

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: P638549

Luminaire Tested: **IFLD-S-SA6E-830-U-LAM-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638549
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6E-830-U-LAM-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens and Visor
Light Source: (96) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30988.4 lumens
Efficiency: N/A
Efficacy: 66.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G3

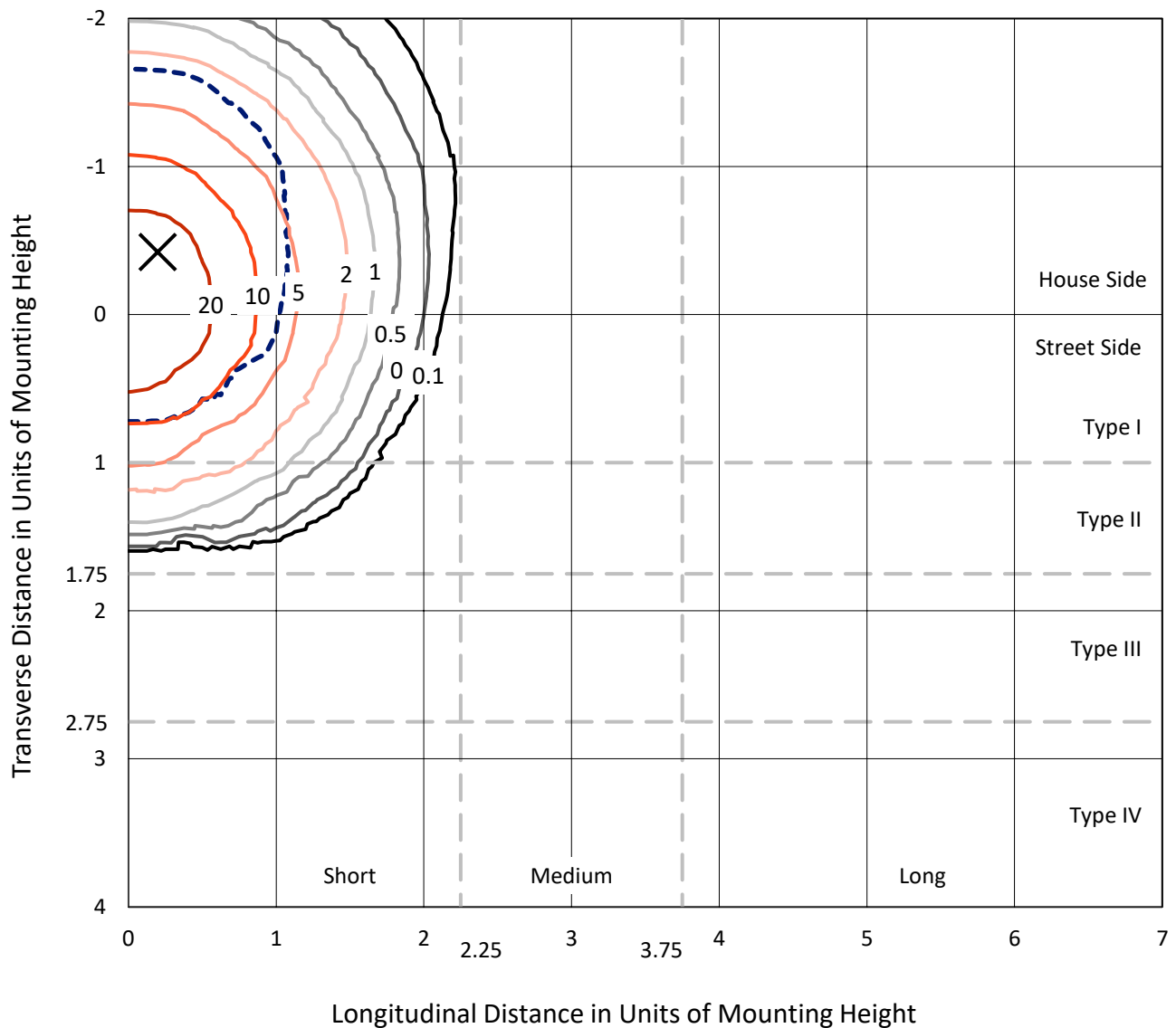
Input Watts (W): 464.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

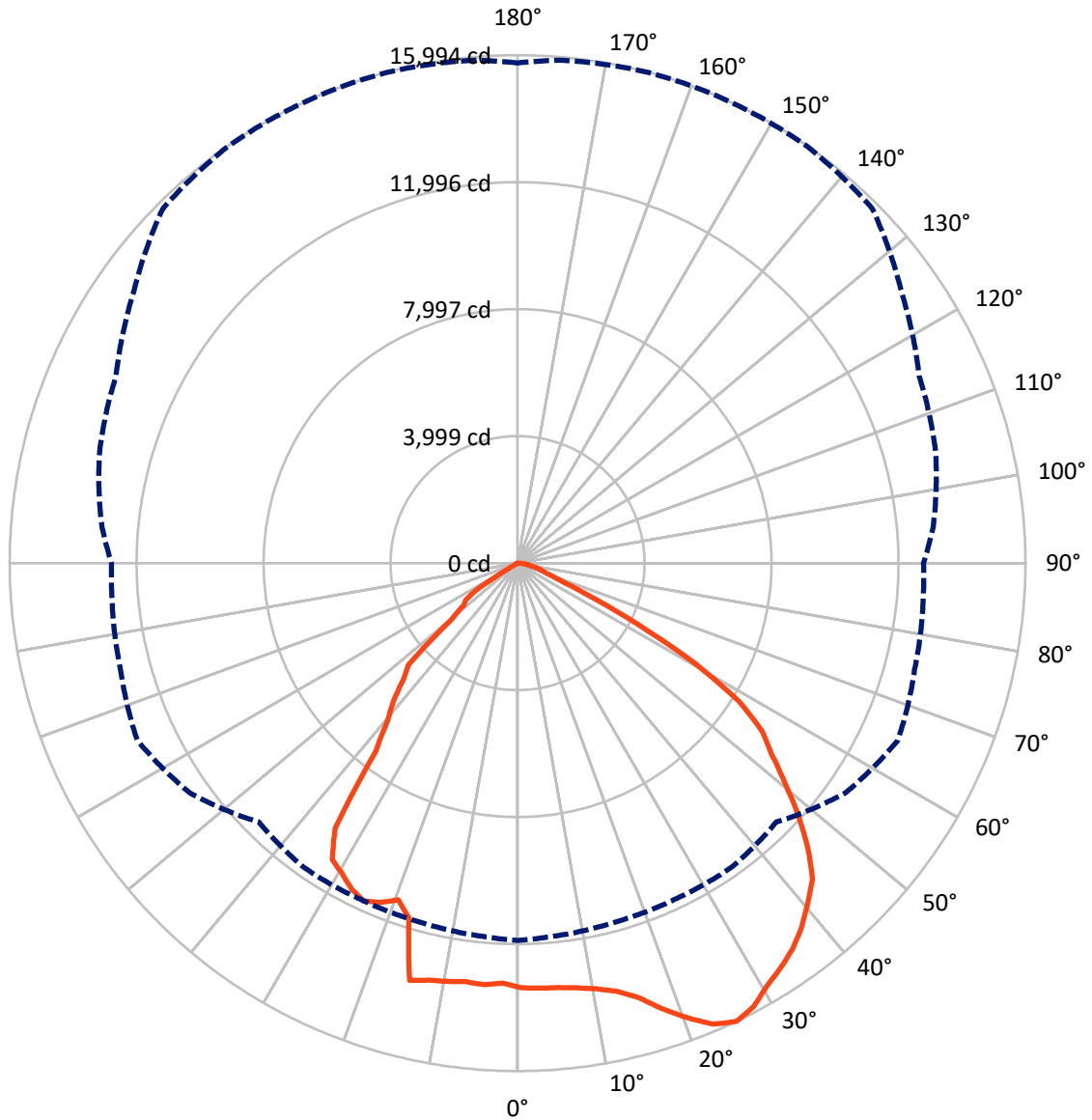
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 33.4 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	19185.0	0.0	19185.0
	% Fixture	61.9	0.0	61.9
Street Side	Lumens	11803.4	0.0	11803.4
	% Fixture	38.1	0.0	38.1
Total	Lumens	30988.4	0.0	30988.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1282.8	4.1
10°-20°	3916.9	12.6
20°-30°	6192.3	20.0
30°-40°	6994.8	22.6
40°-50°	6550.8	21.1
50°-60°	4516.3	14.6
60°-70°	1213.4	3.9
70°-80°	252.9	0.8
80°-90°	68.4	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°	30988.4	100.0
0°-180°	30988.4	100.0



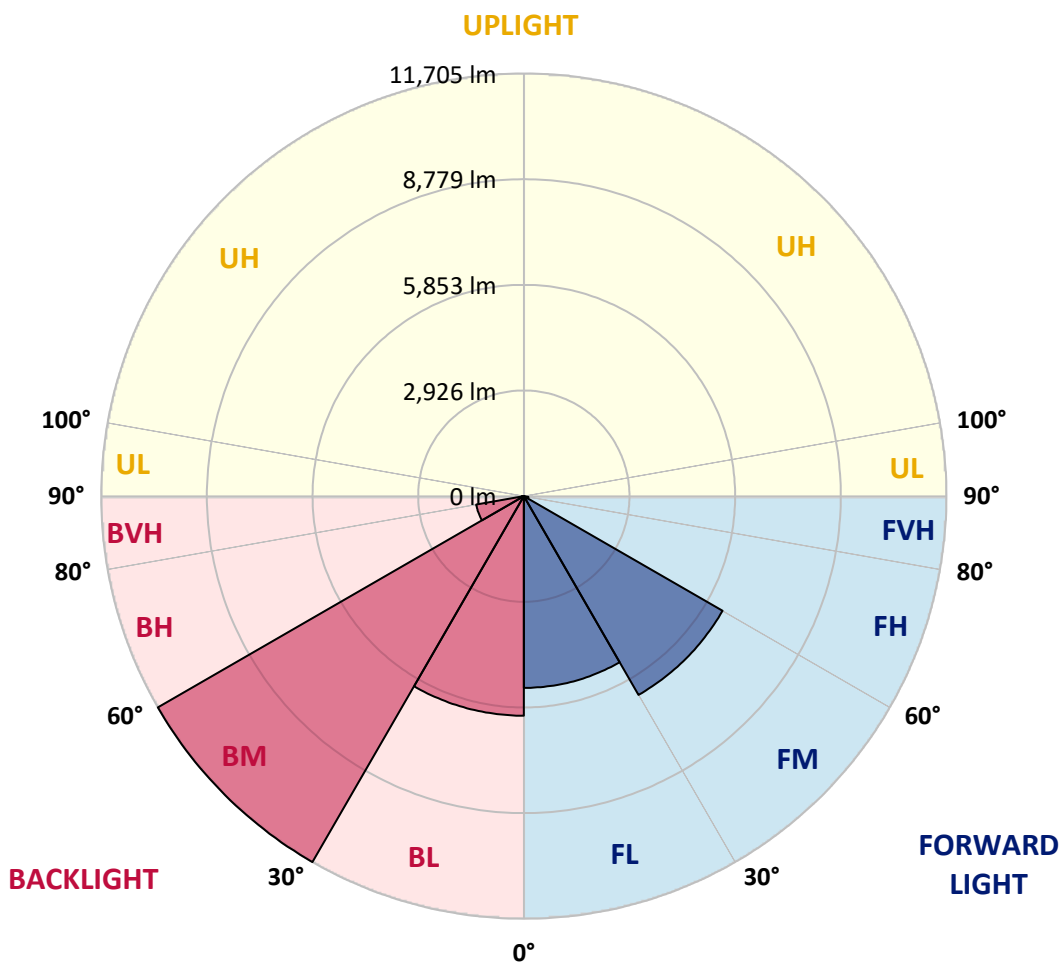
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5310.4	17.1			
FM (30°-60°)	6356.4	20.5			
FH (60°-80°)	127.4	0.4			G0/660
FVH (80°-90°)	9.2	0.0			G0/10
BL (0°-30°)	6081.5	19.6	B5		
BM (30°-60°)	11705.4	37.8	B5		
BH (60°-80°)	1338.9	4.3	B3/2500		G3/2500
BVH (80°-90°)	59.2	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	13371.0	13371.0	13371.0	13371.0	13371.0	13371.0	13371.0	13371.0	13371.0	13371.0
2.5°	13430.2	13343.6	13261.7	13234.3	13348.2	13471.2	13393.7	13398.3	13371.0	13421.1
5°	13530.4	13411.9	13357.3	13316.3	13334.5	13462.0	13352.7	13393.7	13348.2	13407.4
7.5°	13493.9	13411.9	13357.3	13279.9	13339.1	13489.4	13384.6	13389.2	13366.4	13421.1
10°	13471.2	13411.9	13343.6	13352.7	13421.1	13548.6	13466.6	13512.1	13480.3	13512.1
12.5°	13525.8	13462.0	13425.6	13425.6	13484.8	13630.5	13589.6	13630.5	13616.9	13644.2
15°	13011.2	13070.4	13416.5	13571.3	13689.8	13835.5	13817.3	13858.3	13867.4	13908.4
17.5°	10975.5	10916.3	10889.0	11685.9	13803.6	14254.5	14240.8	14236.2	14190.7	14158.8
20°	11244.2	11221.4	11189.5	11248.7	11485.5	14473.1	14564.1	14004.0	13840.0	13826.4
22.5°	11672.3	11635.8	11517.4	11522.0	11594.8	12583.1	14113.3	13603.2	13548.6	13516.7
25°	11881.8	11808.9	11713.3	11685.9	11708.7	11526.5	12605.9	13211.6	12942.9	12819.9
27.5°	11512.9	11517.4	11440.0	11512.9	11426.3	10606.6	10146.6	12446.5	12437.4	12382.7
30°	11235.1	11221.4	11130.3	11221.4	10624.8	9709.4	9513.6	11608.5	11512.9	11440.0
32.5°	10383.4	10392.6	10656.7	11011.9	10032.8	9308.7	8716.6	10369.8	11276.1	11235.1
35°	7427.8	7446.0	8384.2	10137.5	9135.6	8511.7	8466.2	8962.6	10902.6	10920.8
37.5°	7150.0	7150.0	7127.2	7414.1	8429.7	8188.3	8279.4	8229.3	9987.2	10032.8
40°	6949.6	6908.6	6876.8	6425.9	5861.2	7960.6	8024.4	7796.7	9440.7	9449.8
42.5°	6708.3	6662.7	6671.8	5838.4	5246.4	7395.9	7218.3	6913.2	8529.9	8539.0
45°	6266.5	6343.9	6398.6	5109.7	5064.2	5282.8	6658.2	6466.9	7915.1	8083.6
47.5°	3187.9	3256.2	4995.9	4699.9	4804.6	4695.3	5624.4	5628.9	6585.3	7145.4
50°	2891.9	2873.7	2878.2	2741.6	4435.7	3798.2	4066.8	5159.8	5273.7	6075.2
52.5°	2696.1	2691.5	2413.7	2145.0	2787.1	3342.7	2951.1	3734.4	3921.1	5146.2
55°	1994.7	2140.4	1903.6	2017.5	1744.2	2677.8	2664.2	3370.1	3433.8	4126.1
57.5°	18.2	22.8	54.6	1534.7	1206.8	1338.9	1839.9	2299.8	2413.7	3215.2
60°	4.6	9.1	22.8	45.5	783.3	824.3	1229.6	1329.8	1498.3	1917.3
62.5°	0.0	0.0	9.1	22.8	41.0	337.0	391.7	428.1	660.4	979.1
65°	0.0	0.0	4.6	13.7	22.8	54.6	95.6	200.4	286.9	355.2
67.5°	0.0	0.0	4.6	9.1	18.2	27.3	54.6	77.4	123.0	209.5
70°	0.0	0.0	4.6	9.1	13.7	22.8	36.4	54.6	72.9	104.7
72.5°	0.0	0.0	4.6	9.1	9.1	27.3	27.3	41.0	54.6	68.3
75°	0.0	0.0	4.6	4.6	9.1	18.2	27.3	31.9	36.4	54.6
77.5°	0.0	0.0	4.6	9.1	13.7	18.2	22.8	36.4	31.9	31.9
80°	0.0	0.0	4.6	13.7	13.7	22.8	27.3	36.4	22.8	22.8
82.5°	0.0	0.0	4.6	18.2	13.7	45.5	45.5	50.1	18.2	18.2
85°	0.0	0.0	13.7	9.1	27.3	45.5	41.0	27.3	22.8	13.7
87.5°	0.0	0.0	4.6	4.6	9.1	13.7	31.9	27.3	9.1	9.1
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°
13371.0	0°	13371.0	13371.0	13371.0	13371.0	13371.0	13371.0	13371.0	13371.0	13371.0
13289.0	2.5°	13471.2	13411.9	13534.9	13521.2	13462.0	13434.7	13402.8	13375.5	13175.1
13298.1	5°	13475.7	13384.6	13534.9	13507.6	13498.5	13452.9	13425.6	13466.6	13284.4
13334.5	7.5°	13475.7	13384.6	13548.6	13557.7	13544.0	13507.6	13503.0	13530.4	13380.1
13398.3	10°	13566.8	13530.4	13667.0	13680.6	13662.4	13653.3	13630.5	13612.3	13452.9
13616.9	12.5°	13758.1	13685.2	13840.0	13881.0	13867.4	13890.1	13835.5	13862.8	13698.9
13840.0	15°	13990.3	13994.9	14113.3	14204.4	14195.3	14268.1	14186.2	14259.0	14140.6
14095.1	17.5°	14345.5	14395.6	14564.1	14700.8	14750.9	14805.5	14750.9	14773.6	14605.1
13812.7	20°	13972.1	14158.8	14969.5	15219.9	15324.7	15374.8	15283.7	15311.0	15142.5
13466.6	22.5°	13635.1	13876.5	14596.0	15379.3	15702.7	15802.9	15771.0	15766.4	15702.7
12783.5	25°	13138.7	13626.0	13949.3	14778.2	15793.8	15975.9	15994.1	15989.6	15894.0
12364.5	27.5°	12528.4	12637.7	13475.7	13981.2	15156.2	15848.4	15821.1	15689.0	15561.5
11494.7	30°	11749.7	12246.1	12624.1	13430.2	14331.9	15456.8	15456.8	15356.6	15224.5
11185.0	32.5°	11353.5	11995.6	12346.3	12637.7	13407.4	15019.6	15201.7	15097.0	14992.2
10943.6	35°	11144.0	11239.6	12059.4	12323.5	12974.8	14177.0	14914.8	14810.1	14732.7
10301.5	37.5°	10684.0	10907.2	11289.7	11995.6	12196.0	13489.4	14532.3	14477.6	14386.5
9468.1	40°	9659.3	10255.9	10843.4	11512.9	11722.4	12605.9	14067.7	14090.5	13967.6
8580.0	42.5°	9053.6	9459.0	10378.9	10829.8	11394.5	12036.6	13616.9	13653.3	13566.8
8129.1	45°	8343.2	8794.0	9440.7	10260.5	11030.1	11253.3	12819.9	13202.5	13129.6
7232.0	47.5°	7691.9	8056.3	8848.7	9677.6	10529.2	10497.3	11904.5	12624.1	12523.9
6544.3	50°	6767.5	7405.0	7778.5	8539.0	9809.6	9896.2	10929.9	11945.5	11863.5
5560.6	52.5°	5706.3	6507.9	7222.9	7919.7	9081.0	9285.9	10023.7	11253.3	11198.6
4249.0	55°	4986.8	5569.7	6375.8	6936.0	8197.5	8744.0	9345.1	10592.9	10565.6
3493.0	57.5°	3547.7	4672.6	5337.5	6120.8	6785.7	7773.9	8220.2	9249.5	8994.4
1935.5	60°	2404.6	2932.9	3743.5	4586.0	5032.3	6020.6	6435.0	7259.3	7191.0
1156.8	62.5°	1270.6	1757.9	2336.3	2759.8	3083.2	4044.1	4217.1	5105.2	5082.4
464.5	65°	560.2	742.3	1266.1	1484.7	1817.1	2263.4	2413.7	2732.5	2655.1
227.7	67.5°	291.5	441.8	715.0	878.9	1106.7	1275.2	1398.1	1498.3	1562.1
150.3	70°	177.6	323.3	441.8	610.3	760.5	897.2	992.8	1129.4	1211.4
77.4	72.5°	132.1	204.9	305.1	469.1	551.1	710.4	806.1	906.3	979.1
63.8	75°	72.9	136.6	245.9	368.9	441.8	578.4	664.9	733.2	756.0
36.4	77.5°	45.5	104.7	204.9	286.9	346.1	469.1	446.3	510.1	564.7
27.3	80°	31.9	77.4	159.4	236.8	241.4	300.6	355.2	409.9	446.3
18.2	82.5°	22.8	63.8	118.4	182.2	159.4	232.3	277.8	318.8	232.3
13.7	85°	18.2	45.5	59.2	109.3	91.1	163.9	141.2	136.6	91.1
9.1	87.5°	13.7	22.8	41.0	50.1	36.4	36.4	45.5	54.6	45.5
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
13371.0
13038.5
13129.6
13207.0
13320.9
13553.1
13944.8
14459.4
15024.1
15497.7
15748.2
15461.3
15174.4
14905.7
14623.4
14295.5
13940.2
13557.7
13138.7
12596.8
11877.2
11235.1
10597.5
8967.1
7195.5
5087.0
2623.2
1562.1
1216.0
992.8
742.3
573.8
450.9
168.5
91.1
45.5
0.0

(END OF REPORT)