

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: P638547

Luminaire Tested: **IFLD-S-SA6C-830-U-LAM-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638547
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6C-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: 24334.8 lumens
Efficiency: N/A
Efficacy: 75.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G3

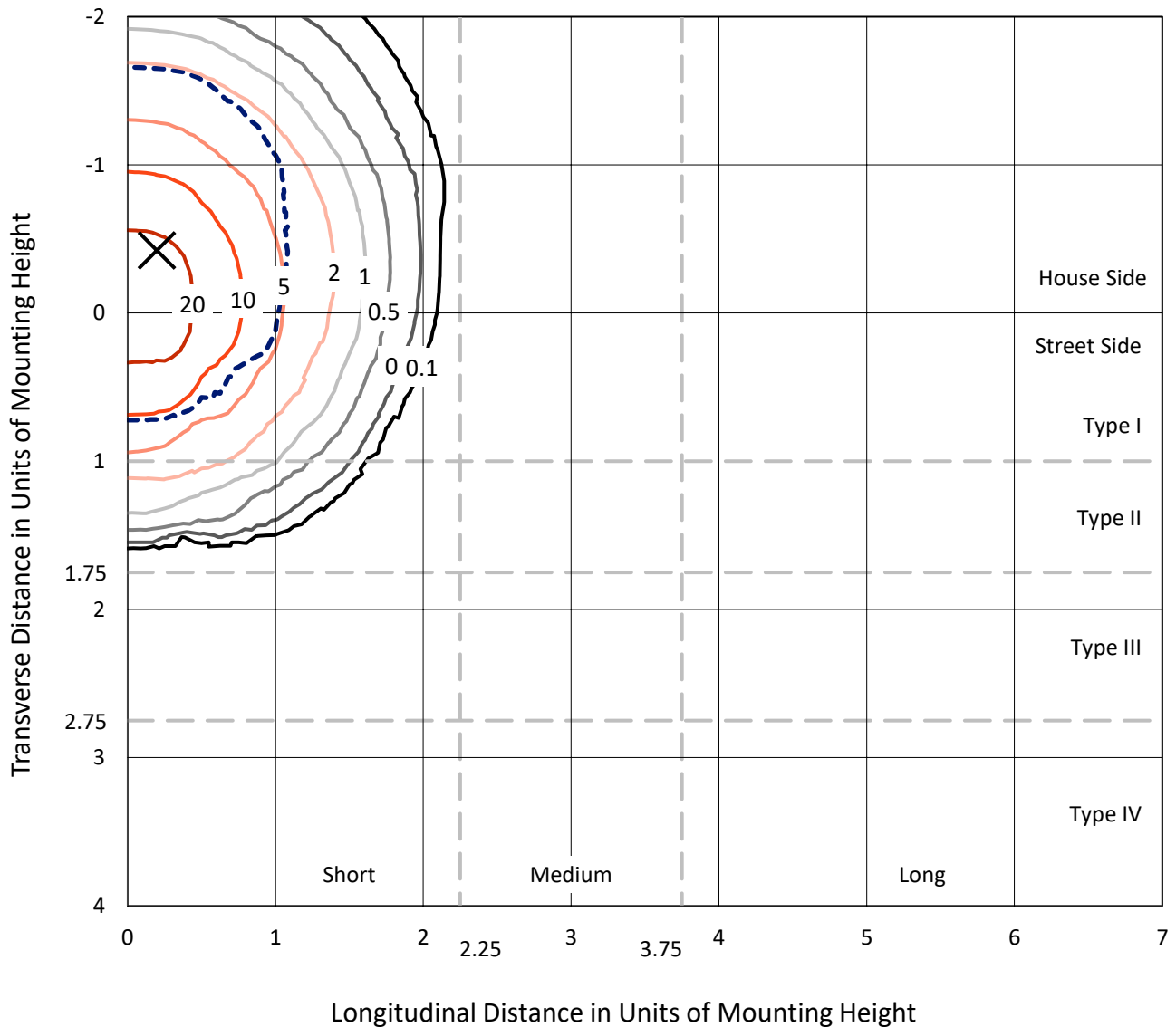
Input Watts (W): 321.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

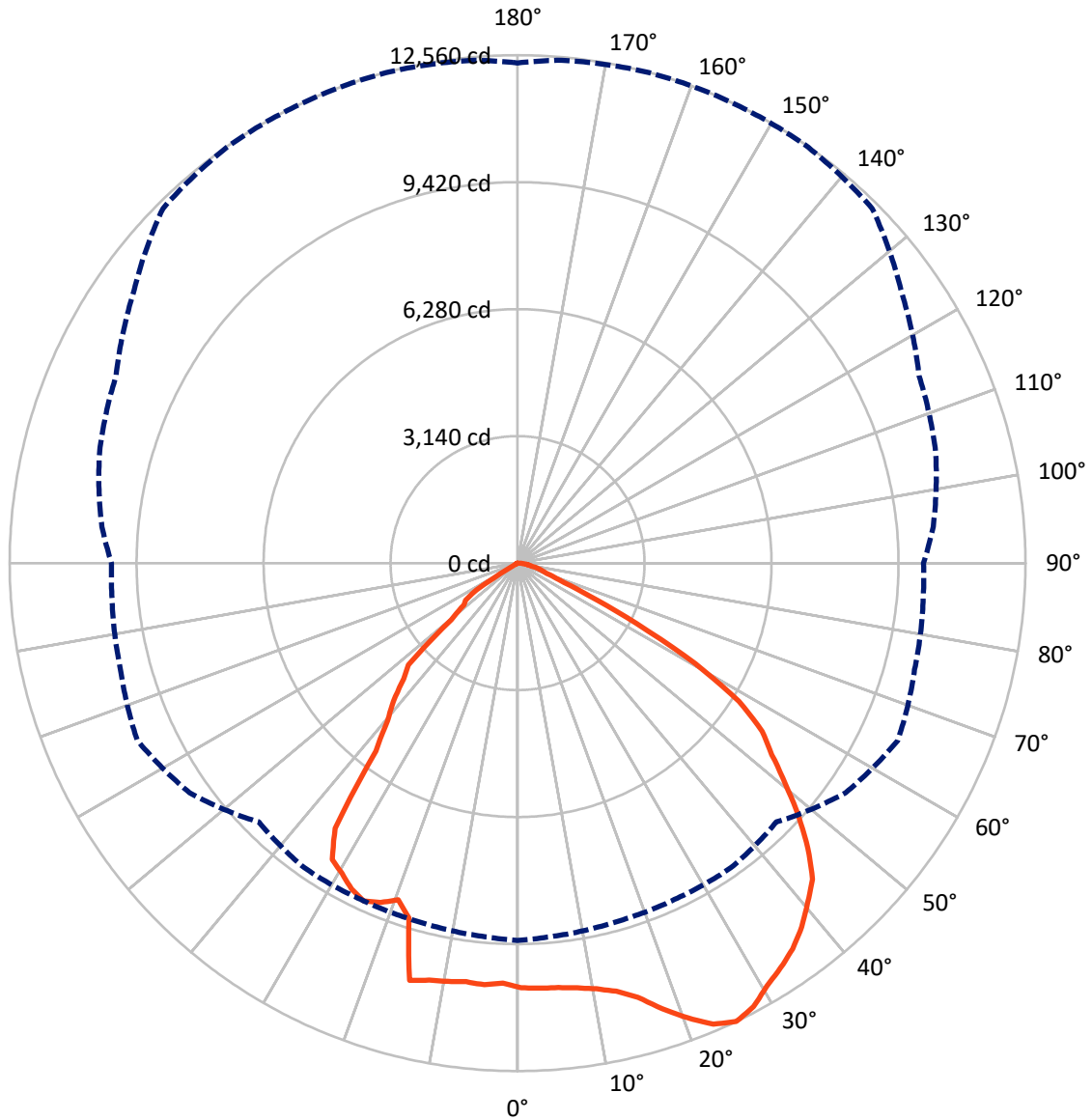
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 26.2 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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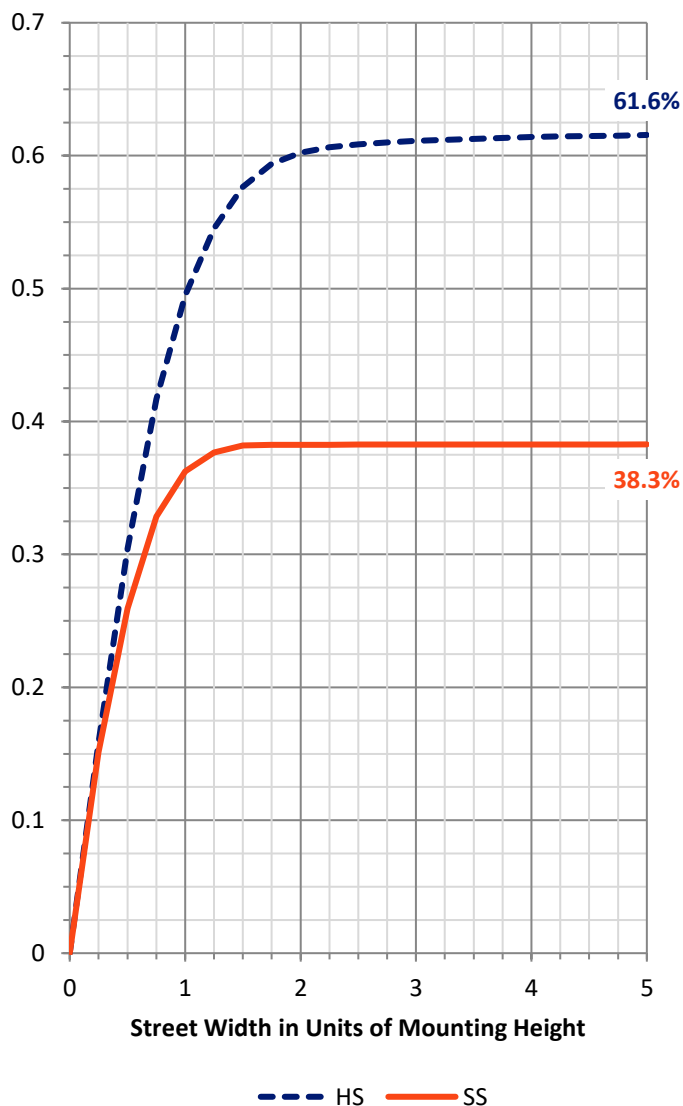
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15065.7	0.0	15065.7
	% Fixture	61.9	0.0	61.9
Street Side	Lumens	9269.1	0.0	9269.1
	% Fixture	38.1	0.0	38.1
Total	Lumens	24334.8	0.0	24334.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1007.3	4.1
10°-20°	3075.9	12.6
20°-30°	4862.8	20.0
30°-40°	5492.9	22.6
40°-50°	5144.2	21.1
50°-60°	3546.6	14.6
60°-70°	952.9	3.9
70°-80°	198.6	0.8
80°-90°	53.7	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°	24334.8	100.0
0°-180°	24334.8	100.0



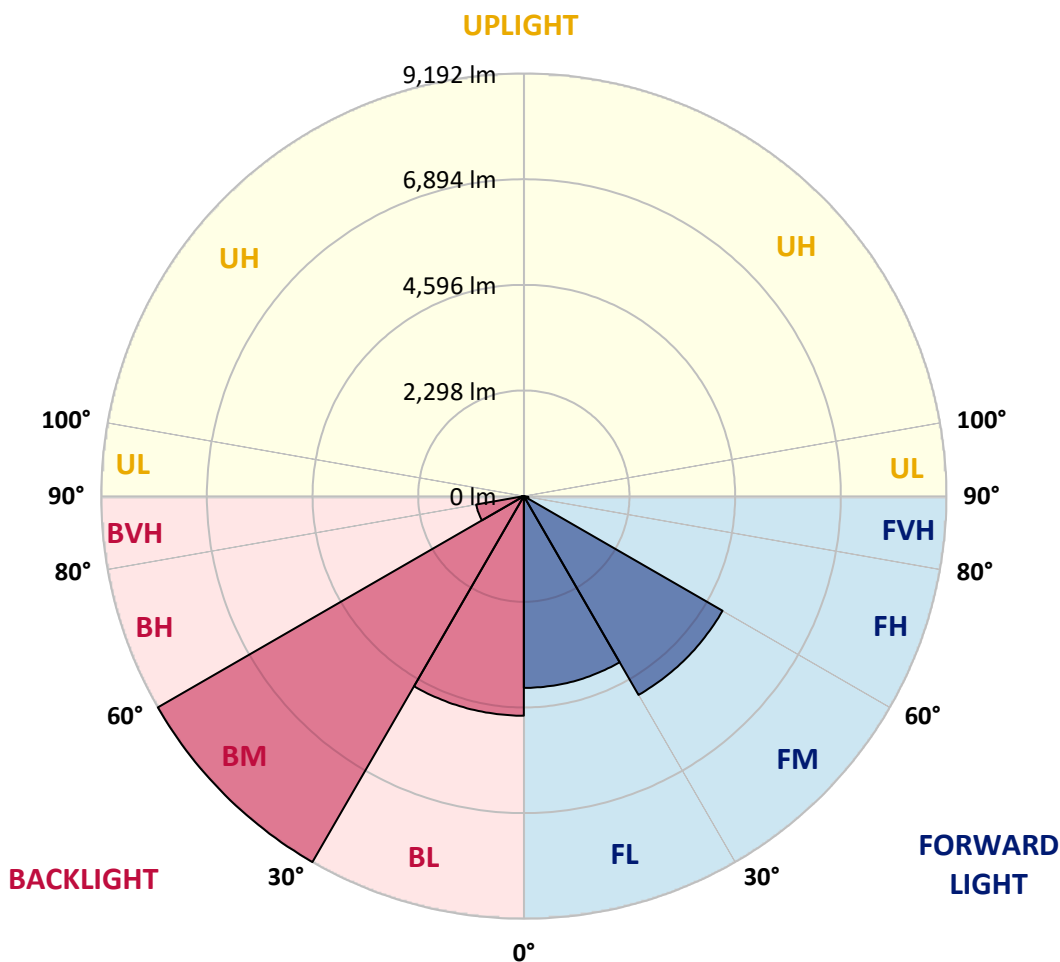
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4170.2	17.1			
FM (30°-60°)	4991.6	20.5			
FH (60°-80°)	100.0	0.4			G0/660
FVH (80°-90°)	7.2	0.0			G0/10
BL (0°-30°)	4775.7	19.6	B4/5000		
BM (30°-60°)	9192.1	37.8	B5		
BH (60°-80°)	1051.4	4.3	B3/2500		G3/2500
BVH (80°-90°)	46.5	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°	10500.0	10500.0	10500.0	10500.0	10500.0	10500.0	10500.0	10500.0	10500.0	10500.0
2.5°	10546.5	10478.6	10414.2	10392.7	10482.1	10578.7	10517.9	10521.5	10500.0	10539.4
5°	10625.2	10532.2	10489.3	10457.1	10471.4	10571.6	10485.7	10517.9	10482.1	10528.6
7.5°	10596.6	10532.2	10489.3	10428.5	10475.0	10593.0	10510.8	10514.3	10496.5	10539.4
10°	10578.7	10532.2	10478.6	10485.7	10539.4	10639.5	10575.1	10610.9	10585.9	10610.9
12.5°	10621.6	10571.6	10542.9	10542.9	10589.4	10703.9	10671.7	10703.9	10693.2	10714.6
15°	10217.5	10264.0	10535.8	10657.4	10750.4	10864.8	10850.5	10882.7	10889.8	10922.0
17.5°	8618.9	8572.4	8550.9	9176.8	10839.8	11193.8	11183.1	11179.5	11143.8	11118.7
20°	8829.9	8812.0	8787.0	8833.5	9019.4	11365.5	11437.0	10997.1	10868.4	10857.7
22.5°	9166.1	9137.5	9044.5	9048.1	9105.3	9881.3	11083.0	10682.4	10639.5	10614.5
25°	9330.6	9273.4	9198.3	9176.8	9194.7	9051.6	9899.2	10374.9	10163.9	10067.3
27.5°	9040.9	9044.5	8983.7	9040.9	8972.9	8329.2	7968.0	9774.0	9766.9	9724.0
30°	8822.7	8812.0	8740.5	8812.0	8343.5	7624.7	7470.9	9116.0	9040.9	8983.7
32.5°	8154.0	8161.1	8368.6	8647.5	7878.6	7310.0	6845.0	8143.2	8854.9	8822.7
35°	5833.0	5847.3	6584.0	7960.9	7174.1	6684.1	6648.3	7038.2	8561.7	8576.0
37.5°	5614.8	5614.8	5596.9	5822.2	6619.7	6430.2	6501.7	6462.4	7842.8	7878.6
40°	5457.4	5425.3	5400.2	5046.2	4602.7	6251.4	6301.4	6122.6	7413.7	7420.8
42.5°	5267.9	5232.1	5239.3	4584.8	4119.9	5807.9	5668.4	5428.8	6698.4	6705.6
45°	4921.0	4981.8	5024.7	4012.6	3976.9	4148.5	5228.6	5078.4	6215.6	6347.9
47.5°	2503.4	2557.1	3923.2	3690.7	3773.0	3687.2	4416.7	4420.3	5171.3	5611.2
50°	2271.0	2256.6	2260.2	2152.9	3483.3	2982.6	3193.6	4052.0	4141.4	4770.8
52.5°	2117.2	2113.6	1895.4	1684.4	2188.7	2625.0	2317.4	2932.6	3079.2	4041.2
55°	1566.4	1680.9	1494.9	1584.3	1369.7	2102.9	2092.1	2646.5	2696.5	3240.1
57.5°	14.3	17.9	42.9	1205.2	947.7	1051.4	1444.8	1806.0	1895.4	2524.9
60°	3.6	7.2	17.9	35.8	615.1	647.3	965.6	1044.3	1176.6	1505.6
62.5°	0.0	0.0	7.2	17.9	32.2	264.6	307.6	336.2	518.6	768.9
65°	0.0	0.0	3.6	10.7	17.9	42.9	75.1	157.4	225.3	279.0
67.5°	0.0	0.0	3.6	7.2	14.3	21.5	42.9	60.8	96.6	164.5
70°	0.0	0.0	3.6	7.2	10.7	17.9	28.6	42.9	57.2	82.3
72.5°	0.0	0.0	3.6	7.2	7.2	21.5	21.5	32.2	42.9	53.6
75°	0.0	0.0	3.6	3.6	7.2	14.3	21.5	25.0	28.6	42.9
77.5°	0.0	0.0	3.6	7.2	10.7	14.3	17.9	28.6	25.0	25.0
80°	0.0	0.0	3.6	10.7	10.7	17.9	21.5	28.6	17.9	17.9
82.5°	0.0	0.0	3.6	14.3	10.7	35.8	35.8	39.3	14.3	14.3
85°	0.0	0.0	10.7	7.2	21.5	35.8	32.2	21.5	17.9	10.7
87.5°	0.0	0.0	3.6	3.6	7.2	10.7	25.0	21.5	7.2	7.2
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°
10500.0	0°	10500.0	10500.0	10500.0	10500.0	10500.0	10500.0	10500.0	10500.0	10500.0
10435.7	2.5°	10578.7	10532.2	10628.8	10618.0	10571.6	10550.1	10525.1	10503.6	10346.2
10442.8	5°	10582.3	10510.8	10628.8	10607.3	10600.2	10564.4	10542.9	10575.1	10432.1
10471.4	7.5°	10582.3	10510.8	10639.5	10646.7	10635.9	10607.3	10603.7	10625.2	10507.2
10521.5	10°	10653.8	10625.2	10732.5	10743.2	10728.9	10721.8	10703.9	10689.6	10564.4
10693.2	12.5°	10804.0	10746.8	10868.4	10900.6	10889.8	10907.7	10864.8	10886.3	10757.5
10868.4	15°	10986.4	10990.0	11083.0	11154.5	11147.3	11204.6	11140.2	11197.4	11104.4
11068.7	17.5°	11265.4	11304.7	11437.0	11544.3	11583.6	11626.6	11583.6	11601.5	11469.2
10846.9	20°	10972.1	11118.7	11755.3	11952.0	12034.3	12073.6	12002.1	12023.5	11891.2
10575.1	22.5°	10707.5	10897.0	11462.1	12077.2	12331.1	12409.8	12384.7	12381.2	12331.1
10038.7	25°	10317.6	10700.3	10954.2	11605.1	12402.6	12545.7	12560.0	12556.4	12481.3
9709.7	27.5°	9838.4	9924.2	10582.3	10979.3	11901.9	12445.5	12424.1	12320.4	12220.2
9026.6	30°	9226.9	9616.7	9913.5	10546.5	11254.6	12138.0	12138.0	12059.3	11955.6
8783.4	32.5°	8915.7	9420.0	9695.4	9924.2	10528.6	11794.7	11937.7	11855.4	11773.2
8593.9	35°	8751.2	8826.3	9470.1	9677.5	10188.9	11133.0	11712.4	11630.1	11569.3
8089.6	37.5°	8390.0	8565.2	8865.7	9420.0	9577.3	10593.0	11412.0	11369.1	11297.5
7435.1	40°	7585.3	8053.8	8515.2	9040.9	9205.4	9899.2	11047.2	11065.1	10968.5
6737.8	42.5°	7109.7	7428.0	8150.4	8504.5	8947.9	9452.2	10693.2	10721.8	10653.8
6383.7	45°	6551.8	6905.8	7413.7	8057.4	8661.8	8837.0	10067.3	10367.7	10310.5
5679.2	47.5°	6040.4	6326.5	6948.8	7599.6	8268.4	8243.4	9348.5	9913.5	9834.8
5139.1	50°	5314.4	5815.1	6108.3	6705.6	7703.4	7771.3	8583.1	9380.6	9316.3
4366.7	52.5°	4481.1	5110.5	5672.0	6219.2	7131.2	7292.1	7871.4	8837.0	8794.1
3336.7	55°	3916.1	4373.8	5006.8	5446.7	6437.3	6866.5	7338.6	8318.5	8297.0
2743.0	57.5°	2785.9	3669.3	4191.4	4806.6	5328.7	6104.8	6455.2	7263.5	7063.2
1519.9	60°	1888.3	2303.1	2939.7	3601.3	3951.8	4727.9	5053.3	5700.6	5647.0
908.4	62.5°	997.8	1380.5	1834.6	2167.2	2421.2	3175.8	3311.7	4009.0	3991.2
364.8	65°	439.9	582.9	994.2	1165.9	1426.9	1777.4	1895.4	2145.8	2085.0
178.8	67.5°	228.9	346.9	561.5	690.2	869.0	1001.4	1097.9	1176.6	1226.7
118.0	70°	139.5	253.9	346.9	479.2	597.2	704.5	779.6	886.9	951.3
60.8	72.5°	103.7	160.9	239.6	368.4	432.7	557.9	633.0	711.7	768.9
50.1	75°	57.2	107.3	193.1	289.7	346.9	454.2	522.1	575.8	593.7
28.6	77.5°	35.8	82.3	160.9	225.3	271.8	368.4	350.5	400.5	443.5
21.5	80°	25.0	60.8	125.2	186.0	189.5	236.0	279.0	321.9	350.5
14.3	82.5°	17.9	50.1	93.0	143.1	125.2	182.4	218.2	250.3	182.4
10.7	85°	14.3	35.8	46.5	85.8	71.5	128.7	110.9	107.3	71.5
7.2	87.5°	10.7	17.9	32.2	39.3	28.6	28.6	35.8	42.9	35.8
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
10500.0
10239.0
10310.5
10371.3
10460.7
10643.1
10950.6
11354.8
11798.2
12170.2
12366.9
12141.6
11916.2
11705.2
11483.5
11226.0
10947.1
10646.7
10317.6
9892.1
9327.0
8822.7
8322.1
7041.7
5650.6
3994.7
2060.0
1226.7
954.9
779.6
582.9
450.6
354.1
132.3
71.5
35.8
0.0

(END OF REPORT)