

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: P638542

Luminaire Tested: **IFLD-S-SA3C-830-U-LAM-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638542
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3C-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: 12405.2 lumens
Efficiency: N/A
Efficacy: 77.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G2

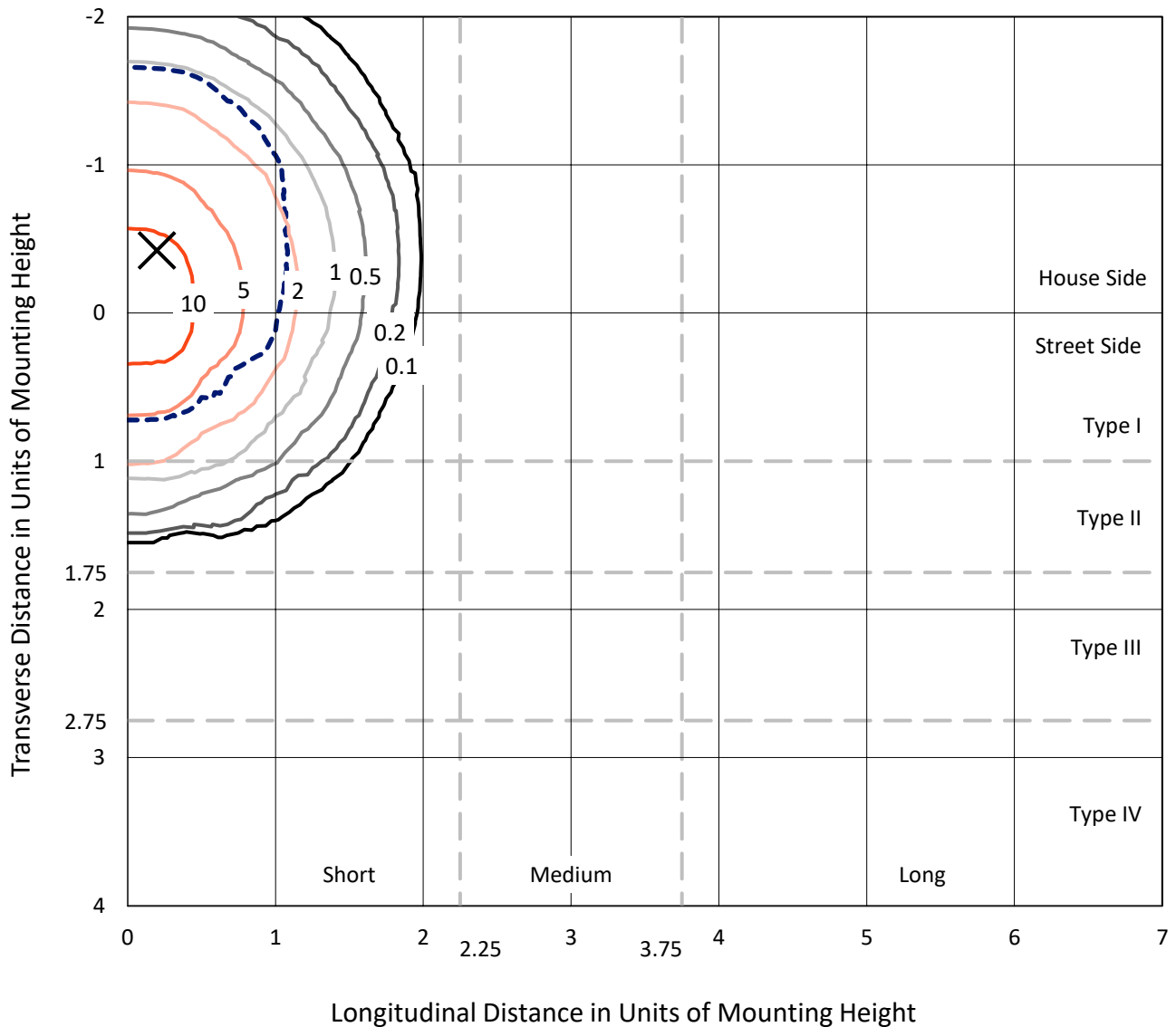
Input Watts (W): 160.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

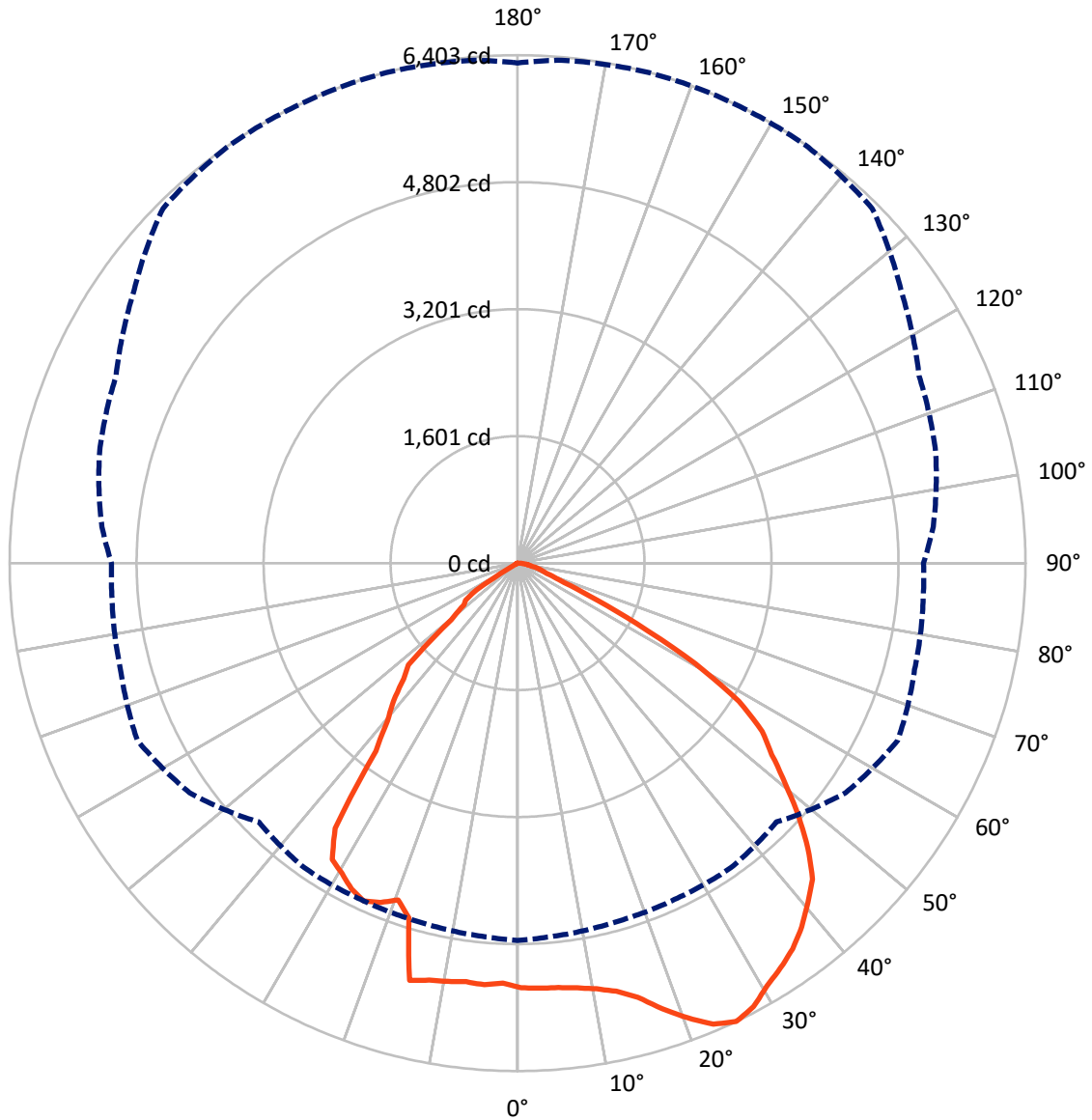
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 13.4 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	7680.1	0.0	7680.1
	% Fixture	61.9	0.0	61.9
Street Side	Lumens	4725.1	0.0	4725.1
	% Fixture	38.1	0.0	38.1
Total	Lumens	12405.2	0.0	12405.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	513.5	4.1
10°-20°	1568.0	12.6
20°-30°	2478.9	20.0
30°-40°	2800.1	22.6
40°-50°	2622.4	21.1
50°-60°	1807.9	14.6
60°-70°	485.7	3.9
70°-80°	101.2	0.8
80°-90°	27.4	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°	12405.2	100.0
0°-180°	12405.2	100.0



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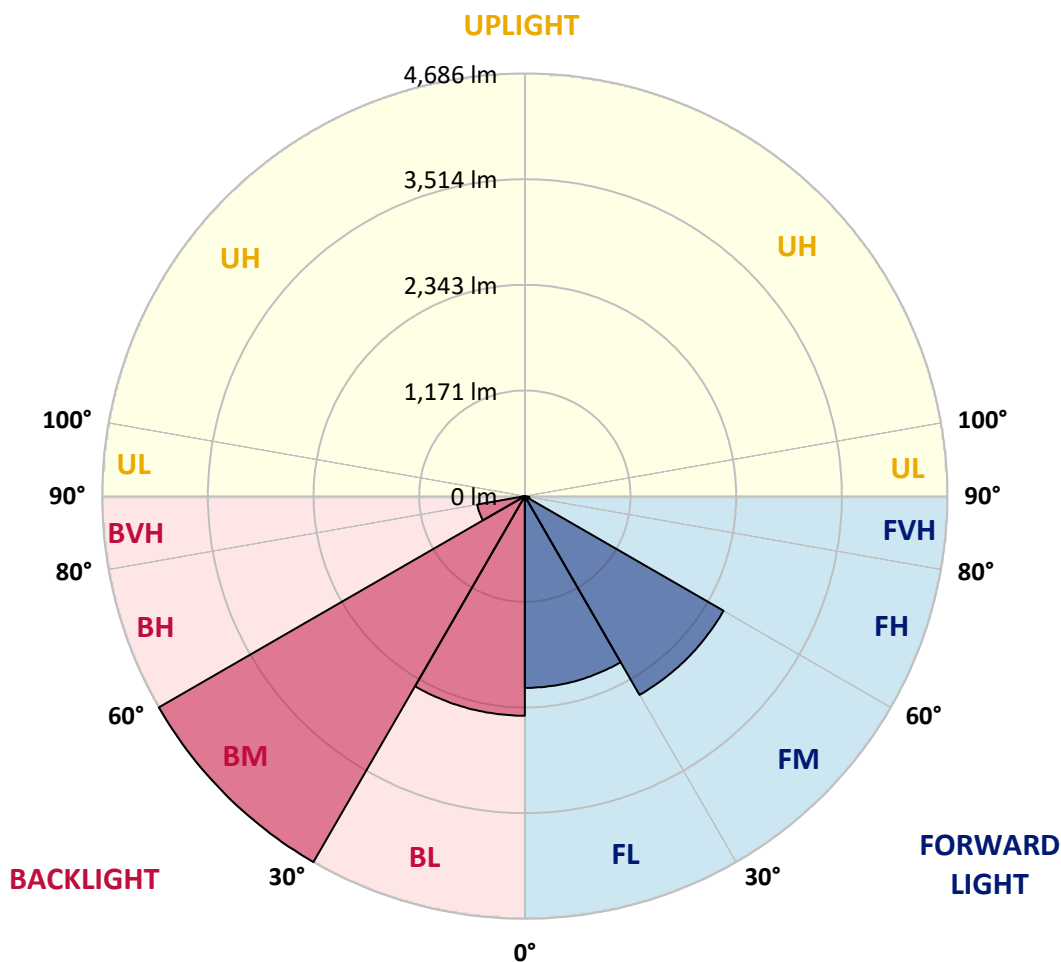
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2125.9	17.1			
FM (30°-60°)	2544.6	20.5			
FH (60°-80°)	51.0	0.4			G0/660
FVH (80°-90°)	3.7	0.0			G0/10
BL (0°-30°)	2434.5	19.6	B3/2500		
BM (30°-60°)	4685.9	37.8	B3/5000		
BH (60°-80°)	536.0	4.3	B2/1000		G2/1000
BVH (80°-90°)	23.7	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-G2

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	5352.6	5352.6	5352.6	5352.6	5352.6	5352.6	5352.6	5352.6	5352.6	5352.6
2.5°	5376.3	5341.7	5308.9	5297.9	5343.5	5392.7	5361.7	5363.6	5352.6	5372.7
5°	5416.4	5369.0	5347.2	5330.8	5338.0	5389.1	5345.3	5361.7	5343.5	5367.2
7.5°	5401.9	5369.0	5347.2	5316.2	5339.9	5400.0	5358.1	5359.9	5350.8	5372.7
10°	5392.7	5369.0	5341.7	5345.3	5372.7	5423.7	5390.9	5409.1	5396.4	5409.1
12.5°	5414.6	5389.1	5374.5	5374.5	5398.2	5456.5	5440.1	5456.5	5451.1	5462.0
15°	5208.6	5232.3	5370.9	5432.8	5480.2	5538.6	5531.3	5547.7	5551.3	5567.8
17.5°	4393.7	4370.0	4359.0	4678.1	5525.8	5706.3	5700.8	5699.0	5680.8	5668.0
20°	4501.2	4492.1	4479.4	4503.1	4597.9	5793.8	5830.3	5606.0	5540.4	5534.9
22.5°	4672.6	4658.0	4610.6	4612.4	4641.6	5037.2	5649.8	5445.6	5423.7	5411.0
25°	4756.5	4727.3	4689.0	4678.1	4687.2	4614.3	5046.3	5288.8	5181.3	5132.0
27.5°	4608.8	4610.6	4579.6	4608.8	4574.2	4246.0	4061.9	4982.5	4978.9	4957.0
30°	4497.6	4492.1	4455.7	4492.1	4253.3	3886.9	3808.5	4647.1	4608.8	4579.6
32.5°	4156.7	4160.3	4266.1	4408.3	4016.3	3726.4	3489.4	4151.2	4514.0	4497.6
35°	2973.5	2980.8	3356.3	4058.2	3657.1	3407.4	3389.1	3587.9	4364.5	4371.8
37.5°	2862.3	2862.3	2853.2	2968.0	3374.6	3277.9	3314.4	3294.3	3998.1	4016.3
40°	2782.1	2765.6	2752.9	2572.4	2346.3	3186.8	3212.3	3121.2	3779.3	3782.9
42.5°	2685.4	2667.2	2670.8	2337.2	2100.2	2960.7	2889.6	2767.5	3414.7	3418.3
45°	2508.6	2539.6	2561.5	2045.5	2027.3	2114.8	2665.4	2588.8	3168.6	3236.0
47.5°	1276.2	1303.5	1999.9	1881.4	1923.4	1879.6	2251.5	2253.4	2636.2	2860.4
50°	1157.7	1150.4	1152.2	1097.5	1775.7	1520.5	1628.0	2065.6	2111.2	2432.0
52.5°	1079.3	1077.5	966.2	858.7	1115.7	1338.2	1181.4	1494.9	1569.7	2060.1
55°	798.5	856.9	762.1	807.6	698.2	1072.0	1066.5	1349.1	1374.6	1651.7
57.5°	7.3	9.1	21.9	614.4	483.1	536.0	736.5	920.7	966.2	1287.1
60°	1.8	3.6	9.1	18.2	313.6	330.0	492.2	532.3	599.8	767.5
62.5°	0.0	0.0	3.6	9.1	16.4	134.9	156.8	171.4	264.3	392.0
65°	0.0	0.0	1.8	5.5	9.1	21.9	38.3	80.2	114.9	142.2
67.5°	0.0	0.0	1.8	3.6	7.3	10.9	21.9	31.0	49.2	83.9
70°	0.0	0.0	1.8	3.6	5.5	9.1	14.6	21.9	29.2	41.9
72.5°	0.0	0.0	1.8	3.6	3.6	10.9	10.9	16.4	21.9	27.3
75°	0.0	0.0	1.8	1.8	3.6	7.3	10.9	12.8	14.6	21.9
77.5°	0.0	0.0	1.8	3.6	5.5	7.3	9.1	14.6	12.8	12.8
80°	0.0	0.0	1.8	5.5	5.5	9.1	10.9	14.6	9.1	9.1
82.5°	0.0	0.0	1.8	7.3	5.5	18.2	18.2	20.1	7.3	7.3
85°	0.0	0.0	5.5	3.6	10.9	18.2	16.4	10.9	9.1	5.5
87.5°	0.0	0.0	1.8	1.8	3.6	5.5	12.8	10.9	3.6	3.6
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°
5352.6	0°	5352.6	5352.6	5352.6	5352.6	5352.6	5352.6	5352.6	5352.6	5352.6
5319.8	2.5°	5392.7	5369.0	5418.3	5412.8	5389.1	5378.2	5365.4	5354.5	5274.2
5323.5	5°	5394.6	5358.1	5418.3	5407.3	5403.7	5385.4	5374.5	5390.9	5318.0
5338.0	7.5°	5394.6	5358.1	5423.7	5427.4	5421.9	5407.3	5405.5	5416.4	5356.3
5363.6	10°	5431.0	5416.4	5471.1	5476.6	5469.3	5465.7	5456.5	5449.3	5385.4
5451.1	12.5°	5507.6	5478.4	5540.4	5556.8	5551.3	5560.5	5538.6	5549.5	5483.9
5540.4	15°	5600.6	5602.4	5649.8	5686.3	5682.6	5711.8	5679.0	5708.1	5660.7
5642.5	17.5°	5742.8	5762.8	5830.3	5885.0	5905.0	5926.9	5905.0	5914.1	5846.7
5529.5	20°	5593.3	5668.0	5992.5	6092.8	6134.7	6154.8	6118.3	6129.3	6061.8
5390.9	22.5°	5458.4	5555.0	5843.0	6156.6	6286.1	6326.2	6313.4	6311.6	6286.1
5117.4	25°	5259.6	5454.7	5584.2	5916.0	6322.5	6395.4	6402.7	6400.9	6362.6
4949.7	27.5°	5015.4	5059.1	5394.6	5596.9	6067.3	6344.4	6333.5	6280.6	6229.5
4601.5	30°	4703.6	4902.3	5053.6	5376.3	5737.3	6187.6	6187.6	6147.5	6094.6
4477.5	32.5°	4545.0	4802.1	4942.4	5059.1	5367.2	6012.6	6085.5	6043.6	6001.7
4380.9	35°	4461.1	4499.4	4827.6	4933.3	5194.0	5675.3	5970.7	5928.7	5897.7
4123.9	37.5°	4277.0	4366.3	4519.5	4802.1	4882.3	5400.0	5817.5	5795.6	5759.2
3790.2	40°	3866.8	4105.6	4340.8	4608.8	4692.7	5046.3	5631.6	5640.7	5591.5
3434.7	42.5°	3624.3	3786.6	4154.8	4335.3	4561.4	4818.5	5451.1	5465.7	5431.0
3254.2	45°	3339.9	3520.4	3779.3	4107.4	4415.6	4504.9	5132.0	5285.2	5256.0
2895.1	47.5°	3079.2	3225.1	3542.3	3874.1	4215.0	4202.3	4765.6	5053.6	5013.5
2619.8	50°	2709.1	2964.4	3113.9	3418.3	3927.0	3961.6	4375.4	4782.0	4749.2
2226.0	52.5°	2284.3	2605.2	2891.4	3170.4	3635.3	3717.3	4012.6	4504.9	4483.0
1701.0	55°	1996.3	2229.7	2552.3	2776.6	3281.6	3500.4	3741.0	4240.5	4229.6
1398.3	57.5°	1420.2	1870.5	2136.7	2450.2	2716.4	3112.0	3290.7	3702.7	3600.6
774.8	60°	962.6	1174.1	1498.6	1835.9	2014.5	2410.1	2576.0	2906.0	2878.7
463.1	62.5°	508.6	703.7	935.3	1104.8	1234.2	1618.9	1688.2	2043.7	2034.6
186.0	65°	224.2	297.2	506.8	594.3	727.4	906.1	966.2	1093.9	1062.9
91.2	67.5°	116.7	176.8	286.2	351.9	443.0	510.5	559.7	599.8	625.3
60.2	70°	71.1	129.4	176.8	244.3	304.5	359.2	397.4	452.1	484.9
31.0	72.5°	52.9	82.0	122.1	187.8	220.6	284.4	322.7	362.8	392.0
25.5	75°	29.2	54.7	98.4	147.7	176.8	231.5	266.2	293.5	302.6
14.6	77.5°	18.2	41.9	82.0	114.9	138.6	187.8	178.7	204.2	226.1
10.9	80°	12.8	31.0	63.8	94.8	96.6	120.3	142.2	164.1	178.7
7.3	82.5°	9.1	25.5	47.4	72.9	63.8	93.0	111.2	127.6	93.0
5.5	85°	7.3	18.2	23.7	43.8	36.5	65.6	56.5	54.7	36.5
3.6	87.5°	5.5	9.1	16.4	20.1	14.6	14.6	18.2	21.9	18.2
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
5352.6
5219.5
5256.0
5287.0
5332.6
5425.6
5582.3
5788.3
6014.4
6204.0
6304.3
6189.4
6074.6
5967.0
5854.0
5722.7
5580.5
5427.4
5259.6
5042.7
4754.6
4497.6
4242.4
3589.7
2880.5
2036.4
1050.1
625.3
486.8
397.4
297.2
229.7
180.5
67.5
36.5
18.2
0.0

(END OF REPORT)