

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: P638543

Luminaire Tested: **IFLD-S-SA3D-830-U-LAM-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638543
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3D-830-U-LAM-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens and Visor
Light Source: (48) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13649.7 lumens
Efficiency: N/A
Efficacy: 74.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G2

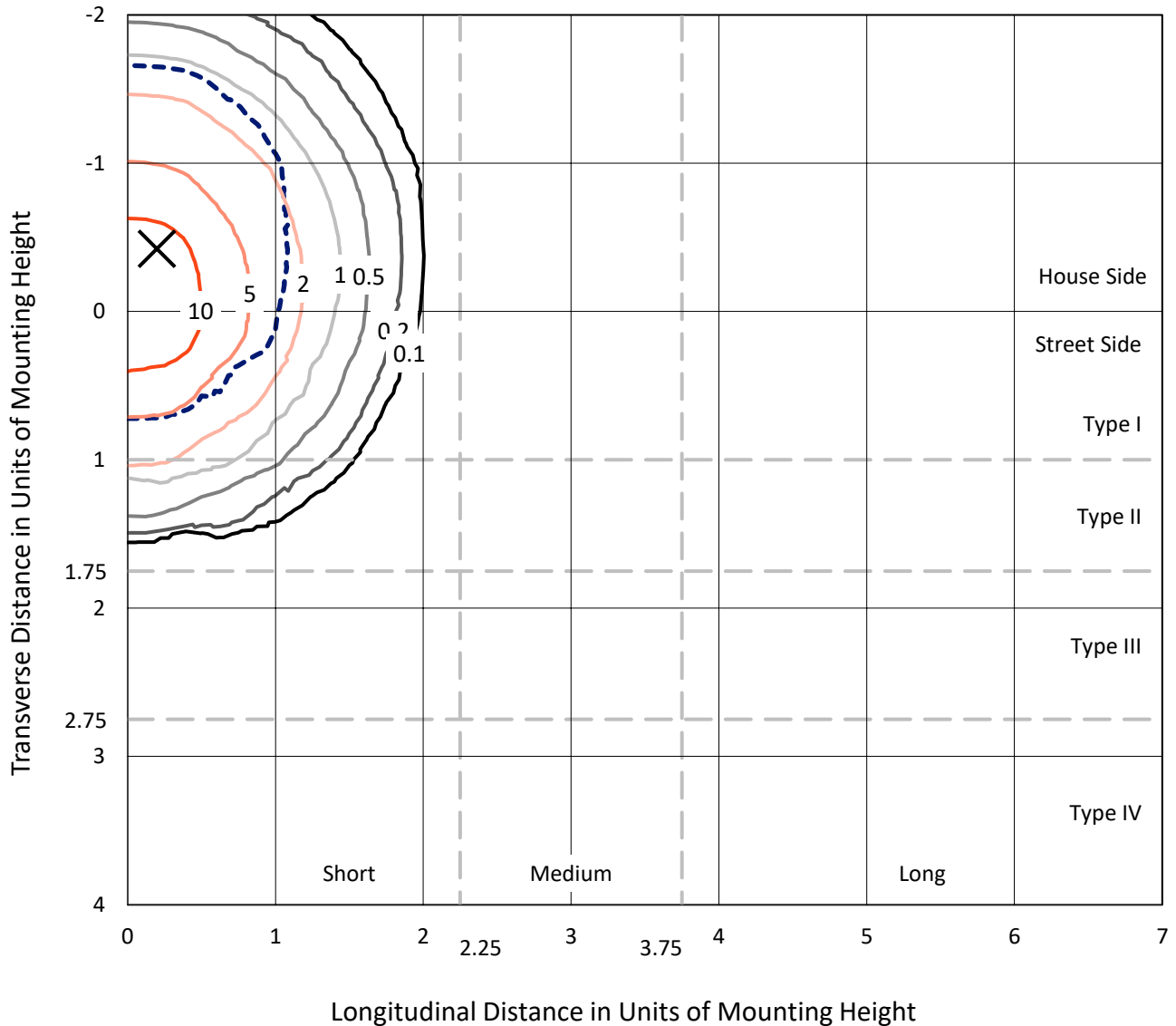
Input Watts (W): 184.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

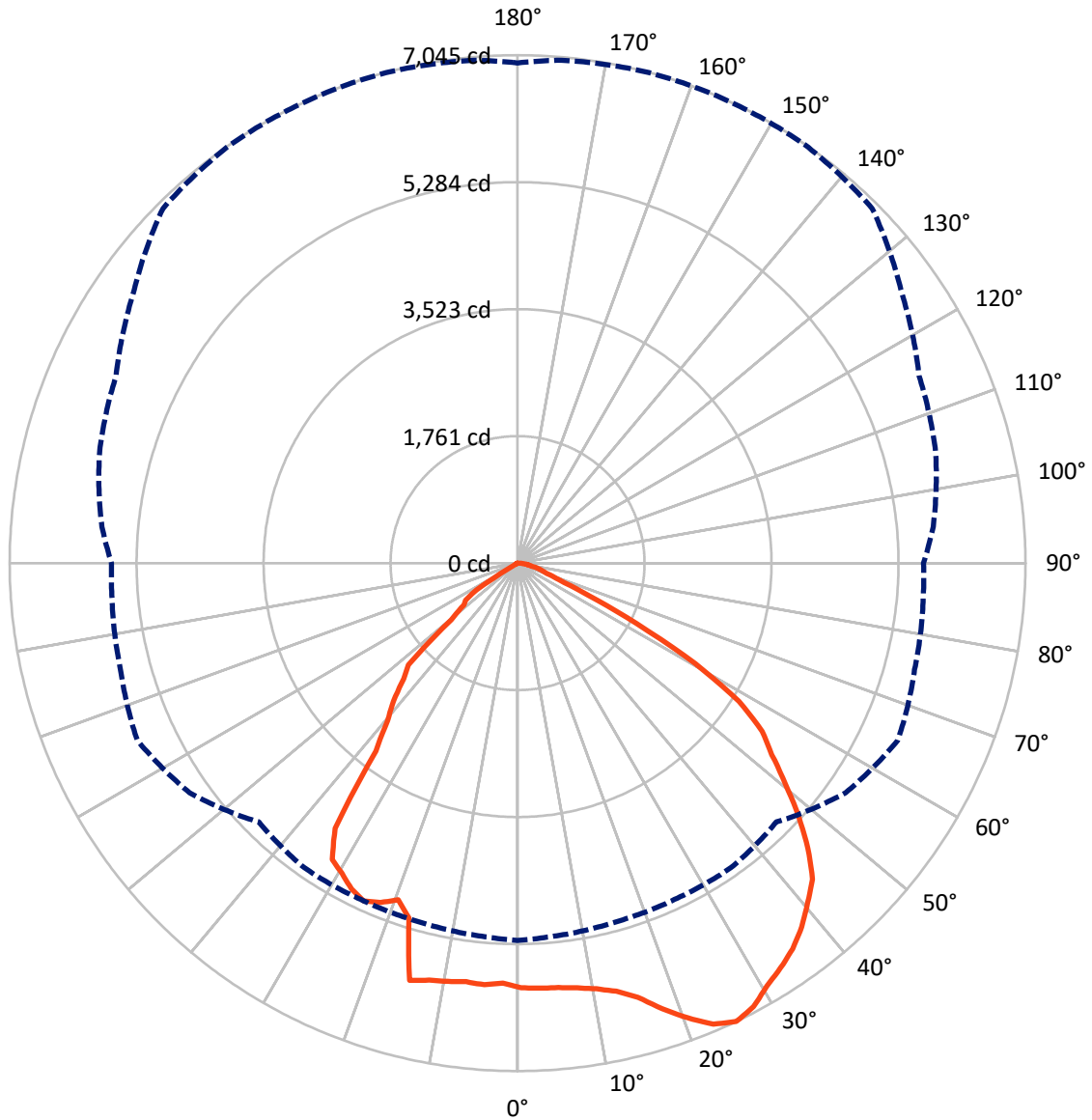
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 14.7 fc
 Type I - Short - N/A

REPORT NUMBER: P638543
CATALOG NUMBER: IFLD-S-SA3D-830-U-LAM-VI

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	8450.6	0.0	8450.6
	% Fixture	61.9	0.0	61.9
Street Side	Lumens	5199.1	0.0	5199.1
	% Fixture	38.1	0.0	38.1
Total	Lumens	13649.7	0.0	13649.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	565.0	4.1
10°-20°	1725.3	12.6
20°-30°	2727.6	20.0
30°-40°	3081.1	22.6
40°-50°	2885.5	21.1
50°-60°	1989.3	14.6
60°-70°	534.5	3.9
70°-80°	111.4	0.8
80°-90°	30.1	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°	13649.7	100.0
0°-180°	13649.7	100.0

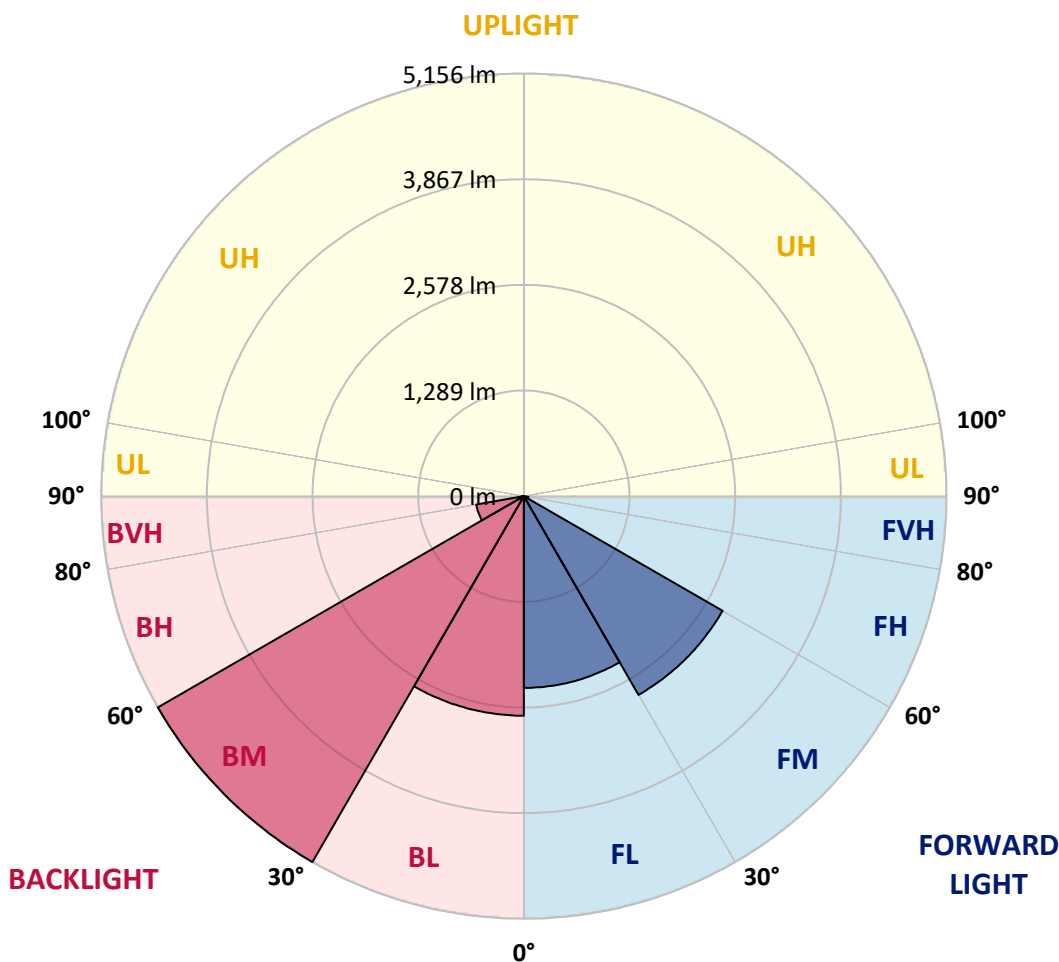


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2339.1	17.1			
FM (30°-60°)	2799.9	20.5			
FH (60°-80°)	56.1	0.4			G0/660
FVH (80°-90°)	4.0	0.0			G0/10
BL (0°-30°)	2678.8	19.6	B4/5000		
BM (30°-60°)	5156.0	37.8	B4/8500		
BH (60°-80°)	589.7	4.3	B2/1000		G2/1000
BVH (80°-90°)	26.1	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2
 Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	5889.6	5889.6	5889.6	5889.6	5889.6	5889.6	5889.6	5889.6	5889.6	5889.6
2.5°	5915.7	5877.6	5841.5	5829.4	5879.6	5933.7	5899.6	5901.7	5889.6	5911.7
5°	5959.8	5907.7	5883.6	5865.5	5873.6	5929.7	5881.6	5899.6	5879.6	5905.7
7.5°	5943.8	5907.7	5883.6	5849.5	5875.6	5941.8	5895.6	5897.6	5887.6	5911.7
10°	5933.7	5907.7	5877.6	5881.6	5911.7	5967.9	5931.7	5951.8	5937.8	5951.8
12.5°	5957.8	5929.7	5913.7	5913.7	5939.8	6004.0	5985.9	6004.0	5997.9	6010.0
15°	5731.1	5757.2	5909.7	5977.9	6030.0	6094.2	6086.2	6104.3	6108.3	6126.3
17.5°	4834.5	4808.4	4796.3	5147.4	6080.2	6278.8	6272.8	6270.8	6250.7	6236.7
20°	4952.8	4942.8	4928.7	4954.8	5059.1	6375.1	6415.2	6168.5	6096.2	6090.2
22.5°	5141.4	5125.3	5073.2	5075.2	5107.3	5542.6	6216.6	5991.9	5967.9	5953.8
25°	5233.7	5201.6	5159.4	5147.4	5157.4	5077.2	5552.6	5819.4	5701.1	5646.9
27.5°	5071.2	5073.2	5039.1	5071.2	5033.1	4672.0	4469.4	5482.4	5478.4	5454.3
30°	4948.8	4942.8	4902.7	4942.8	4680.0	4276.8	4190.5	5113.3	5071.2	5039.1
32.5°	4573.7	4577.7	4694.0	4850.5	4419.2	4100.3	3839.5	4567.7	4966.9	4948.8
35°	3271.8	3279.8	3693.0	4465.4	4024.0	3749.2	3729.2	3947.8	4802.4	4810.4
37.5°	3149.4	3149.4	3139.4	3265.8	3713.1	3606.8	3646.9	3624.8	4399.2	4419.2
40°	3061.2	3043.1	3029.1	2830.5	2581.7	3506.5	3534.6	3434.3	4158.4	4162.5
42.5°	2954.8	2934.8	2938.8	2571.7	2310.9	3257.7	3179.5	3045.1	3757.2	3761.3
45°	2760.3	2794.4	2818.4	2250.7	2230.7	2327.0	2932.8	2848.5	3486.4	3560.7
47.5°	1404.2	1434.3	2200.6	2070.2	2116.3	2068.2	2477.4	2479.4	2900.7	3147.4
50°	1273.8	1265.8	1267.8	1207.6	1953.8	1673.0	1791.4	2272.8	2322.9	2676.0
52.5°	1187.6	1185.5	1063.2	944.8	1227.7	1472.4	1299.9	1644.9	1727.2	2266.8
55°	878.6	942.8	838.5	888.7	768.3	1179.5	1173.5	1484.4	1512.5	1817.4
57.5°	8.0	10.0	24.1	676.0	531.6	589.8	810.4	1013.0	1063.2	1416.2
60°	2.0	4.0	10.0	20.1	345.0	363.1	541.6	585.8	660.0	844.5
62.5°	0.0	0.0	4.0	10.0	18.1	148.4	172.5	188.6	290.9	431.3
65°	0.0	0.0	2.0	6.0	10.0	24.1	42.1	88.3	126.4	156.5
67.5°	0.0	0.0	2.0	4.0	8.0	12.0	24.1	34.1	54.2	92.3
70°	0.0	0.0	2.0	4.0	6.0	10.0	16.0	24.1	32.1	46.1
72.5°	0.0	0.0	2.0	4.0	4.0	12.0	12.0	18.1	24.1	30.1
75°	0.0	0.0	2.0	2.0	4.0	8.0	12.0	14.0	16.0	24.1
77.5°	0.0	0.0	2.0	4.0	6.0	8.0	10.0	16.0	14.0	14.0
80°	0.0	0.0	2.0	6.0	6.0	10.0	12.0	16.0	10.0	10.0
82.5°	0.0	0.0	2.0	8.0	6.0	20.1	20.1	22.1	8.0	8.0
85°	0.0	0.0	6.0	4.0	12.0	20.1	18.1	12.0	10.0	6.0
87.5°	0.0	0.0	2.0	2.0	4.0	6.0	14.0	12.0	4.0	4.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P638543

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CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
5889.6	0°	5889.6	5889.6	5889.6	5889.6	5889.6	5889.6	5889.6	5889.6	5889.6
5853.5	2.5°	5933.7	5907.7	5961.8	5955.8	5929.7	5917.7	5903.7	5891.6	5803.4
5857.5	5°	5935.8	5895.6	5961.8	5949.8	5945.8	5925.7	5913.7	5931.7	5851.5
5873.6	7.5°	5935.8	5895.6	5967.9	5971.9	5965.8	5949.8	5947.8	5959.8	5893.6
5901.7	10°	5975.9	5959.8	6020.0	6026.0	6018.0	6014.0	6004.0	5995.9	5925.7
5997.9	12.5°	6060.1	6028.0	6096.2	6114.3	6108.3	6118.3	6094.2	6106.3	6034.0
6096.2	15°	6162.4	6164.4	6216.6	6256.7	6252.7	6284.8	6248.7	6280.8	6228.6
6208.6	17.5°	6318.9	6341.0	6415.2	6475.4	6497.4	6521.5	6497.4	6507.5	6433.2
6084.2	20°	6154.4	6236.7	6593.7	6704.1	6750.2	6772.3	6732.1	6744.2	6670.0
5931.7	22.5°	6006.0	6112.3	6429.2	6774.3	6916.7	6960.8	6946.8	6944.8	6916.7
5630.8	25°	5787.3	6002.0	6144.4	6509.5	6956.8	7037.0	7045.1	7043.1	7000.9
5446.3	27.5°	5518.5	5566.7	5935.8	6158.4	6676.0	6980.9	6968.8	6910.7	6854.5
5063.1	30°	5175.5	5394.1	5560.6	5915.7	6312.9	6808.4	6808.4	6764.2	6706.1
4926.7	32.5°	5001.0	5283.8	5438.3	5566.7	5905.7	6615.8	6696.0	6649.9	6603.8
4820.4	35°	4908.7	4950.8	5311.9	5428.2	5715.1	6244.7	6569.7	6523.5	6489.4
4537.6	37.5°	4706.1	4804.4	4972.9	5283.8	5372.1	5941.8	6401.1	6377.1	6337.0
4170.5	40°	4254.7	4517.5	4776.3	5071.2	5163.4	5552.6	6196.5	6206.6	6152.4
3779.3	42.5°	3987.9	4166.5	4571.7	4770.3	5019.0	5301.9	5997.9	6014.0	5975.9
3580.7	45°	3675.0	3873.6	4158.4	4519.5	4858.5	4956.8	5646.9	5815.4	5783.3
3185.5	47.5°	3388.1	3548.6	3897.7	4262.8	4637.9	4623.8	5243.7	5560.6	5516.5
2882.6	50°	2980.9	3261.8	3426.2	3761.3	4320.9	4359.0	4814.4	5261.7	5225.6
2449.3	52.5°	2513.5	2866.6	3181.5	3488.4	4000.0	4090.2	4415.2	4956.8	4932.8
1871.6	55°	2196.6	2453.3	2808.4	3055.1	3610.8	3851.5	4116.3	4666.0	4653.9
1538.6	57.5°	1562.7	2058.2	2351.0	2696.1	2988.9	3424.2	3620.8	4074.2	3961.9
852.6	60°	1059.2	1291.9	1648.9	2020.0	2216.6	2651.9	2834.5	3197.6	3167.5
509.5	62.5°	559.7	774.3	1029.1	1215.6	1358.1	1781.3	1857.6	2248.7	2238.7
204.6	65°	246.7	327.0	557.7	654.0	800.4	997.0	1063.2	1203.6	1169.5
100.3	67.5°	128.4	194.6	314.9	387.2	487.5	561.7	615.8	660.0	688.1
66.2	70°	78.2	142.4	194.6	268.8	335.0	395.2	437.3	497.5	533.6
34.1	72.5°	58.2	90.3	134.4	206.6	242.7	312.9	355.1	399.2	431.3
28.1	75°	32.1	60.2	108.3	162.5	194.6	254.8	292.9	323.0	333.0
16.0	77.5°	20.1	46.1	90.3	126.4	152.5	206.6	196.6	224.7	248.7
12.0	80°	14.0	34.1	70.2	104.3	106.3	132.4	156.5	180.5	196.6
8.0	82.5°	10.0	28.1	52.2	80.2	70.2	102.3	122.4	140.4	102.3
6.0	85°	8.0	20.1	26.1	48.1	40.1	72.2	62.2	60.2	40.1
4.0	87.5°	6.0	10.0	18.1	22.1	16.0	16.0	20.1	24.1	20.1
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
5889.6
5743.2
5783.3
5817.4
5867.6
5969.9
6142.4
6369.1
6617.8
6826.4
6936.7
6810.4
6684.0
6565.6
6441.3
6296.8
6140.4
5971.9
5787.3
5548.6
5231.6
4948.8
4668.0
3949.8
3169.5
2240.7
1155.5
688.1
535.6
437.3
327.0
252.8
198.6
74.2
40.1
20.1
0.0

(END OF REPORT)