

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: P637151

Luminaire Tested: **IFLD-S-SA3D-750-U-33-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637151
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3D-750-U-33-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 3 distribution lens and Visor
Light Source: (48) 5000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23709.2 lumens
Efficiency: N/A
Efficacy: 128.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

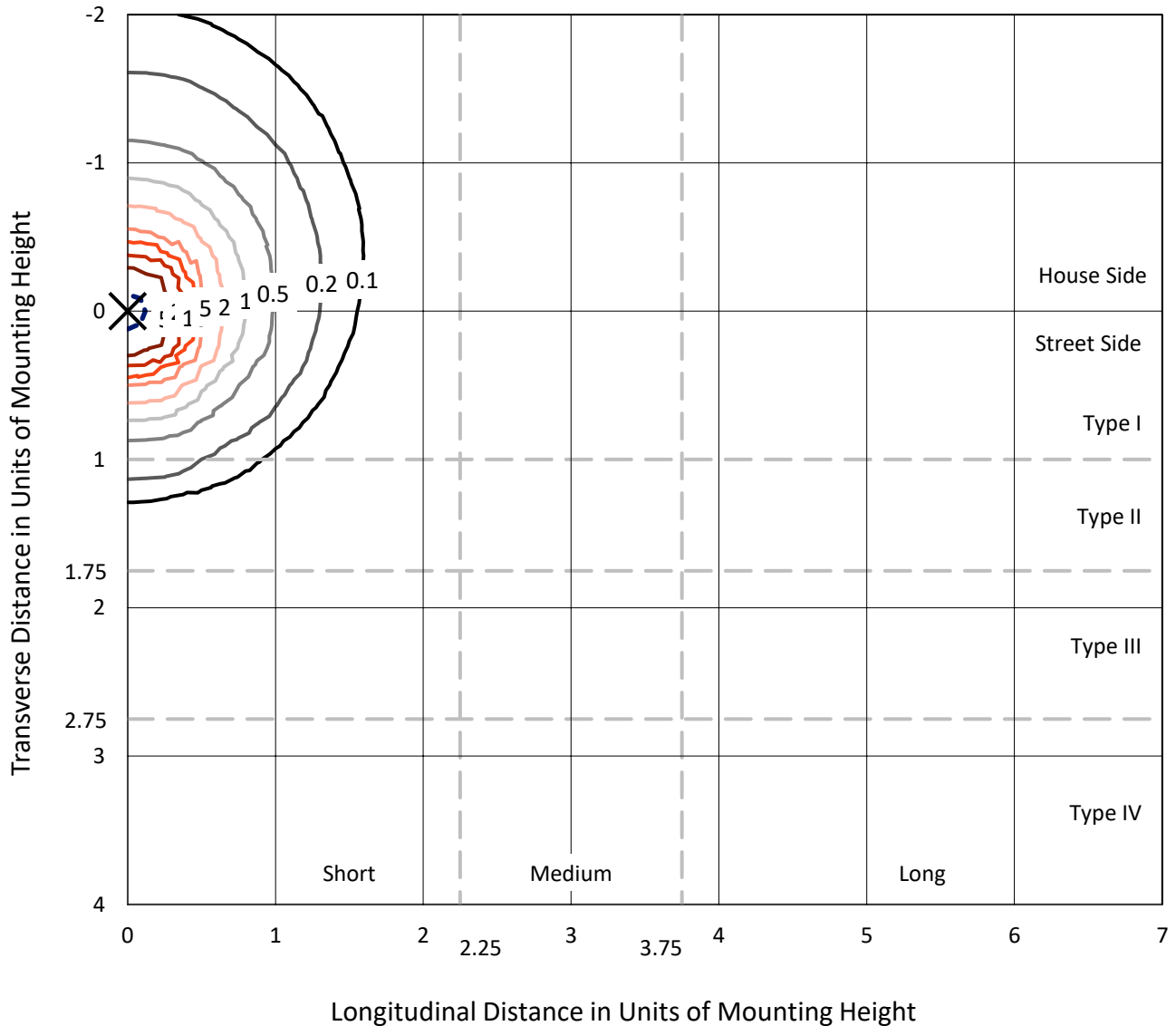
Input Watts (W): 184.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

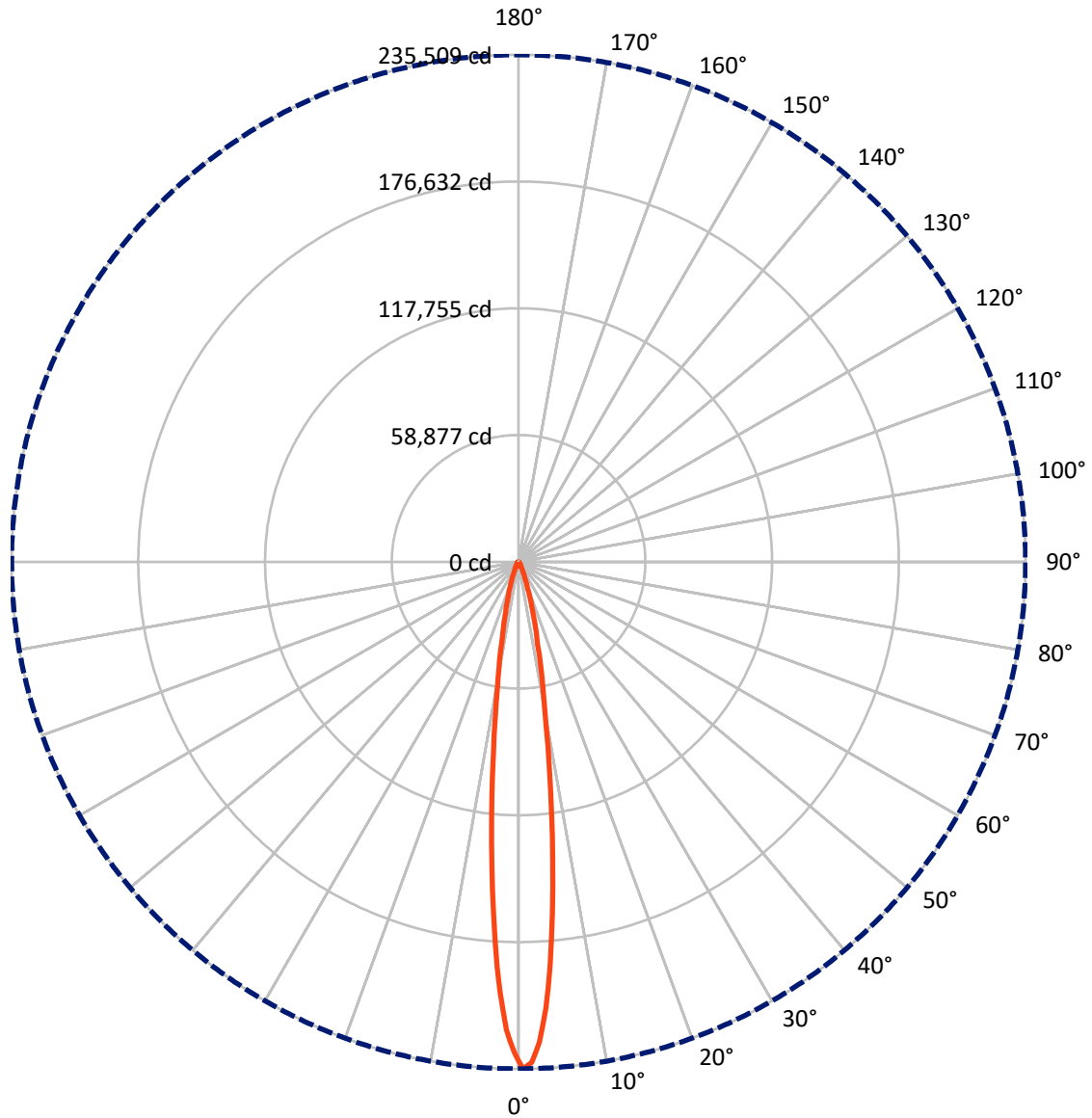
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 588.8 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral - - - Horizontal Cone Through 0-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12143.4	0.0	12143.4
	% Fixture	51.2	0.0	51.2
Street Side	Lumens	11565.8	0.0	11565.8
	% Fixture	48.8	0.0	48.8
Total	Lumens	23709.2	0.0	23709.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	11969.1	50.5
10°-20°	7662.6	32.3
20°-30°	2303.2	9.7
30°-40°	749.9	3.2
40°-50°	436.3	1.8
50°-60°	289.8	1.2
60°-70°	174.5	0.7
70°-80°	89.7	0.4
80°-90°	34.1	0.1
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°	23709.2	100.0
0°-180°	23709.2	100.0

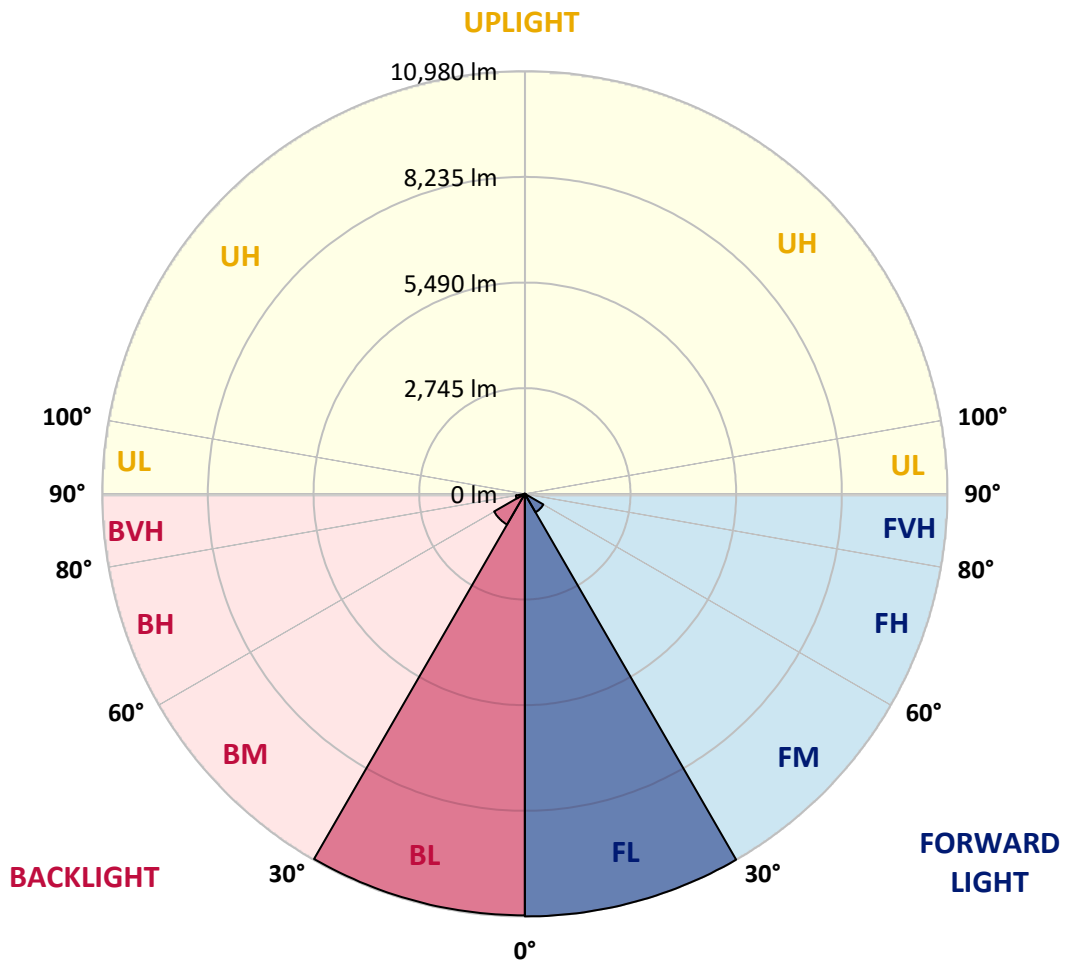


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	10980.5	46.3			
FM (30°-60°)	554.1	2.3			
FH (60°-80°)	26.1	0.1			G0/660
FVH (80°-90°)	5.1	0.0			G0/10
BL (0°-30°)	10954.4	46.2	B5		
BM (30°-60°)	922.0	3.9	B1/1000		
BH (60°-80°)	238.0	1.0	B1/500		G0/660
BVH (80°-90°)	28.9	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G1
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	235509.0	235509.0	235509.0	235509.0	235509.0	235509.0	235509.0	235509.0	235509.0	235509.0
1°	232689.2	231979.0	230145.6	231449.7	232596.2	232263.1	232239.8	232115.9	231942.9	233301.2
2°	223387.7	222928.0	220216.6	221334.8	222964.2	221776.3	222520.0	221866.7	221879.6	223501.3
3°	207707.9	207958.4	203633.0	205665.3	207930.0	205050.7	205944.2	207622.7	205864.1	205334.8
4°	187328.3	185154.0	182791.2	184857.1	185443.3	183767.3	185414.9	187470.4	185027.5	185136.0
5°	164061.8	162455.6	159658.9	160934.6	159480.7	160010.1	162478.8	163325.8	161621.5	159475.6
6°	140139.3	138997.9	135501.4	137340.0	136823.6	136524.0	139640.9	137058.6	137988.2	136689.3
7°	116567.9	114435.0	112717.7	114478.9	114592.5	113691.3	117737.7	117267.8	115576.3	115183.8
8°	96578.3	94450.5	92996.6	94308.5	95165.8	93750.7	95653.8	96903.7	95581.5	95700.3
9°	77895.3	77520.9	75498.9	77213.6	78145.8	76630.0	78737.1	79189.0	77952.1	78553.8
10°	63958.6	63522.2	61908.2	62602.9	64147.1	62339.5	64361.4	64508.6	63522.2	63803.7
12.5°	39524.8	39349.2	39305.3	39406.0	39385.4	39705.6	40222.0	39633.3	39555.8	38582.3
15°	25546.8	25807.6	25539.0	26055.5	26130.4	26432.5	26117.5	25642.3	24735.9	24286.6
17.5°	15943.2	16276.3	16735.9	17492.6	18249.2	18337.0	17918.6	17360.9	16921.9	16441.6
20°	9172.4	9335.0	9265.3	10171.7	12129.1	12661.1	12121.4	11535.2	11005.8	10520.3
22.5°	5699.2	5639.8	5748.2	6052.9	6690.8	8335.7	7894.1	7307.9	6923.2	6522.9
25°	3493.9	3558.4	3517.1	3685.0	3971.6	4668.8	4769.5	4516.5	4320.2	4113.6
27.5°	2249.2	2249.2	2267.3	2360.2	2556.5	2533.2	3070.4	2874.1	2768.2	2667.5
30°	1562.3	1567.5	1567.5	1621.7	1665.6	1588.1	1727.6	1980.6	1931.6	1854.1
32.5°	1159.5	1174.9	1187.9	1216.3	1180.1	1097.5	1131.1	1425.4	1397.0	1368.6
35°	883.1	896.1	927.0	942.5	890.9	839.2	808.3	1048.4	1061.3	1053.6
37.5°	643.0	650.7	707.6	766.9	707.6	661.1	643.0	805.7	867.7	859.9
40°	493.2	495.8	506.1	573.3	573.3	537.1	542.3	601.7	710.1	710.1
42.5°	423.5	423.5	433.8	423.5	426.1	464.8	477.7	485.5	601.7	601.7
45°	366.7	366.7	371.9	346.0	320.2	400.3	410.6	413.2	506.1	519.0
47.5°	307.3	307.3	317.6	284.1	271.1	317.6	346.0	353.8	436.4	446.7
50°	227.2	229.8	260.8	232.4	240.2	245.3	299.5	304.7	369.3	392.5
52.5°	152.4	152.4	157.5	180.8	209.2	201.4	242.7	260.8	294.4	325.4
55°	124.0	124.0	121.4	116.2	154.9	167.8	178.2	216.9	240.2	278.9
57.5°	85.2	90.4	82.6	95.5	100.7	126.5	134.3	170.4	183.3	235.0
60°	10.3	12.9	18.1	69.7	67.1	85.2	100.7	134.3	149.8	180.8
62.5°	2.6	2.6	5.2	12.9	46.5	56.8	80.1	93.0	108.5	139.4
65°	0.0	0.0	2.6	5.2	10.3	31.0	41.3	54.2	77.5	98.1
67.5°	0.0	0.0	2.6	5.2	5.2	12.9	20.7	33.6	41.3	72.3
70°	0.0	0.0	2.6	5.2	5.2	10.3	12.9	15.5	28.4	38.7
72.5°	0.0	0.0	2.6	5.2	7.7	10.3	12.9	12.9	12.9	25.8
75°	0.0	0.0	2.6	5.2	7.7	10.3	12.9	12.9	10.3	10.3
77.5°	0.0	0.0	2.6	5.2	10.3	12.9	15.5	12.9	7.7	7.7
80°	0.0	0.0	2.6	7.7	12.9	18.1	20.7	15.5	7.7	5.2
82.5°	0.0	0.0	5.2	10.3	15.5	20.7	28.4	23.2	10.3	5.2
85°	0.0	0.0	2.6	7.7	15.5	20.7	41.3	28.4	12.9	2.6
87.5°	0.0	0.0	0.0	2.6	2.6	5.2	15.5	10.3	5.2	2.6
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°
235509.0	0°	235509.0	235509.0	235509.0	235509.0	235509.0	235509.0	235509.0	235509.0
231733.7	1°	233352.8	233515.5	232983.5	233807.3	233518.1	231824.1	231263.7	230600.1
222548.4	2°	221866.7	222695.6	222736.9	223651.1	223638.2	221662.7	221050.7	222179.2
206409.0	3°	205784.1	206749.9	205879.6	207503.9	207015.9	204619.5	203997.1	205278.0
185993.3	4°	185438.1	185254.8	184955.2	184030.7	185169.5	183534.9	182303.2	184041.1
162321.3	5°	161995.9	161587.9	161004.3	160730.6	161577.6	160531.7	157998.5	160536.9
139039.2	6°	139209.6	137453.7	137368.4	137216.1	137301.3	134373.0	134548.6	136438.8
113833.3	7°	115036.6	115359.4	114700.9	115757.1	114951.4	112968.2	112203.8	114194.8
96221.9	8°	95550.5	95142.5	94639.0	96216.8	94819.8	93518.3	92627.4	94200.0
78651.9	9°	78504.7	77799.8	77288.5	77208.4	77425.3	74982.5	75478.3	76668.7
63958.6	10°	63981.8	62825.0	63106.4	63181.3	62943.7	61342.7	61358.2	61768.8
39227.8	12.5°	39088.4	38520.3	38662.3	38739.8	39222.7	38659.7	37864.4	37291.1
24733.3	15°	24568.1	24160.1	24994.2	25554.5	25440.9	24939.9	24565.5	24046.4
16441.6	17.5°	16289.2	16823.7	16826.3	17337.6	17389.3	16888.3	16599.1	16131.7
10693.3	20°	10654.6	10876.7	11338.9	11700.4	11909.6	11527.4	11181.4	10861.2
6667.5	22.5°	6667.5	7054.9	7344.1	7814.1	8005.2	7726.3	7480.9	7220.1
4162.7	25°	4093.0	4369.3	4609.4	5017.4	5278.2	5144.0	4919.3	4736.0
2688.2	27.5°	2729.5	2845.7	2964.5	3246.0	3517.1	3442.2	3351.8	3240.8
1895.4	30°	1923.8	1934.1	2060.7	2218.2	2399.0	2445.4	2404.1	2347.3
1391.9	32.5°	1417.7	1459.0	1518.4	1616.5	1737.9	1848.9	1828.3	1802.5
1063.9	35°	1094.9	1156.9	1205.9	1280.8	1345.4	1451.3	1469.3	1461.6
875.4	37.5°	893.5	947.7	996.8	1040.7	1094.9	1167.2	1224.0	1226.6
723.0	40°	741.1	790.2	854.7	888.3	927.0	981.3	1051.0	1056.2
612.0	42.5°	624.9	671.4	736.0	777.3	805.7	857.3	927.0	937.4
524.2	45°	537.1	565.5	632.7	681.7	710.1	743.7	818.6	828.9
451.9	47.5°	467.4	495.8	537.1	606.8	632.7	663.7	723.0	741.1
400.3	50°	410.6	439.0	475.1	537.1	575.9	601.7	650.7	676.6
348.6	52.5°	364.1	392.5	431.2	480.3	524.2	547.4	593.9	627.5
284.1	55°	304.7	353.8	382.2	426.1	485.5	506.1	542.3	586.2
247.9	57.5°	266.0	307.3	348.6	384.8	444.2	470.0	506.1	547.4
196.3	60°	224.7	263.4	312.5	343.4	400.3	433.8	472.6	511.3
149.8	62.5°	178.2	229.8	263.4	307.3	361.5	405.4	436.4	475.1
116.2	65°	131.7	188.5	227.2	273.7	325.4	371.9	397.7	439.0
82.6	67.5°	95.5	147.2	193.7	237.6	286.6	333.1	358.9	395.1
51.6	70°	74.9	108.5	160.1	198.8	250.5	289.2	317.6	340.9
33.6	72.5°	43.9	82.6	129.1	173.0	219.5	245.3	266.0	286.6
15.5	75°	28.4	64.6	105.9	144.6	178.2	201.4	219.5	237.6
7.7	77.5°	18.1	46.5	85.2	121.4	136.9	165.3	180.8	191.1
5.2	80°	10.3	36.2	74.9	98.1	111.0	129.1	144.6	157.5
5.2	82.5°	7.7	31.0	62.0	82.6	82.6	103.3	111.0	111.0
2.6	85°	5.2	25.8	49.1	77.5	62.0	77.5	72.3	72.3
2.6	87.5°	5.2	18.1	23.2	33.6	28.4	33.6	33.6	38.7
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
235509.0
227971.3
217399.3
199589.1
177750.6
153848.7
130959.1
108779.7
89709.4
72950.2
58974.7
36942.5
23780.5
16015.5
10750.1
7080.7
4630.1
3176.2
2308.6
1781.8
1435.8
1208.5
1048.4
929.6
826.3
743.7
679.1
627.5
588.8
550.0
521.6
493.2
446.7
397.7
348.6
291.8
237.6
185.9
142.0
103.3
69.7
38.7
0.0

(END OF REPORT)