60°	4955.6	14.6
60°-70°	1331.4	3.9
70°-80°	277.5	0.8
80°-90°	75.1	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°	34002.9	100.0
0°-180°	34002.9	100.0



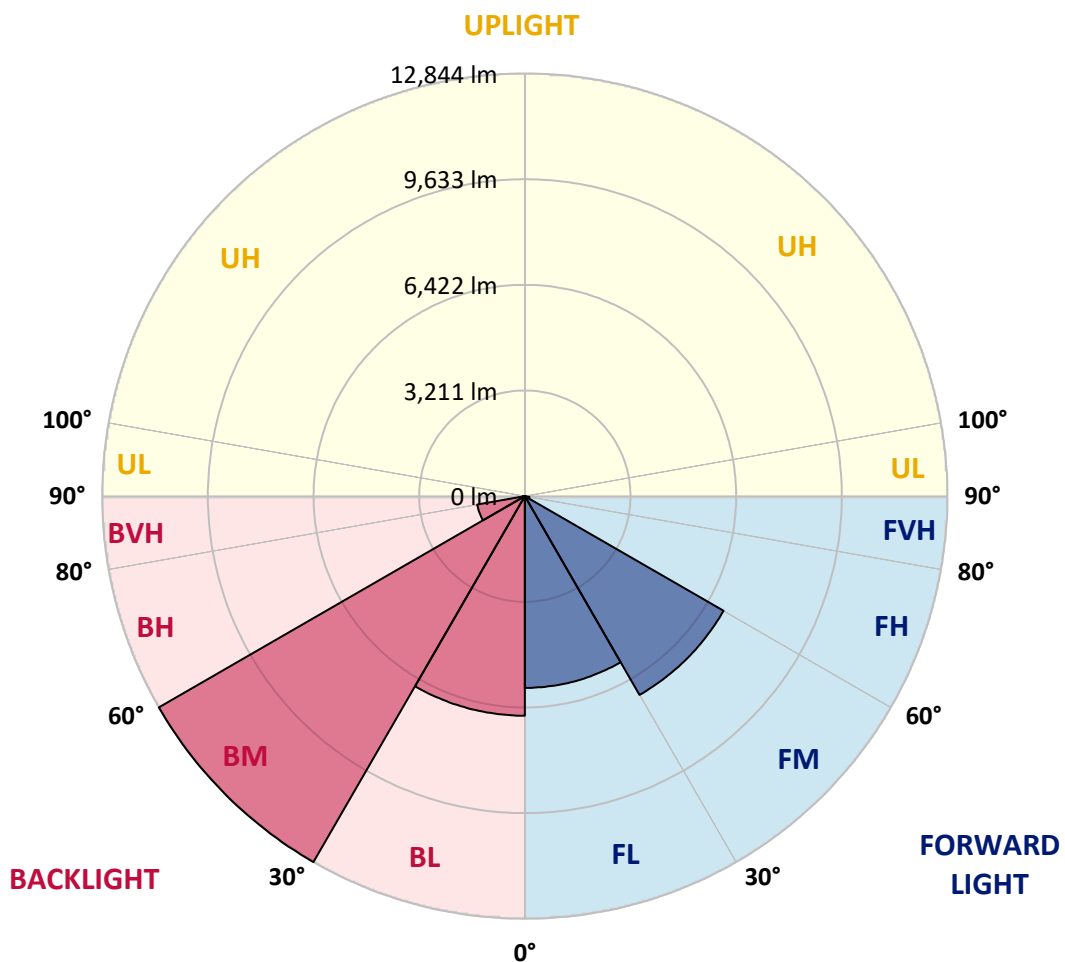
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5827.0	17.1			
FM (30°-60°)	6974.8	20.5			
FH (60°-80°)	139.8	0.4			G0/660
FVH (80°-90°)	10.1	0.0			G1/100
BL (0°-30°)	6673.1	19.6	B5		
BM (30°-60°)	12844.1	37.8	B5		
BH (60°-80°)	1469.1	4.3	B3/2500		G3/2500
BVH (80°-90°)	65.0	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	14671.6	14671.6	14671.6	14671.6	14671.6	14671.6	14671.6	14671.6	14671.6	14671.6
2.5°	14736.6	14641.7	14551.7	14521.7	14646.7	14781.6	14696.6	14701.6	14671.6	14726.6
5°	14846.5	14716.6	14656.7	14611.7	14631.7	14771.6	14651.7	14696.6	14646.7	14711.6
7.5°	14806.6	14716.6	14656.7	14571.7	14636.7	14801.6	14686.6	14691.6	14666.6	14726.6
10°	14781.6	14716.6	14641.7	14651.7	14726.6	14866.5	14776.6	14826.6	14791.6	14826.6
12.5°	14841.5	14771.6	14731.6	14731.6	14796.6	14956.5	14911.5	14956.5	14941.5	14971.5
15°	14276.9	14341.8	14721.6	14891.5	15021.4	15181.4	15161.4	15206.3	15216.3	15261.3
17.5°	12043.1	11978.2	11948.2	12822.7	15146.4	15641.1	15626.1	15621.1	15571.1	15536.2
20°	12338.0	12313.0	12278.0	12343.0	12602.8	15881.0	15980.9	15366.3	15186.4	15171.4
22.5°	12807.7	12767.7	12637.8	12642.8	12722.8	13807.1	15486.2	14926.5	14866.5	14831.6
25°	13037.6	12957.6	12852.7	12822.7	12847.7	12647.8	13832.1	14496.7	14201.9	14067.0
27.5°	12632.8	12637.8	12552.9	12632.8	12537.9	11638.4	11133.7	13657.2	13647.2	13587.3
30°	12328.0	12313.0	12213.0	12313.0	11658.4	10653.9	10439.1	12737.7	12632.8	12552.9
32.5°	11393.5	11403.5	11693.3	12083.1	11008.7	10214.2	9564.6	11378.5	12373.0	12328.0
35°	8150.4	8170.3	9199.8	11123.7	10024.3	9339.7	9289.7	9834.4	11963.2	11983.2
37.5°	7845.5	7845.5	7820.5	8135.4	9249.7	8984.9	9084.8	9029.9	10958.8	11008.7
40°	7625.7	7580.7	7545.7	7051.0	6431.3	8735.0	8805.0	8555.1	10359.1	10369.1
42.5°	7360.8	7310.8	7320.8	6406.4	5756.7	8115.4	7920.5	7585.7	9359.7	9369.7
45°	6876.1	6961.0	7021.0	5606.8	5556.8	5796.7	7305.8	7096.0	8685.1	8869.9
47.5°	3498.0	3573.0	5481.9	5157.1	5272.0	5152.1	6171.5	6176.5	7225.9	7840.5
50°	3173.2	3153.2	3158.2	3008.3	4867.2	4167.6	4462.5	5661.8	5786.7	6666.2
52.5°	2958.3	2953.3	2648.5	2353.7	3058.3	3667.9	3238.2	4097.7	4302.6	5646.8
55°	2188.8	2348.7	2088.8	2213.7	1913.9	2938.3	2923.3	3697.9	3767.9	4527.4
57.5°	20.0	25.0	60.0	1684.0	1324.2	1469.2	2018.9	2523.6	2648.5	3528.0
60°	5.0	10.0	25.0	50.0	859.5	904.5	1349.2	1459.2	1644.1	2103.8
62.5°	0.0	0.0	10.0	25.0	45.0	369.8	429.8	469.7	724.6	1074.4
65°	0.0	0.0	5.0	15.0	25.0	60.0	104.9	219.9	314.8	389.8
67.5°	0.0	0.0	5.0	10.0	20.0	30.0	60.0	85.0	134.9	229.9
70°	0.0	0.0	5.0	10.0	15.0	25.0	40.0	60.0	80.0	114.9
72.5°	0.0	0.0	5.0	10.0	10.0	30.0	30.0	45.0	60.0	75.0
75°	0.0	0.0	5.0	5.0	10.0	20.0	30.0	35.0	40.0	60.0
77.5°	0.0	0.0	5.0	10.0	15.0	20.0	25.0	40.0	35.0	35.0
80°	0.0	0.0	5.0	15.0	15.0	25.0	30.0	40.0	25.0	25.0
82.5°	0.0	0.0	5.0	20.0	15.0	50.0	50.0	55.0	20.0	20.0
85°	0.0	0.0	15.0	10.0	30.0	50.0	45.0	30.0	25.0	15.0
87.5°	0.0	0.0	5.0	5.0	10.0	15.0	35.0	30.0	10.0	10.0
90°	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°
14671.6	0°	14671.6	14671.6	14671.6	14671.6	14671.6	14671.6	14671.6	14671.6	14671.6
14581.7	2.5°	14781.6	14716.6	14851.5	14836.6	14771.6	14741.6	14706.6	14676.6	14456.8
14591.7	5°	14786.6	14686.6	14851.5	14821.6	14811.6	14761.6	14731.6	14776.6	14576.7
14631.7	7.5°	14786.6	14686.6	14866.5	14876.5	14861.5	14821.6	14816.6	14846.5	14681.6
14701.6	10°	14886.5	14846.5	14996.5	15011.5	14991.5	14981.5	14956.5	14936.5	14761.6
14941.5	12.5°	15096.4	15016.4	15186.4	15231.3	15216.3	15241.3	15181.4	15211.3	15031.4
15186.4	15°	15351.3	15356.3	15486.2	15586.1	15576.1	15656.1	15566.1	15646.1	15516.2
15466.2	17.5°	15741.0	15796.0	15980.9	16130.8	16185.8	16245.7	16185.8	16210.8	16025.9
15156.4	20°	15331.3	15536.2	16425.6	16700.5	16815.4	16870.4	16770.5	16800.4	16615.5
14776.6	22.5°	14961.5	15226.3	16015.9	16875.4	17230.2	17340.1	17305.1	17300.1	17230.2
14027.0	25°	14416.8	14951.5	15306.3	16215.8	17330.1	17530.0	17550.0	17545.0	17440.1
13567.3	27.5°	13747.2	13867.1	14786.6	15341.3	16630.5	17390.1	17360.1	17215.2	17075.3
12612.8	30°	12892.7	13437.3	13852.1	14736.6	15726.0	16960.3	16960.3	16850.4	16705.5
12273.0	32.5°	12457.9	13162.5	13547.3	13867.1	14711.6	16480.6	16680.5	16565.6	16450.6
12008.2	35°	12228.0	12333.0	13232.5	13522.3	14236.9	15556.1	16365.7	16250.7	16165.8
11303.6	37.5°	11723.3	11968.2	12387.9	13162.5	13382.4	14801.6	15945.9	15886.0	15786.0
10389.1	40°	10599.0	11253.6	11898.2	12632.8	12862.7	13832.1	15436.2	15461.2	15326.3
9414.6	42.5°	9934.3	10379.1	11388.5	11883.2	12502.9	13207.5	14941.5	14981.5	14886.5
8919.9	45°	9154.8	9649.5	10359.1	11258.6	12103.1	12348.0	14067.0	14486.8	14406.8
7935.5	47.5°	8440.2	8840.0	9709.5	10619.0	11553.4	11518.4	13062.6	13852.1	13742.2
7180.9	50°	7425.8	8125.4	8535.1	9369.7	10763.9	10858.8	11993.2	13107.5	13017.6
6101.5	52.5°	6261.4	7140.9	7925.5	8690.1	9964.3	10189.2	10998.7	12348.0	12288.0
4662.3	55°	5471.9	6111.5	6996.0	7610.7	8994.9	9594.5	10254.2	11623.4	11593.4
3832.8	57.5°	3892.8	5127.1	5856.7	6716.2	7445.8	8530.1	9019.9	10149.2	9869.4
2123.8	60°	2638.5	3218.2	4107.7	5032.1	5521.9	6606.2	7061.0	7965.5	7890.5
1269.3	62.5°	1394.2	1928.9	2563.5	3028.3	3383.1	4437.5	4627.4	5601.8	5576.8
509.7	65°	614.7	814.5	1389.2	1629.1	1993.9	2483.6	2648.5	2998.3	2913.3
249.9	67.5°	319.8	484.7	784.6	964.5	1214.3	1399.2	1534.1	1644.1	1714.0
164.9	70°	194.9	354.8	484.7	669.6	834.5	984.4	1089.4	1239.3	1329.2
85.0	72.5°	144.9	224.9	334.8	514.7	604.7	779.6	884.5	994.4	1074.4
70.0	75°	80.0	149.9	269.8	404.8	484.7	634.6	729.6	804.5	829.5
40.0	77.5°	50.0	114.9	224.9	314.8	379.8	514.7	489.7	559.7	619.6
30.0	80°	35.0	85.0	174.9	259.9	264.8	329.8	389.8	449.7	489.7
20.0	82.5°	25.0	70.0	129.9	199.9	174.9	254.9	304.8	349.8	254.9
15.0	85°	20.0	50.0	65.0	119.9	99.9	179.9	154.9	149.9	99.9
10.0	87.5°	15.0	25.0	45.0	55.0	40.0	40.0	50.0	60.0	50.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
14671.6
14306.9
14406.8
14491.7
14616.7
14871.5
15301.3
15866.0
16485.6
17005.3
17280.2
16965.3
16650.5
16355.7
16045.9
15686.1
15296.3
14876.5
14416.8
13822.1
13032.6
12328.0
11628.4
9839.4
7895.5
5581.8
2878.4
1714.0
1334.2
1089.4
814.5
629.6
494.7
184.9
99.9
50.0
0.0

(END OF REPORT)