

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: P637086

Luminaire Tested: **IFLD-S-SA2B-735-U-33-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637086
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2B-735-U-33-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 3 distribution lens and Visor
Light Source: (32) 3500K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11199.2 lumens
Efficiency: N/A
Efficacy: 135.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

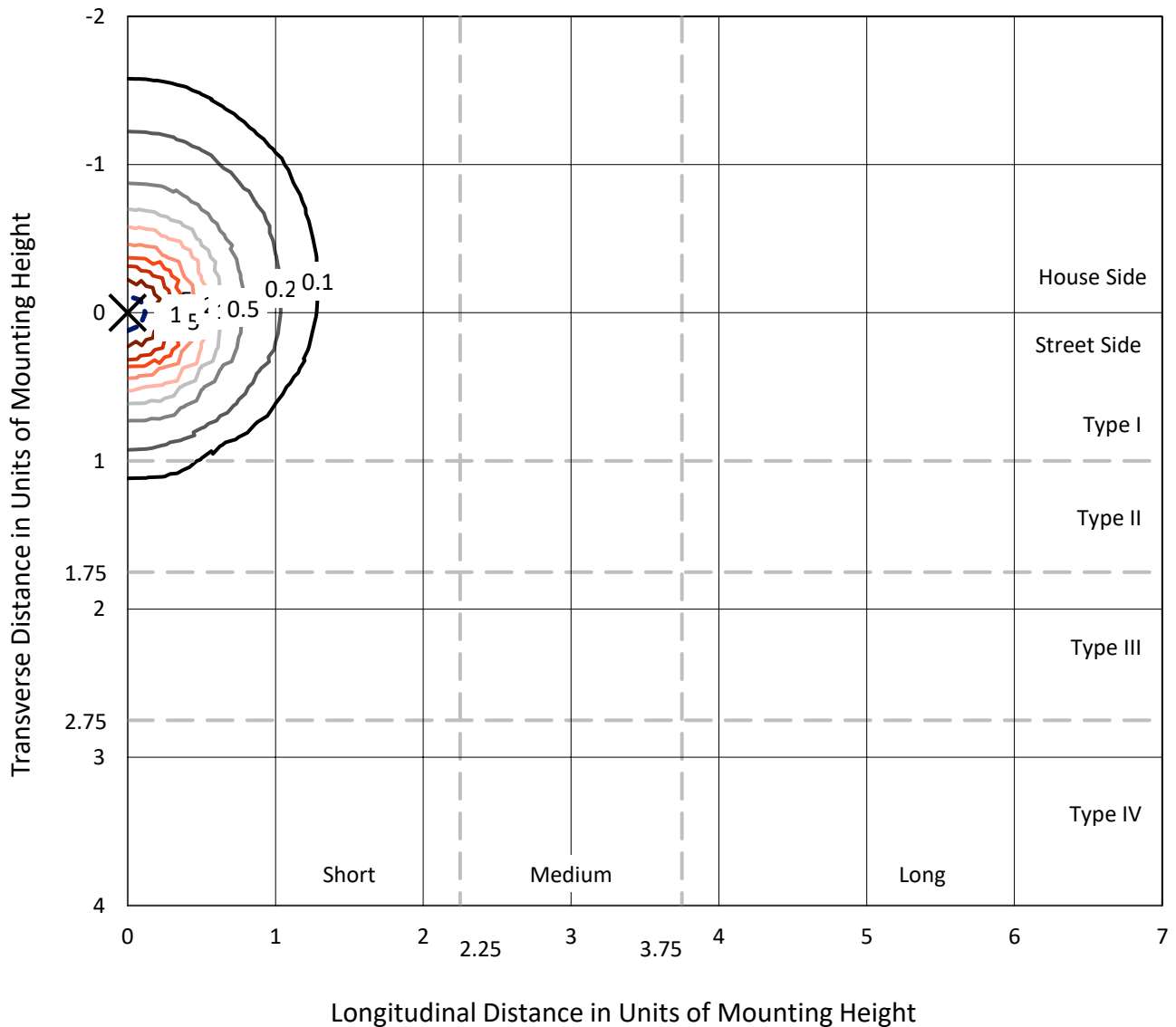
Input Watts (W): 82.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

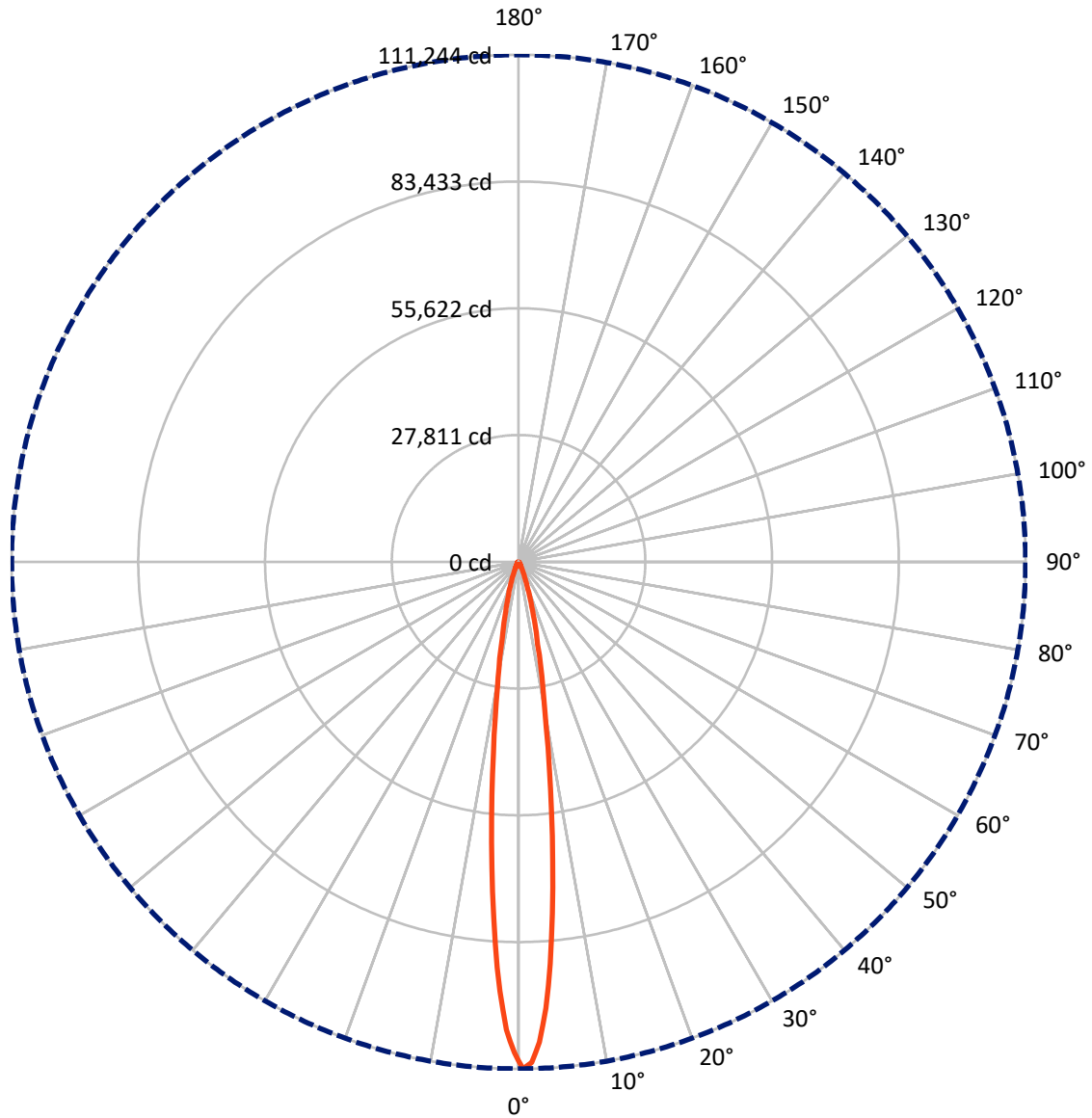
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 278.1 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	5736.0	0.0	5736.0
	% Fixture	51.2	0.0	51.2
Street Side	Lumens	5463.2	0.0	5463.2
	% Fixture	48.8	0.0	48.8
Total	Lumens	11199.2	0.0	11199.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5653.7	50.5
10°-20°	3619.5	32.3
20°-30°	1087.9	9.7
30°-40°	354.2	3.2
40°-50°	206.1	1.8
50°-60°	136.9	1.2
60°-70°	82.4	0.7
70°-80°	42.4	0.4
80°-90°	16.1	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°	11199.2	100.0
0°-180°	11199.2	100.0

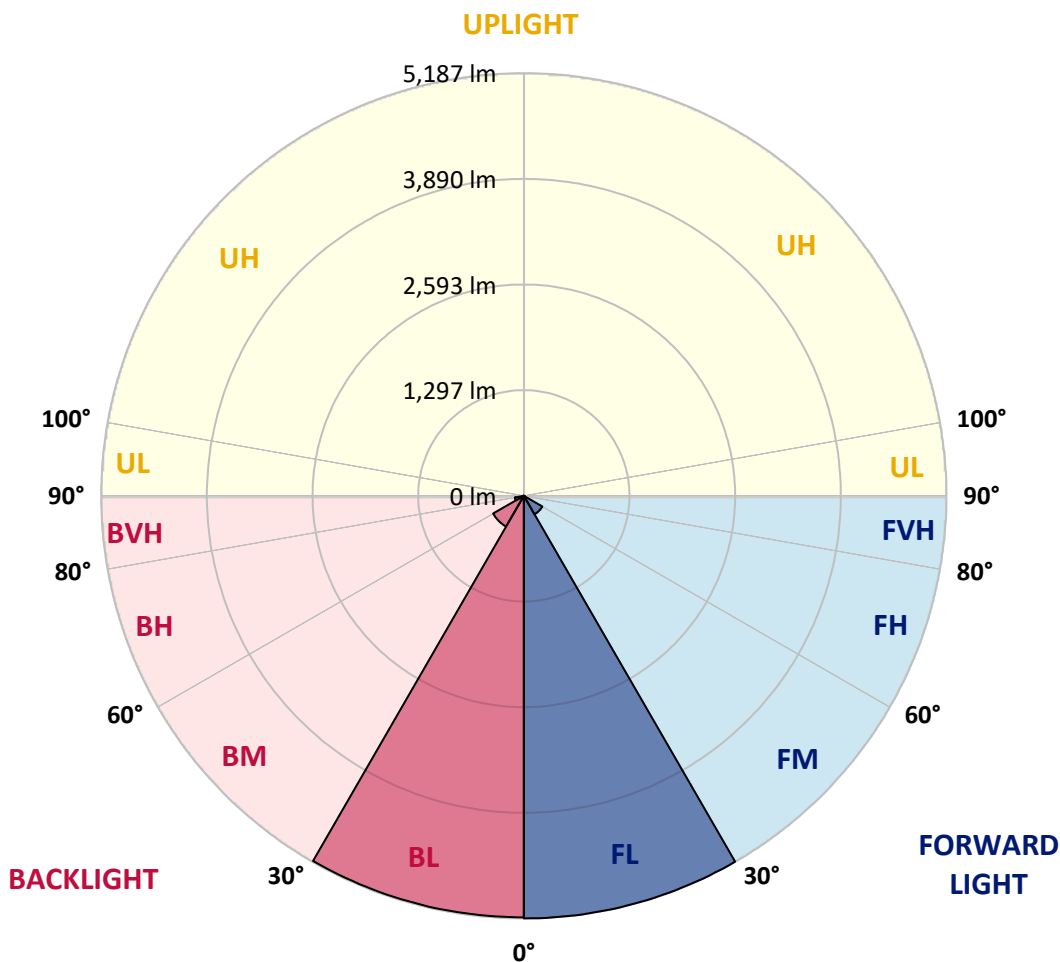


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5186.7	46.3			
FM (30°-60°)	261.7	2.3			
FH (60°-80°)	12.3	0.1			G0/660
FVH (80°-90°)	2.4	0.0			G0/10
BL (0°-30°)	5174.4	46.2	B5		
BM (30°-60°)	435.5	3.9	B1/1000		
BH (60°-80°)	112.4	1.0	B1/500		G0/660
BVH (80°-90°)	13.7	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°	111244.4	111244.4	111244.4	111244.4	111244.4	111244.4	111244.4	111244.4	111244.4	111244.4
1°	109912.4	109577.0	108710.9	109326.9	109868.5	109711.1	109700.2	109641.6	109559.9	110201.5
2°	105518.8	105301.7	104020.9	104549.1	105318.8	104757.7	105109.0	104800.3	104806.4	105572.5
3°	98112.3	98230.7	96187.5	97147.5	98217.2	96857.2	97279.2	98072.1	97241.4	96991.4
4°	88485.9	87458.9	86342.8	87318.6	87595.5	86803.8	87582.1	88553.0	87399.1	87450.3
5°	77495.8	76737.1	75416.0	76018.6	75331.9	75581.9	76748.0	77148.1	76343.1	75329.4
6°	66195.8	65656.7	64005.1	64873.6	64629.6	64488.1	65960.4	64740.6	65179.7	64566.2
7°	55061.7	54054.2	53243.0	54074.9	54128.6	53702.9	55614.3	55392.3	54593.3	54407.9
8°	45619.5	44614.4	43927.6	44547.3	44952.2	44283.8	45182.8	45773.2	45148.6	45204.7
9°	36794.4	36617.5	35662.5	36472.4	36912.7	36196.7	37192.1	37405.5	36821.2	37105.5
10°	30211.3	30005.2	29242.8	29570.9	30300.3	29446.5	30401.6	30471.1	30005.2	30138.1
12.5°	18669.8	18586.9	18566.1	18613.7	18604.0	18755.2	18999.2	18721.1	18684.5	18224.6
15°	12067.2	12190.4	12063.5	12307.5	12342.9	12485.6	12336.8	12112.3	11684.2	11472.0
17.5°	7530.9	7688.2	7905.3	8262.7	8620.1	8661.6	8464.0	8200.5	7993.2	7766.3
20°	4332.6	4409.5	4376.5	4804.7	5729.3	5980.5	5725.6	5448.7	5198.7	4969.4
22.5°	2692.0	2664.0	2715.2	2859.1	3160.4	3937.4	3728.8	3452.0	3270.2	3081.1
25°	1650.4	1680.8	1661.3	1740.6	1876.0	2205.3	2252.9	2133.4	2040.7	1943.1
27.5°	1062.4	1062.4	1071.0	1114.9	1207.6	1196.6	1450.3	1357.6	1307.6	1260.0
30°	738.0	740.4	740.4	766.0	786.8	750.2	816.0	935.6	912.4	875.8
32.5°	547.7	555.0	561.1	574.5	557.4	518.4	534.3	673.3	659.9	646.5
35°	417.2	423.3	437.9	445.2	420.8	396.4	381.8	495.2	501.3	497.7
37.5°	303.7	307.4	334.2	362.3	334.2	312.3	303.7	380.6	409.8	406.2
40°	233.0	234.2	239.1	270.8	270.8	253.7	256.2	284.2	335.4	335.4
42.5°	200.0	200.0	204.9	200.0	201.3	219.6	225.7	229.3	284.2	284.2
45°	173.2	173.2	175.6	163.4	151.3	189.1	193.9	195.2	239.1	245.2
47.5°	145.2	145.2	150.0	134.2	128.1	150.0	163.4	167.1	206.1	211.0
50°	107.3	108.6	123.2	109.8	113.4	115.9	141.5	143.9	174.4	185.4
52.5°	72.0	72.0	74.4	85.4	98.8	95.1	114.7	123.2	139.1	153.7
55°	58.5	58.5	57.3	54.9	73.2	79.3	84.2	102.5	113.4	131.7
57.5°	40.3	42.7	39.0	45.1	47.6	59.8	63.4	80.5	86.6	111.0
60°	4.9	6.1	8.5	32.9	31.7	40.3	47.6	63.4	70.7	85.4
62.5°	1.2	1.2	2.4	6.1	22.0	26.8	37.8	43.9	51.2	65.9
65°	0.0	0.0	1.2	2.4	4.9	14.6	19.5	25.6	36.6	46.4
67.5°	0.0	0.0	1.2	2.4	2.4	6.1	9.8	15.9	19.5	34.2
70°	0.0	0.0	1.2	2.4	2.4	4.9	6.1	7.3	13.4	18.3
72.5°	0.0	0.0	1.2	2.4	3.7	4.9	6.1	6.1	6.1	12.2
75°	0.0	0.0	1.2	2.4	3.7	4.9	6.1	6.1	4.9	4.9
77.5°	0.0	0.0	1.2	2.4	4.9	6.1	7.3	6.1	3.7	3.7
80°	0.0	0.0	1.2	3.7	6.1	8.5	9.8	7.3	3.7	2.4
82.5°	0.0	0.0	2.4	4.9	7.3	9.8	13.4	11.0	4.9	2.4
85°	0.0	0.0	1.2	3.7	7.3	9.8	19.5	13.4	6.1	1.2
87.5°	0.0	0.0	0.0	1.2	1.2	2.4	7.3	4.9	2.4	1.2
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°
111244.4	0°	111244.4	111244.4	111244.4	111244.4	111244.4	111244.4	111244.4	111244.4
109461.1	1°	110225.9	110302.7	110051.5	110440.6	110304.0	109503.8	109239.1	108925.6
105122.4	2°	104800.3	105191.9	105211.4	105643.2	105637.1	104704.0	104414.9	104947.9
97498.8	3°	97203.6	97659.8	97248.7	98016.0	97785.4	96653.5	96359.5	96964.5
87855.3	4°	87593.0	87506.4	87364.9	86928.3	87466.2	86694.1	86112.2	86933.1
76673.6	5°	76519.9	76327.2	76051.5	75922.3	76322.3	75828.3	74631.7	75830.8
65676.2	6°	65756.7	64927.2	64887.0	64815.0	64855.3	63472.0	63555.0	64447.9
53770.0	7°	54338.4	54490.9	54179.8	54678.7	54298.1	53361.4	53000.3	53940.7
45451.1	8°	45134.0	44941.3	44703.4	45448.7	44788.8	44174.0	43753.2	44496.1
37151.8	9°	37082.3	36749.3	36507.8	36470.0	36572.4	35418.5	35652.7	36215.0
30211.3	10°	30222.3	29675.8	29808.8	29844.2	29731.9	28975.7	28983.0	29176.9
18529.6	12.5°	18463.7	18195.3	18262.4	18299.0	18527.1	18261.2	17885.5	17614.7
11683.0	15°	11604.9	11412.2	11806.2	12070.9	12017.2	11780.6	11603.7	11358.5
7766.3	17.5°	7694.3	7946.8	7948.0	8189.5	8213.9	7977.3	7840.7	7619.9
5051.1	20°	5032.8	5137.7	5356.0	5526.8	5625.6	5445.1	5281.6	5130.4
3149.5	22.5°	3149.5	3332.4	3469.0	3691.0	3781.3	3649.6	3533.7	3410.5
1966.3	25°	1933.3	2063.9	2177.3	2370.0	2493.2	2429.8	2323.7	2237.1
1269.8	27.5°	1289.3	1344.2	1400.3	1533.3	1661.3	1626.0	1583.3	1530.8
895.3	30°	908.7	913.6	973.4	1047.8	1133.2	1155.1	1135.6	1108.8
657.5	32.5°	669.7	689.2	717.2	763.6	820.9	873.4	863.6	851.4
502.5	35°	517.2	546.5	569.6	605.0	635.5	685.5	694.1	690.4
413.5	37.5°	422.0	447.7	470.8	491.6	517.2	551.3	578.2	579.4
341.5	40°	350.1	373.3	403.7	419.6	437.9	463.5	496.4	498.9
289.1	42.5°	295.2	317.1	347.6	367.2	380.6	405.0	437.9	442.8
247.6	45°	253.7	267.1	298.8	322.0	335.4	351.3	386.7	391.5
213.5	47.5°	220.8	234.2	253.7	286.6	298.8	313.5	341.5	350.1
189.1	50°	193.9	207.4	224.4	253.7	272.0	284.2	307.4	319.6
164.7	52.5°	172.0	185.4	203.7	226.9	247.6	258.6	280.5	296.4
134.2	55°	143.9	167.1	180.5	201.3	229.3	239.1	256.2	276.9
117.1	57.5°	125.6	145.2	164.7	181.7	209.8	222.0	239.1	258.6
92.7	60°	106.1	124.4	147.6	162.2	189.1	204.9	223.2	241.5
70.7	62.5°	84.2	108.6	124.4	145.2	170.8	191.5	206.1	224.4
54.9	65°	62.2	89.0	107.3	129.3	153.7	175.6	187.8	207.4
39.0	67.5°	45.1	69.5	91.5	112.2	135.4	157.4	169.5	186.6
24.4	70°	35.4	51.2	75.6	93.9	118.3	136.6	150.0	161.0
15.9	72.5°	20.7	39.0	61.0	81.7	103.7	115.9	125.6	135.4
7.3	75°	13.4	30.5	50.0	68.3	84.2	95.1	103.7	112.2
3.7	77.5°	8.5	22.0	40.3	57.3	64.6	78.1	85.4	90.3
2.4	80°	4.9	17.1	35.4	46.4	52.5	61.0	68.3	74.4
2.4	82.5°	3.7	14.6	29.3	39.0	39.0	48.8	52.5	52.5
1.2	85°	2.4	12.2	23.2	36.6	29.3	36.6	34.2	34.2
1.2	87.5°	2.4	8.5	11.0	15.9	13.4	15.9	15.9	18.3
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
111244.4
107683.9
102690.1
94277.4
83961.8
72671.6
61859.5
51382.9
42374.9
34458.6
27857.1
17450.1
11232.9
7565.0
5077.9
3344.6
2187.1
1500.3
1090.5
841.6
678.2
570.9
495.2
439.1
390.3
351.3
320.8
296.4
278.1
259.8
246.4
233.0
211.0
187.8
164.7
137.8
112.2
87.8
67.1
48.8
32.9
18.3
0.0

(END OF REPORT)