

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: P638524

Luminaire Tested: **IFLD-M-SA4D-827-U-LAM-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638524
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4D-827-U-LAM-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens and Visor
Light Source: (64) 2700K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16949.5 lumens
Efficiency: N/A
Efficacy: 67.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G2

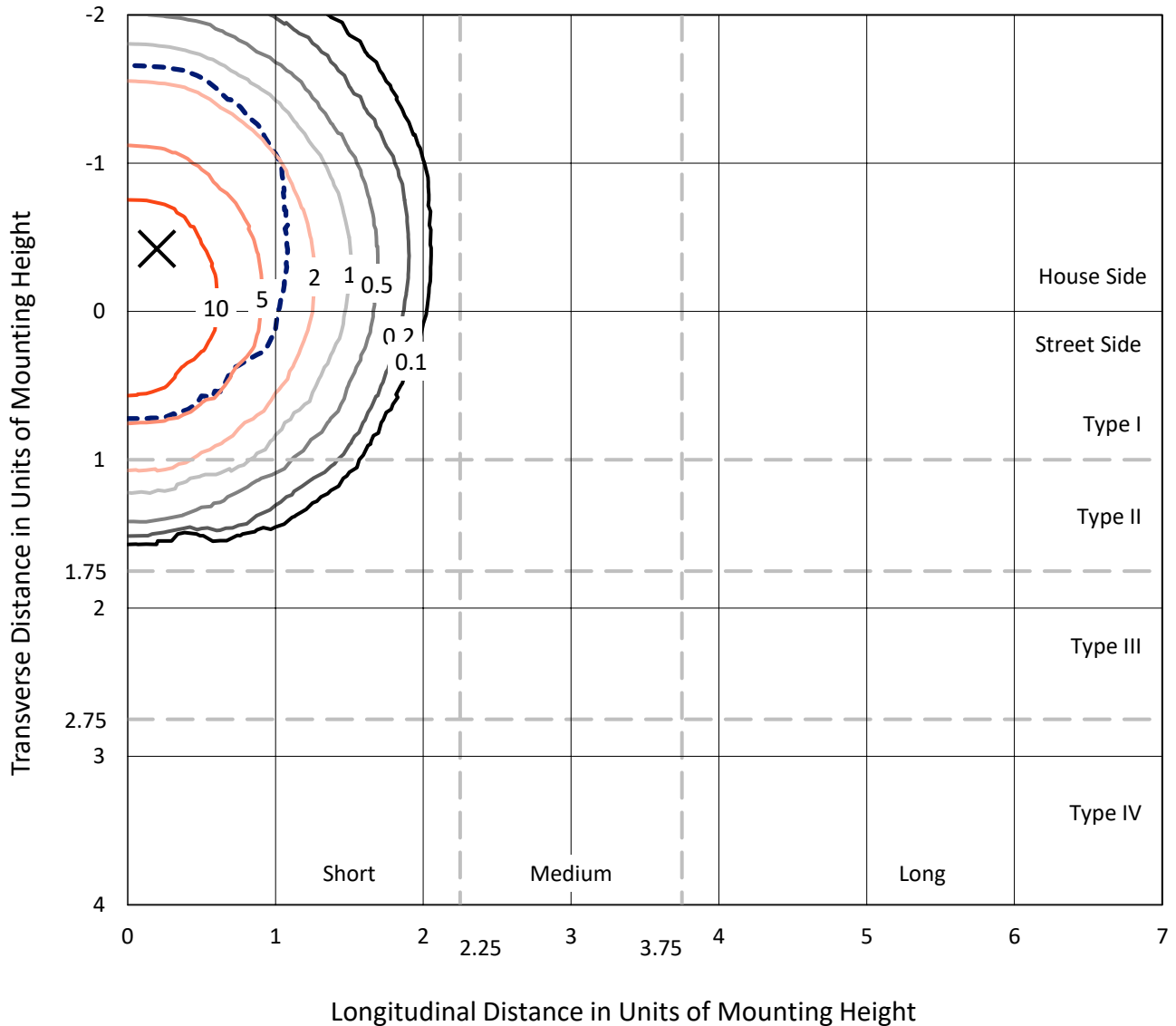
Input Watts (W): 249.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

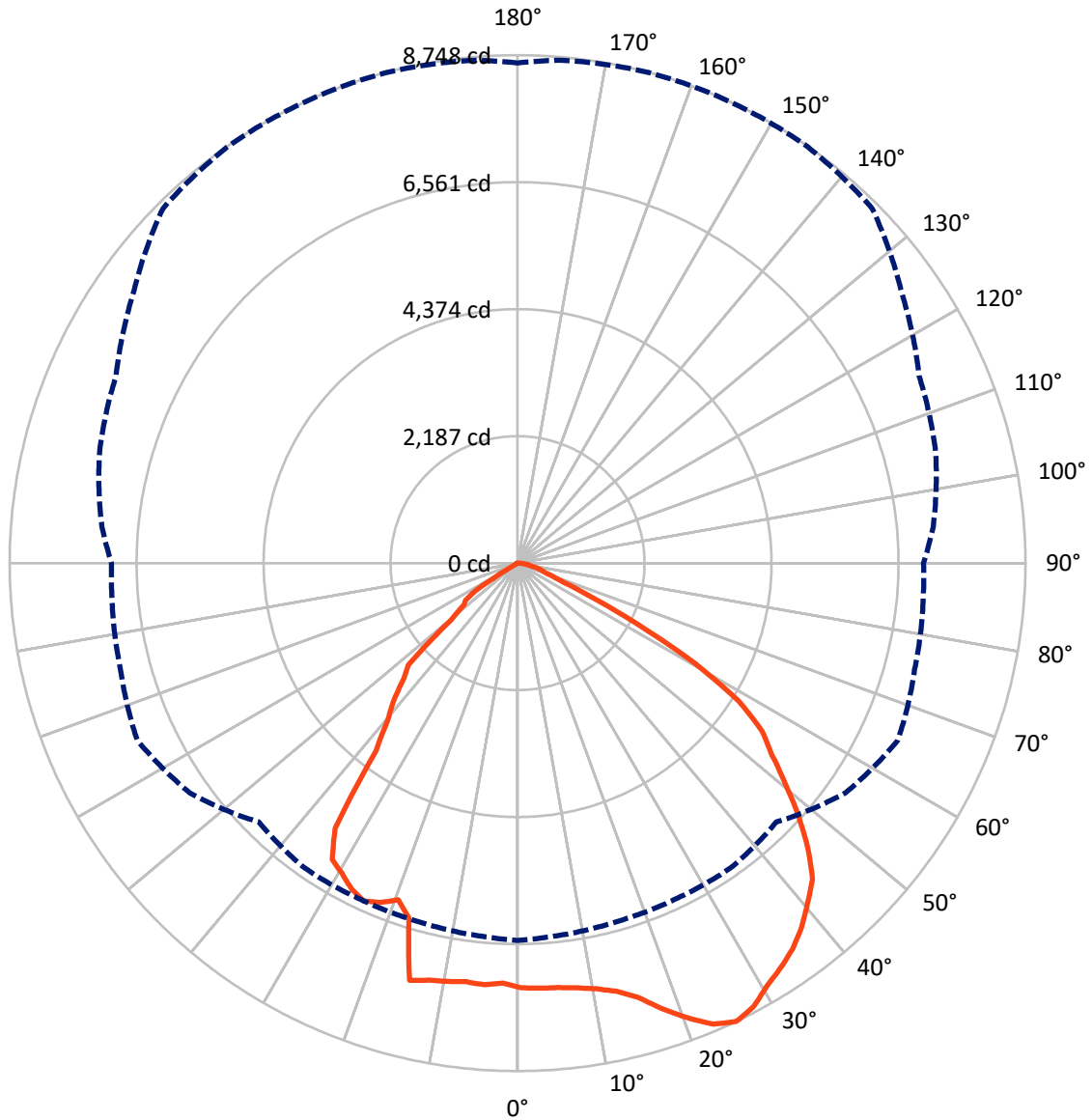
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 18.3 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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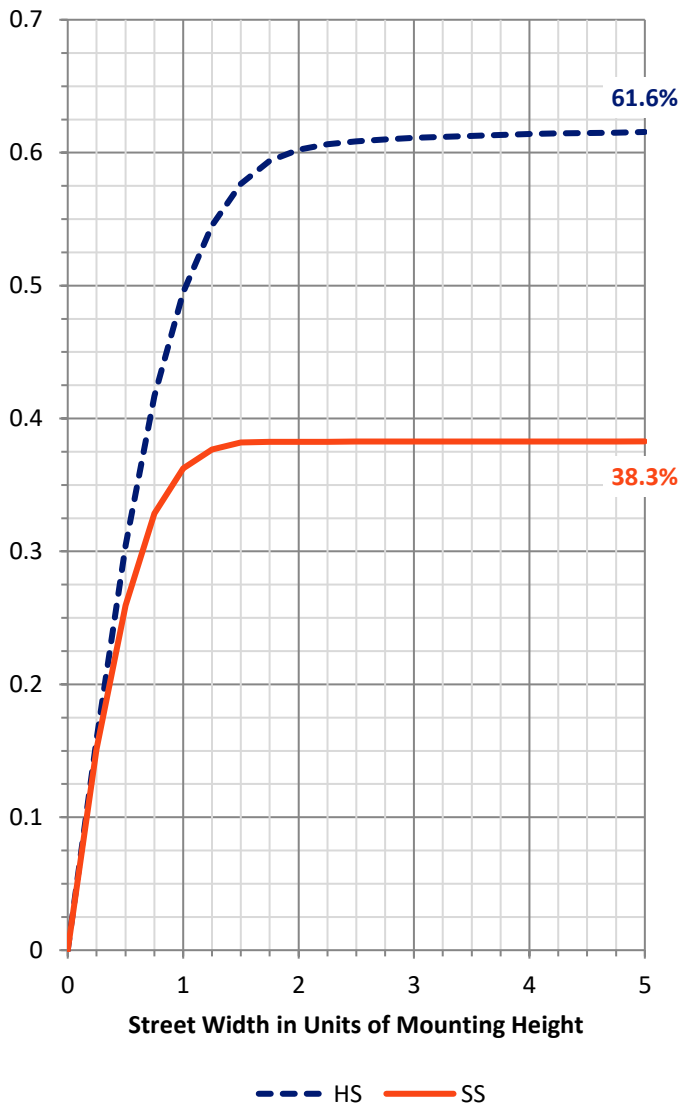
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10493.5	0.0	10493.5
	% Fixture	61.9	0.0	61.9
Street Side	Lumens	6456.0	0.0	6456.0
	% Fixture	38.1	0.0	38.1
Total	Lumens	16949.5	0.0	16949.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	701.6	4.1
10°-20°	2142.4	12.6
20°-30°	3387.0	20.0
30°-40°	3825.9	22.6
40°-50°	3583.0	21.1
50°-60°	2470.2	14.6
60°-70°	663.7	3.9
70°-80°	138.3	0.8
80°-90°	37.4	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°	16949.5	100.0
0°-180°	16949.5	100.0

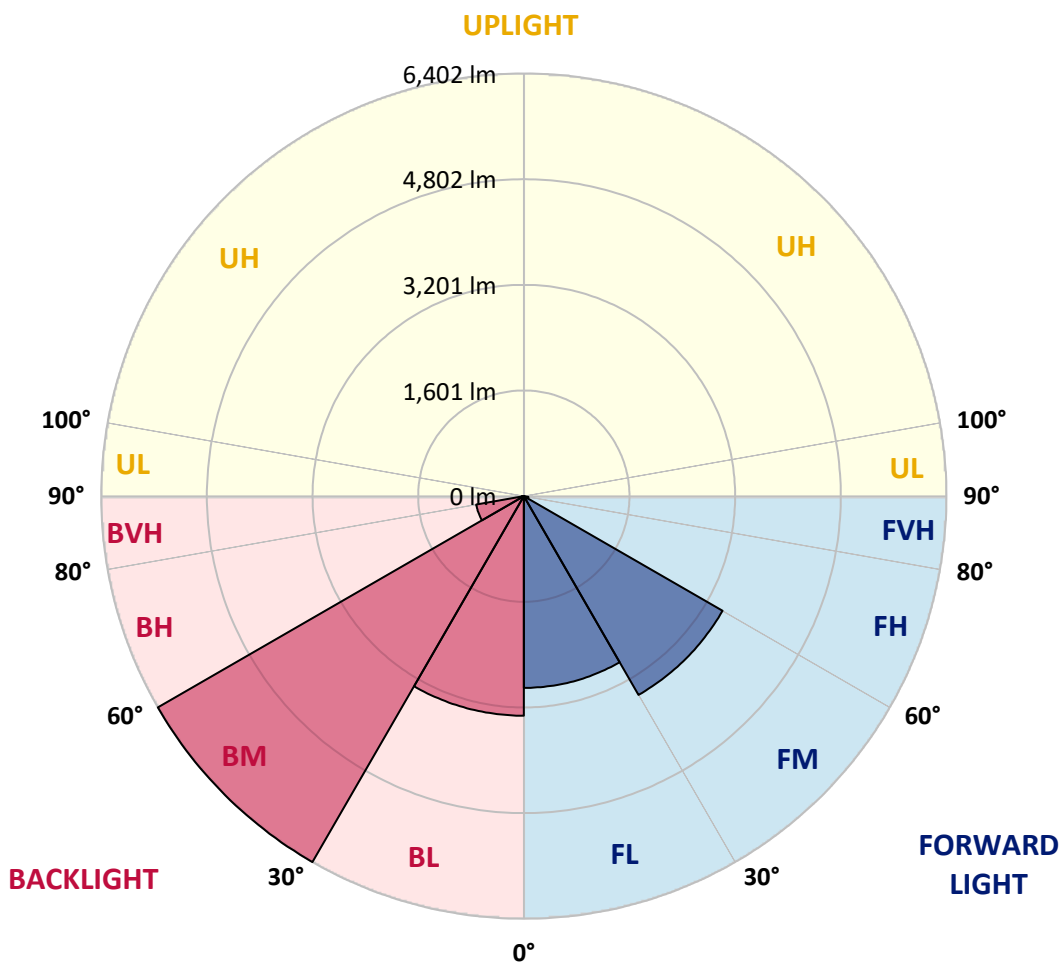


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2904.6	17.1			
FM (30°-60°)	3476.7	20.5			
FH (60°-80°)	69.7	0.4			G0/660
FVH (80°-90°)	5.0	0.0			G0/10
BL (0°-30°)	3326.4	19.6	B4/5000		
BM (30°-60°)	6402.4	37.8	B4/8500		
BH (60°-80°)	732.3	4.3	B2/1000		G2/1000
BVH (80°-90°)	32.4	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°	7313.4	7313.4	7313.4	7313.4	7313.4	7313.4	7313.4	7313.4	7313.4	7313.4
2.5°	7345.8	7298.5	7253.6	7238.7	7301.0	7368.2	7325.9	7328.4	7313.4	7340.8
5°	7400.6	7335.8	7305.9	7283.5	7293.5	7363.2	7303.4	7325.9	7301.0	7333.3
7.5°	7380.7	7335.8	7305.9	7263.6	7296.0	7378.2	7320.9	7323.4	7310.9	7340.8
10°	7368.2	7335.8	7298.5	7303.4	7340.8	7410.6	7365.7	7390.6	7373.2	7390.6
12.5°	7398.1	7363.2	7343.3	7343.3	7375.7	7455.4	7433.0	7455.4	7447.9	7462.9
15°	7116.6	7149.0	7338.3	7423.0	7487.8	7567.5	7557.5	7579.9	7584.9	7607.3
17.5°	6003.2	5970.8	5955.8	6391.8	7550.0	7796.6	7789.2	7786.7	7761.8	7744.3
20°	6150.1	6137.7	6120.2	6152.6	6282.2	7916.2	7966.0	7659.6	7570.0	7562.5
22.5°	6384.3	6364.4	6299.6	6302.1	6341.9	6882.5	7719.4	7440.4	7410.6	7393.1
25°	6498.9	6459.0	6406.7	6391.8	6404.2	6304.6	6894.9	7226.2	7079.3	7012.0
27.5°	6297.1	6299.6	6257.2	6297.1	6249.8	5801.4	5549.8	6807.7	6802.8	6772.9
30°	6145.2	6137.7	6087.9	6137.7	5811.4	5310.7	5203.6	6349.4	6297.1	6257.2
32.5°	5679.3	5684.3	5828.8	6023.1	5487.5	5091.5	4767.7	5671.9	6167.6	6145.2
35°	4062.7	4072.7	4585.8	5544.8	4996.8	4655.6	4630.7	4902.2	5963.3	5973.3
37.5°	3910.8	3910.8	3898.3	4055.3	4610.7	4478.7	4528.5	4501.1	5462.6	5487.5
40°	3801.2	3778.8	3761.3	3514.7	3205.8	4354.2	4389.0	4264.5	5163.7	5168.7
42.5°	3669.2	3644.2	3649.2	3193.4	2869.6	4045.3	3948.1	3781.2	4665.5	4670.5
45°	3427.5	3469.9	3499.8	2794.8	2769.9	2889.5	3641.8	3537.1	4329.3	4421.4
47.5°	1743.7	1781.0	2732.6	2570.7	2627.9	2568.2	3076.3	3078.8	3601.9	3908.3
50°	1581.7	1571.8	1574.3	1499.5	2426.2	2077.4	2224.4	2822.2	2884.5	3322.9
52.5°	1474.6	1472.1	1320.2	1173.2	1524.5	1828.4	1614.1	2042.6	2144.7	2814.8
55°	1091.0	1170.7	1041.2	1103.5	954.0	1464.7	1457.2	1843.3	1878.2	2256.8
57.5°	10.0	12.5	29.9	839.4	660.1	732.3	1006.3	1257.9	1320.2	1758.6
60°	2.5	5.0	12.5	24.9	428.4	450.9	672.6	727.4	819.5	1048.7
62.5°	0.0	0.0	5.0	12.5	22.4	184.3	214.2	234.1	361.2	535.6
65°	0.0	0.0	2.5	7.5	12.5	29.9	52.3	109.6	156.9	194.3
67.5°	0.0	0.0	2.5	5.0	10.0	14.9	29.9	42.3	67.3	114.6
70°	0.0	0.0	2.5	5.0	7.5	12.5	19.9	29.9	39.9	57.3
72.5°	0.0	0.0	2.5	5.0	5.0	14.9	14.9	22.4	29.9	37.4
75°	0.0	0.0	2.5	2.5	5.0	10.0	14.9	17.4	19.9	29.9
77.5°	0.0	0.0	2.5	5.0	7.5	10.0	12.5	19.9	17.4	17.4
80°	0.0	0.0	2.5	7.5	7.5	12.5	14.9	19.9	12.5	12.5
82.5°	0.0	0.0	2.5	10.0	7.5	24.9	24.9	27.4	10.0	10.0
85°	0.0	0.0	7.5	5.0	14.9	24.9	22.4	14.9	12.5	7.5
87.5°	0.0	0.0	2.5	2.5	5.0	7.5	17.4	14.9	5.0	5.0
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°
7313.4	0°	7313.4	7313.4	7313.4	7313.4	7313.4	7313.4	7313.4	7313.4	7313.4
7268.6	2.5°	7368.2	7335.8	7403.1	7395.6	7363.2	7348.3	7330.8	7315.9	7206.3
7273.5	5°	7370.7	7320.9	7403.1	7388.1	7383.2	7358.2	7343.3	7365.7	7266.1
7293.5	7.5°	7370.7	7320.9	7410.6	7415.5	7408.1	7388.1	7385.6	7400.6	7318.4
7328.4	10°	7420.5	7400.6	7475.3	7482.8	7472.8	7467.8	7455.4	7445.4	7358.2
7447.9	12.5°	7525.1	7485.3	7570.0	7592.4	7584.9	7597.4	7567.5	7582.4	7492.8
7570.0	15°	7652.2	7654.7	7719.4	7769.2	7764.3	7804.1	7759.3	7799.1	7734.4
7709.5	17.5°	7846.5	7873.9	7966.0	8040.8	8068.2	8098.1	8068.2	8080.6	7988.5
7555.0	20°	7642.2	7744.3	8187.7	8324.7	8382.0	8409.4	8359.6	8374.5	8282.4
7365.7	22.5°	7457.9	7589.9	7983.5	8411.9	8588.8	8643.6	8626.1	8623.6	8588.8
6992.1	25°	7186.4	7452.9	7629.8	8083.1	8638.6	8738.2	8748.2	8745.7	8693.4
6762.9	27.5°	6852.6	6912.4	7370.7	7647.2	8289.9	8668.5	8653.5	8581.3	8511.5
6287.1	30°	6426.6	6698.1	6904.9	7345.8	7839.0	8454.3	8454.3	8399.5	8327.2
6117.8	32.5°	6209.9	6561.1	6752.9	6912.4	7333.3	8215.1	8314.8	8257.5	8200.2
5985.7	35°	6095.3	6147.6	6596.0	6740.5	7096.7	7754.3	8157.8	8100.5	8058.2
5634.5	37.5°	5843.7	5965.8	6175.0	6561.1	6670.7	7378.2	7948.6	7918.7	7868.9
5178.7	40°	5283.3	5609.6	5930.9	6297.1	6411.7	6894.9	7694.5	7707.0	7639.7
4692.9	42.5°	4952.0	5173.7	5676.9	5923.5	6232.3	6583.6	7447.9	7467.8	7420.5
4446.3	45°	4563.4	4810.0	5163.7	5612.1	6033.1	6155.1	7012.0	7221.2	7181.4
3955.6	47.5°	4207.2	4406.5	4839.9	5293.3	5759.1	5741.6	6511.3	6904.9	6850.1
3579.5	50°	3701.5	4050.3	4254.5	4670.5	5365.5	5412.8	5978.3	6533.7	6488.9
3041.4	52.5°	3121.2	3559.6	3950.6	4331.7	4966.9	5079.0	5482.6	6155.1	6125.2
2324.0	55°	2727.6	3046.4	3487.3	3793.7	4483.7	4782.6	5111.4	5793.9	5779.0
1910.6	57.5°	1940.4	2555.7	2919.4	3347.8	3711.5	4252.0	4496.1	5059.1	4919.6
1058.7	60°	1315.2	1604.2	2047.6	2508.4	2752.5	3293.0	3519.7	3970.6	3933.2
632.7	62.5°	695.0	961.5	1277.9	1509.5	1686.4	2212.0	2306.6	2792.3	2779.9
254.1	65°	306.4	406.0	692.5	812.0	993.9	1238.0	1320.2	1494.6	1452.2
124.5	67.5°	159.4	241.6	391.1	480.8	605.3	697.5	764.7	819.5	854.4
82.2	70°	97.1	176.9	241.6	333.8	416.0	490.7	543.0	617.8	662.6
42.3	72.5°	72.2	112.1	166.9	256.6	301.4	388.6	440.9	495.7	535.6
34.9	75°	39.9	74.7	134.5	201.8	241.6	316.3	363.7	401.0	413.5
19.9	77.5°	24.9	57.3	112.1	156.9	189.3	256.6	244.1	279.0	308.9
14.9	80°	17.4	42.3	87.2	129.5	132.0	164.4	194.3	224.2	244.1
10.0	82.5°	12.5	34.9	64.8	99.6	87.2	127.0	151.9	174.4	127.0
7.5	85°	10.0	24.9	32.4	59.8	49.8	89.7	77.2	74.7	49.8
5.0	87.5°	7.5	12.5	22.4	27.4	19.9	19.9	24.9	29.9	24.9
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
7313.4
7131.6
7181.4
7223.7
7286.0
7413.0
7627.3
7908.7
8217.6
8476.7
8613.7
8456.7
8299.8
8152.9
7998.4
7819.1
7624.8
7415.5
7186.4
6889.9
6496.4
6145.2
5796.4
4904.7
3935.7
2782.4
1434.8
854.4
665.1
543.0
406.0
313.9
246.6
92.2
49.8
24.9
0.0

(END OF REPORT)