

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: P636861

Luminaire Tested: **IFLD-S-SA3D-927-U-LAM-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636861
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3D-927-U-LAM-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens and Visor
Light Source: (48) 2700K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10875.5 lumens
Efficiency: N/A
Efficacy: 59.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G1

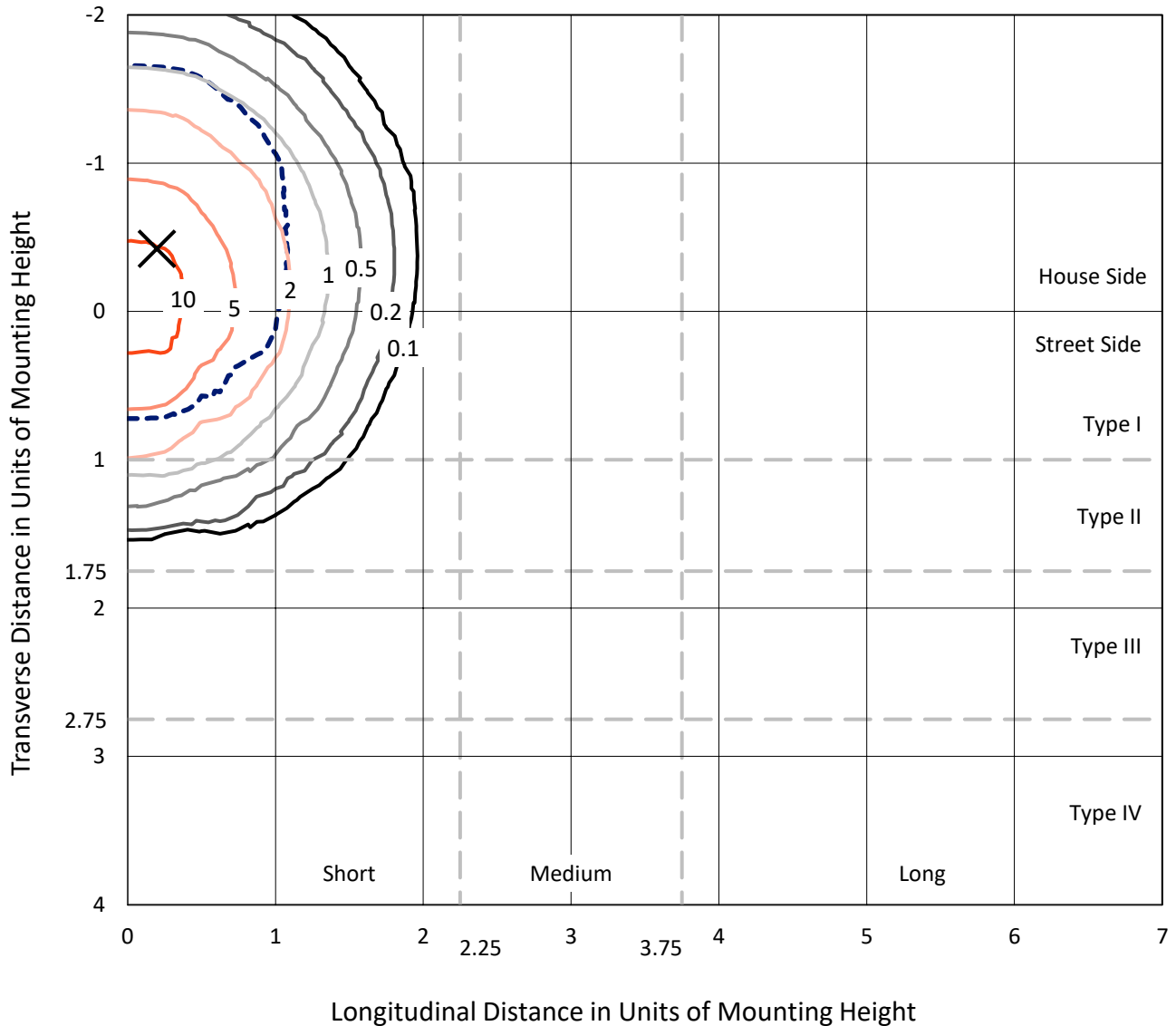
Input Watts (W): 184.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

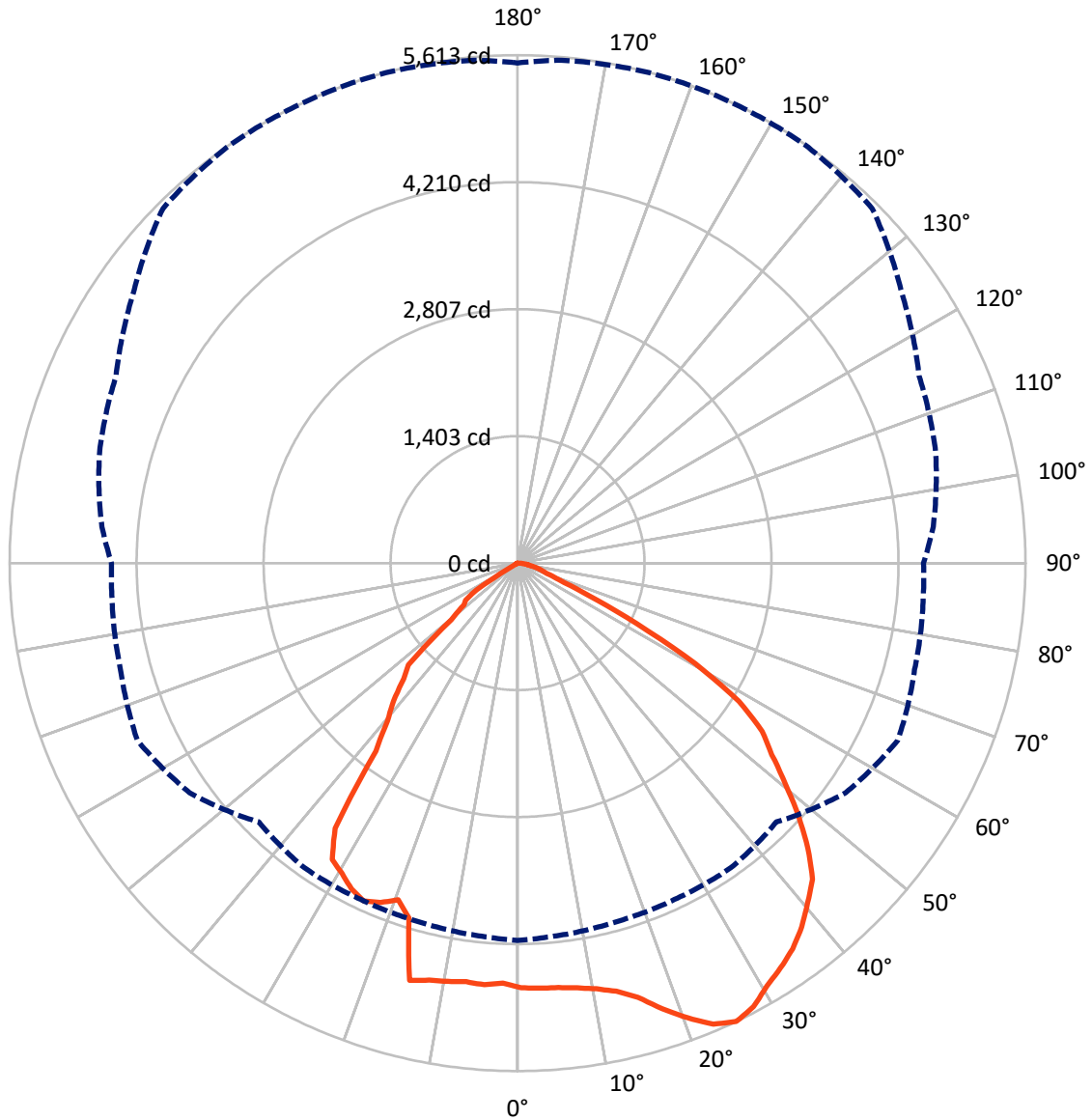
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 11.7 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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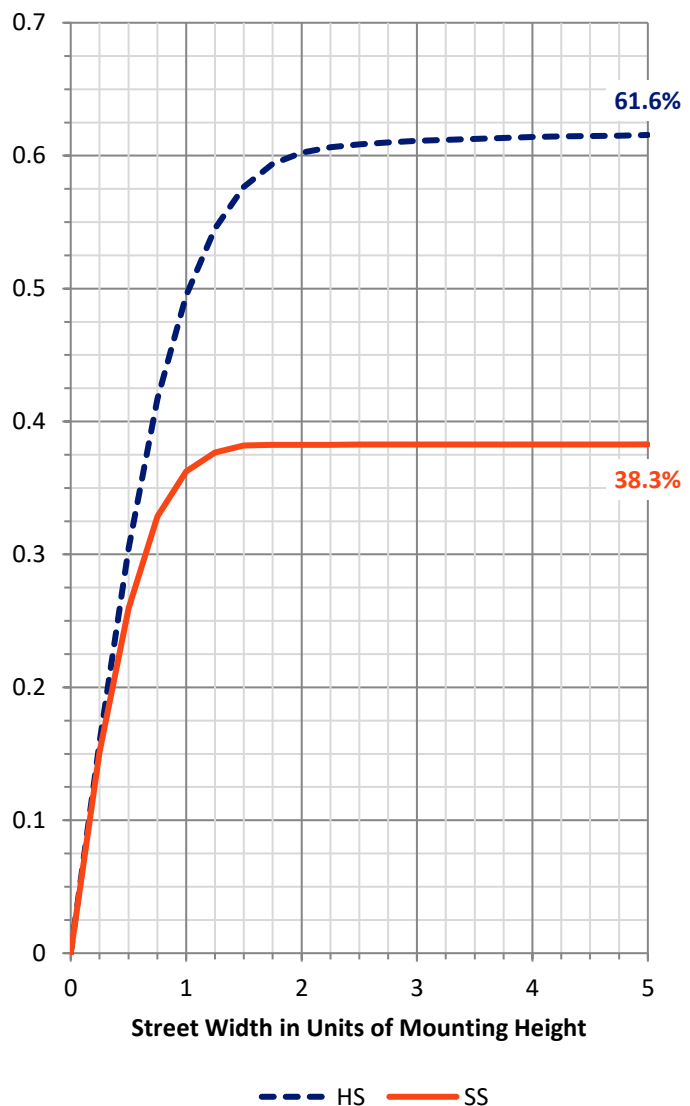
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6733.0	0.0	6733.0
	% Fixture	61.9	0.0	61.9
Street Side	Lumens	4142.4	0.0	4142.4
	% Fixture	38.1	0.0	38.1
Total	Lumens	10875.5	0.0	10875.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	450.2	4.1
10°-20°	1374.6	12.6
20°-30°	2173.2	20.0
30°-40°	2454.8	22.6
40°-50°	2299.0	21.1
50°-60°	1585.0	14.6
60°-70°	425.8	3.9
70°-80°	88.7	0.8
80°-90°	24.0	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°	10875.5	100.0
0°-180°	10875.5	100.0



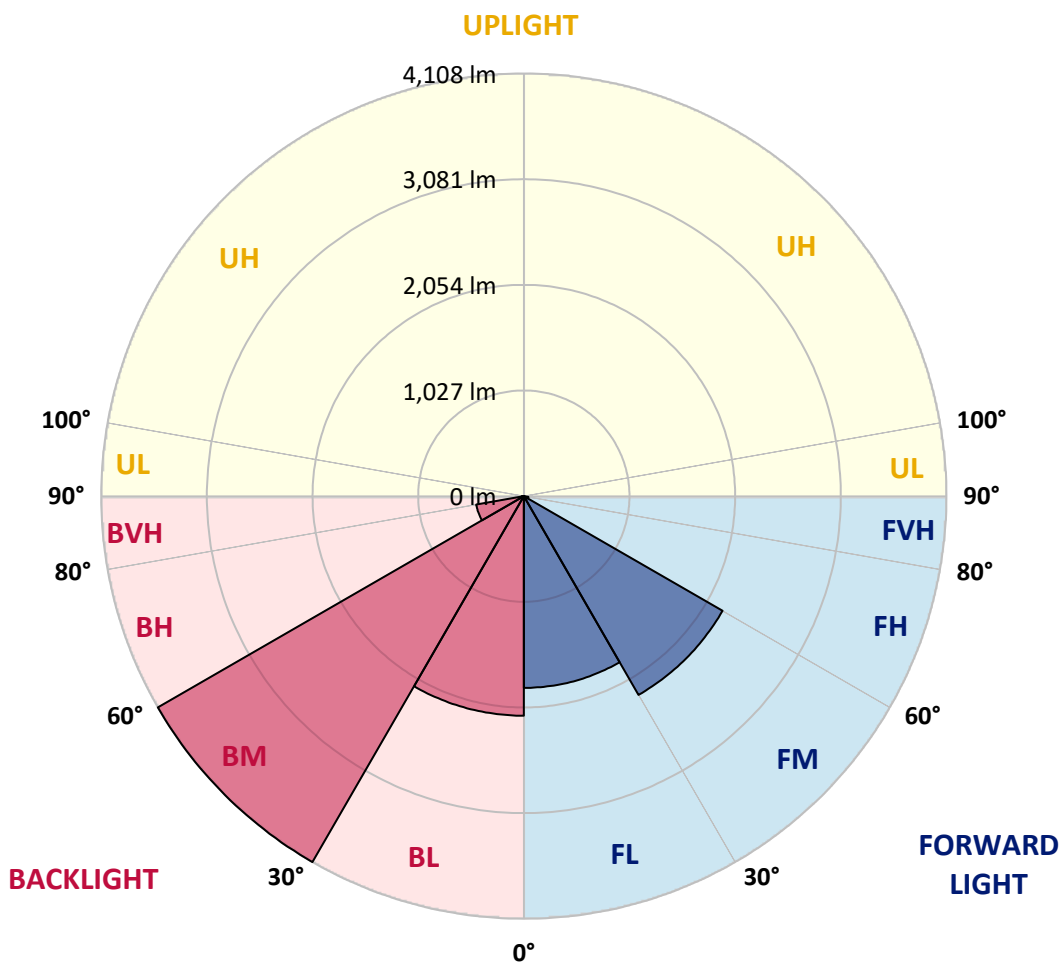
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1863.7	17.1			
FM (30°-60°)	2230.8	20.5			
FH (60°-80°)	44.7	0.4			G0/660
FVH (80°-90°)	3.2	0.0			G0/10
BL (0°-30°)	2134.3	19.6	B3/2500		
BM (30°-60°)	4108.0	37.8	B3/5000		
BH (60°-80°)	469.9	4.3	B1/500		G1/500
BVH (80°-90°)	20.8	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	4692.6	4692.6	4692.6	4692.6	4692.6	4692.6	4692.6	4692.6	4692.6	4692.6
2.5°	4713.3	4683.0	4654.2	4644.6	4684.6	4727.7	4700.6	4702.2	4692.6	4710.2
5°	4748.5	4707.0	4687.8	4673.4	4679.8	4724.5	4686.2	4700.6	4684.6	4705.4
7.5°	4735.7	4707.0	4687.8	4660.6	4681.4	4734.1	4697.4	4699.0	4691.0	4710.2
10°	4727.7	4707.0	4683.0	4686.2	4710.2	4754.9	4726.1	4742.1	4730.9	4742.1
12.5°	4746.9	4724.5	4711.7	4711.7	4732.5	4783.7	4769.3	4783.7	4778.9	4788.5
15°	4566.3	4587.1	4708.6	4762.9	4804.5	4855.6	4849.2	4863.6	4866.8	4881.2
17.5°	3851.9	3831.1	3821.5	4101.2	4844.4	5002.6	4997.8	4996.2	4980.3	4969.1
20°	3946.2	3938.2	3927.0	3947.8	4030.9	5079.4	5111.3	4914.7	4857.2	4852.4
22.5°	4096.4	4083.6	4042.1	4043.7	4069.2	4416.1	4953.1	4774.1	4754.9	4743.7
25°	4169.9	4144.4	4110.8	4101.2	4109.2	4045.3	4424.1	4636.6	4542.3	4499.2
27.5°	4040.5	4042.1	4014.9	4040.5	4010.1	3722.4	3561.0	4368.1	4364.9	4345.7
30°	3943.0	3938.2	3906.2	3938.2	3728.8	3407.5	3338.8	4074.0	4040.5	4014.9
32.5°	3644.1	3647.3	3740.0	3864.7	3521.0	3266.9	3059.1	3639.3	3957.4	3943.0
35°	2606.8	2613.2	2942.4	3557.8	3206.2	2987.2	2971.2	3145.4	3826.3	3832.7
37.5°	2509.3	2509.3	2501.3	2602.0	2958.4	2873.7	2905.7	2888.1	3505.0	3521.0
40°	2439.0	2424.6	2413.4	2255.2	2057.0	2793.8	2816.2	2736.3	3313.2	3316.4
42.5°	2354.3	2338.3	2341.5	2049.0	1841.2	2595.6	2533.3	2426.2	2993.6	2996.8
45°	2199.2	2226.4	2245.6	1793.3	1777.3	1854.0	2336.7	2269.6	2777.8	2837.0
47.5°	1118.8	1142.8	1753.3	1649.4	1686.2	1647.8	1973.9	1975.5	2311.1	2507.7
50°	1014.9	1008.5	1010.1	962.2	1556.7	1333.0	1427.3	1810.9	1850.8	2132.1
52.5°	946.2	944.6	847.1	752.8	978.2	1173.1	1035.7	1310.6	1376.1	1806.1
55°	700.0	751.2	668.1	708.0	612.1	939.8	935.0	1182.7	1205.1	1448.0
57.5°	6.4	8.0	19.2	538.6	423.5	469.9	645.7	807.1	847.1	1128.4
60°	1.6	3.2	8.0	16.0	274.9	289.3	431.5	466.7	525.8	672.9
62.5°	0.0	0.0	3.2	8.0	14.4	118.3	137.5	150.2	231.8	343.6
65°	0.0	0.0	1.6	4.8	8.0	19.2	33.6	70.3	100.7	124.7
67.5°	0.0	0.0	1.6	3.2	6.4	9.6	19.2	27.2	43.2	73.5
70°	0.0	0.0	1.6	3.2	4.8	8.0	12.8	19.2	25.6	36.8
72.5°	0.0	0.0	1.6	3.2	3.2	9.6	9.6	14.4	19.2	24.0
75°	0.0	0.0	1.6	1.6	3.2	6.4	9.6	11.2	12.8	19.2
77.5°	0.0	0.0	1.6	3.2	4.8	6.4	8.0	12.8	11.2	11.2
80°	0.0	0.0	1.6	4.8	4.8	8.0	9.6	12.8	8.0	8.0
82.5°	0.0	0.0	1.6	6.4	4.8	16.0	16.0	17.6	6.4	6.4
85°	0.0	0.0	4.8	3.2	9.6	16.0	14.4	9.6	8.0	4.8
87.5°	0.0	0.0	1.6	1.6	3.2	4.8	11.2	9.6	3.2	3.2
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°
4692.6	0°	4692.6	4692.6	4692.6	4692.6	4692.6	4692.6	4692.6	4692.6	4692.6
4663.8	2.5°	4727.7	4707.0	4750.1	4745.3	4724.5	4714.9	4703.8	4694.2	4623.8
4667.0	5°	4729.3	4697.4	4750.1	4740.5	4737.3	4721.3	4711.7	4726.1	4662.2
4679.8	7.5°	4729.3	4697.4	4754.9	4758.1	4753.3	4740.5	4738.9	4748.5	4695.8
4702.2	10°	4761.3	4748.5	4796.5	4801.3	4794.9	4791.7	4783.7	4777.3	4721.3
4778.9	12.5°	4828.4	4802.9	4857.2	4871.6	4866.8	4874.8	4855.6	4865.2	4807.6
4857.2	15°	4909.9	4911.5	4953.1	4985.1	4981.9	5007.4	4978.7	5004.2	4962.7
4946.7	17.5°	5034.6	5052.2	5111.3	5159.3	5176.9	5196.0	5176.9	5184.8	5125.7
4847.6	20°	4903.5	4969.1	5253.6	5341.5	5378.2	5395.8	5363.9	5373.4	5314.3
4726.1	22.5°	4785.3	4870.0	5122.5	5397.4	5510.9	5546.1	5534.9	5533.3	5510.9
4486.4	25°	4611.1	4782.1	4895.6	5186.4	5542.9	5606.8	5613.2	5611.6	5578.0
4339.3	27.5°	4396.9	4435.2	4729.3	4906.7	5319.1	5562.0	5552.4	5506.1	5461.3
4034.1	30°	4123.6	4297.8	4430.5	4713.3	5029.8	5424.6	5424.6	5389.4	5343.1
3925.4	32.5°	3984.5	4209.9	4333.0	4435.2	4705.4	5271.2	5335.1	5298.3	5261.6
3840.7	35°	3911.0	3944.6	4232.3	4325.0	4553.5	4975.5	5234.4	5197.6	5170.5
3615.3	37.5°	3749.6	3827.9	3962.2	4209.9	4280.2	4734.1	5100.1	5081.0	5049.0
3322.8	40°	3390.0	3599.3	3805.5	4040.5	4114.0	4424.1	4937.1	4945.1	4901.9
3011.2	42.5°	3177.4	3319.6	3642.5	3800.7	3998.9	4224.3	4778.9	4791.7	4761.3
2852.9	45°	2928.1	3086.3	3313.2	3600.9	3871.1	3949.4	4499.2	4633.4	4607.9
2538.1	47.5°	2699.5	2827.4	3105.5	3396.4	3695.2	3684.1	4177.9	4430.5	4395.3
2296.7	50°	2375.1	2598.8	2729.9	2996.8	3442.7	3473.1	3835.9	4192.3	4163.5
1951.5	52.5°	2002.7	2284.0	2534.9	2779.4	3187.0	3258.9	3517.8	3949.4	3930.2
1491.2	55°	1750.1	1954.7	2237.6	2434.2	2876.9	3068.7	3279.7	3717.6	3708.0
1225.9	57.5°	1245.1	1639.8	1873.2	2148.1	2381.4	2728.3	2884.9	3246.1	3156.6
679.3	60°	843.9	1029.3	1313.8	1609.5	1766.1	2112.9	2258.4	2547.7	2523.7
406.0	62.5°	445.9	616.9	819.9	968.6	1082.0	1419.3	1480.0	1791.7	1783.7
163.0	65°	196.6	260.5	444.3	521.0	637.7	794.3	847.1	959.0	931.8
79.9	67.5°	102.3	155.0	250.9	308.5	388.4	447.5	490.7	525.8	548.2
52.7	70°	62.3	113.5	155.0	214.2	266.9	314.9	348.4	396.4	425.1
27.2	72.5°	46.4	71.9	107.1	164.6	193.4	249.3	282.9	318.1	343.6
22.4	75°	25.6	47.9	86.3	129.5	155.0	203.0	233.3	257.3	265.3
12.8	77.5°	16.0	36.8	71.9	100.7	121.5	164.6	156.6	179.0	198.2
9.6	80°	11.2	27.2	55.9	83.1	84.7	105.5	124.7	143.8	156.6
6.4	82.5°	8.0	22.4	41.6	63.9	55.9	81.5	97.5	111.9	81.5
4.8	85°	6.4	16.0	20.8	38.4	32.0	57.5	49.5	47.9	32.0
3.2	87.5°	4.8	8.0	14.4	17.6	12.8	12.8	16.0	19.2	16.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
4692.6
4575.9
4607.9
4635.0
4675.0
4756.5
4894.0
5074.6
5272.7
5439.0
5526.9
5426.2
5325.5
5231.2
5132.1
5017.0
4892.4
4758.1
4611.1
4420.9
4168.3
3943.0
3719.2
3147.0
2525.3
1785.3
920.6
548.2
426.7
348.4
260.5
201.4
158.2
59.1
32.0
16.0
0.0

(END OF REPORT)