

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: P637169

Luminaire Tested: **IFLD-L-SA8B-750-U-33-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637169
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8B-750-U-33-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 3 distribution lens and Visor
Light Source: (128) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41400.9 lumens
Efficiency: N/A
Efficacy: 129.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

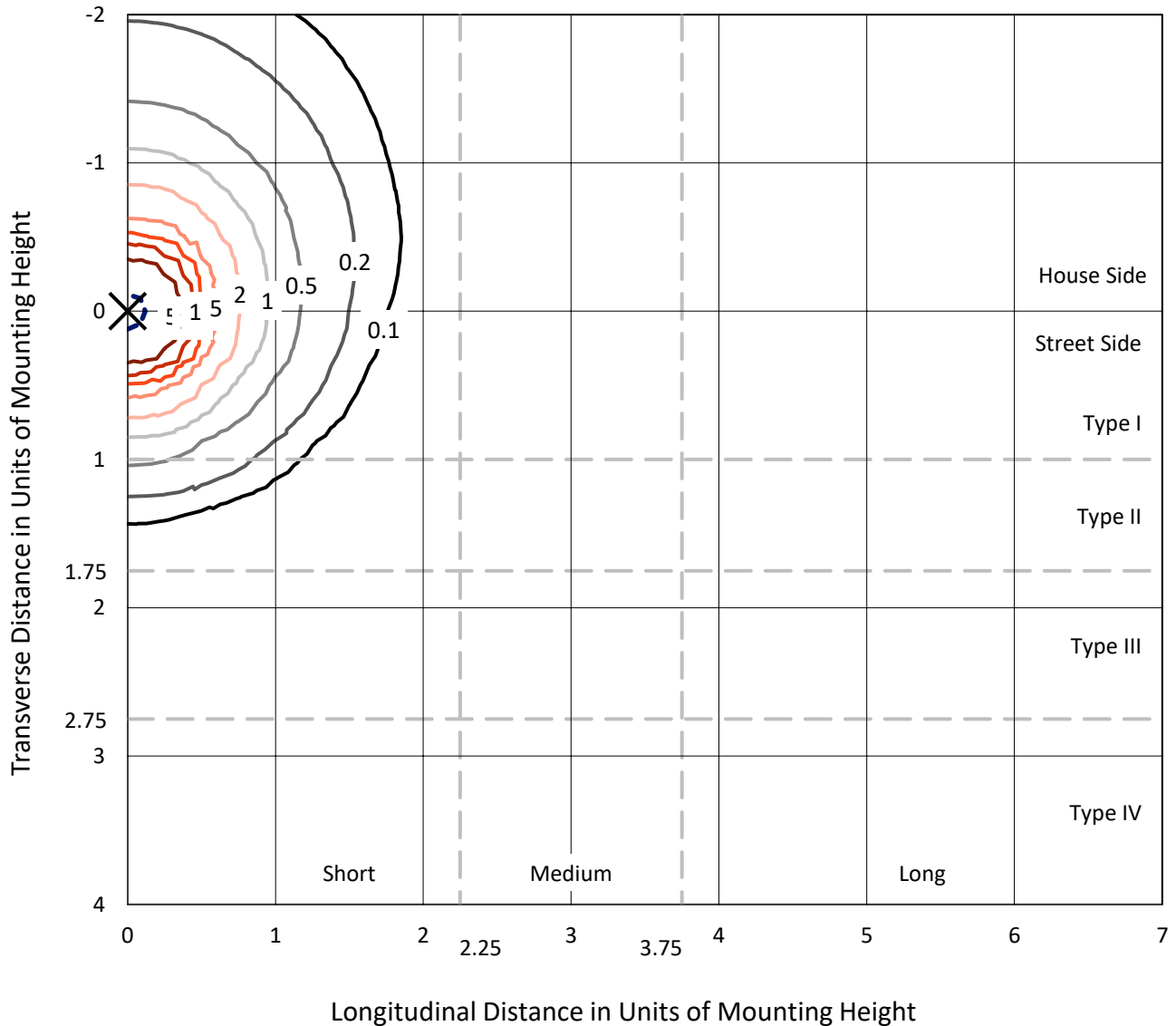
Input Watts (W): 320
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

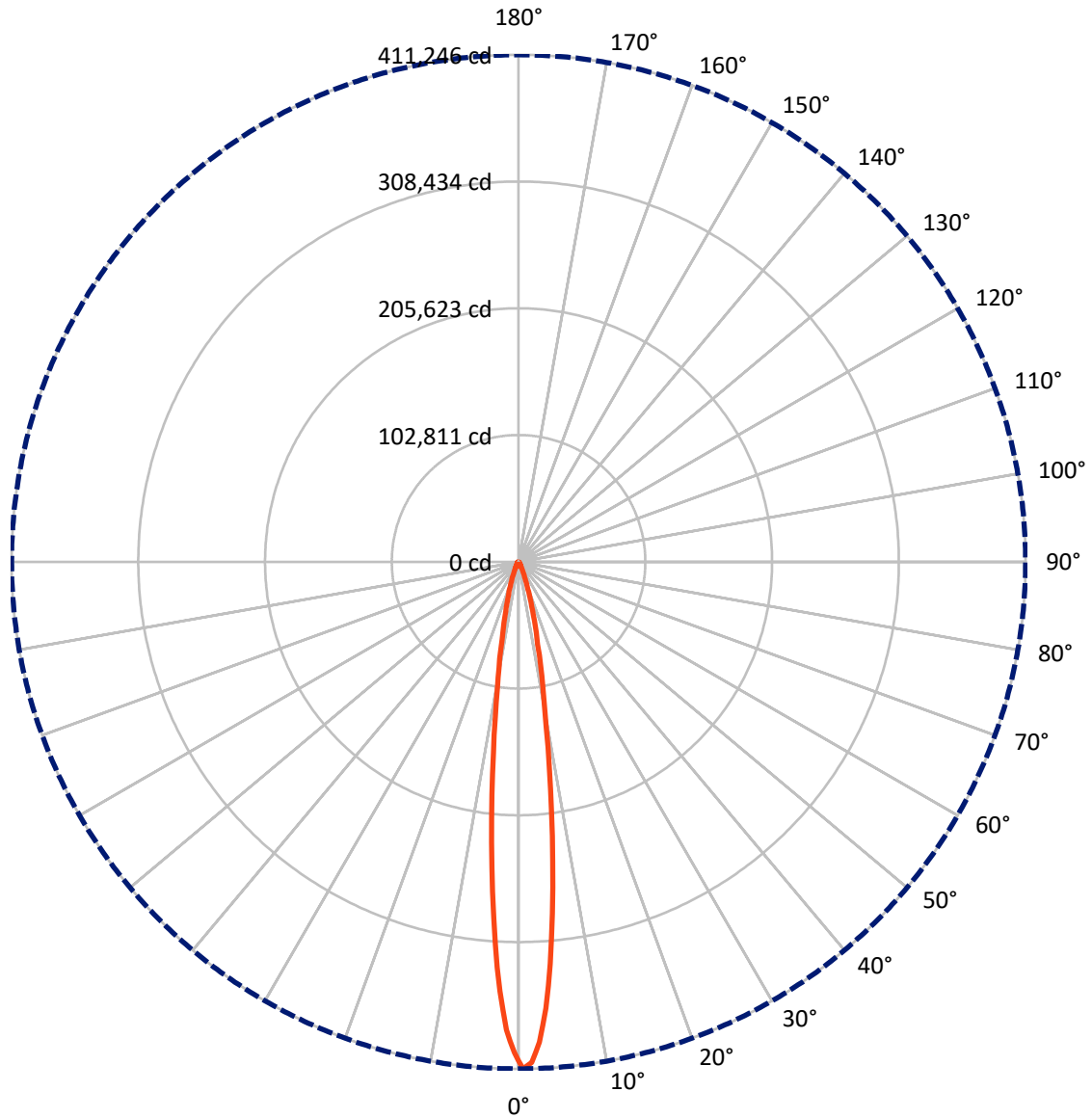
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 1028.1 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	21204.8	0.0	21204.8
	% Fixture	51.2	0.0	51.2
Street Side	Lumens	20196.1	0.0	20196.1
	% Fixture	48.8	0.0	48.8
Total	Lumens	41400.9	0.0	41400.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	20900.4	50.5
10°-20°	13380.4	32.3
20°-30°	4021.9	9.7
30°-40°	1309.5	3.2
40°-50°	761.9	1.8
50°-60°	506.1	1.2
60°-70°	304.6	0.7
70°-80°	156.6	0.4
80°-90°	59.5	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°	41400.9	100.0
0°-180°	41400.9	100.0

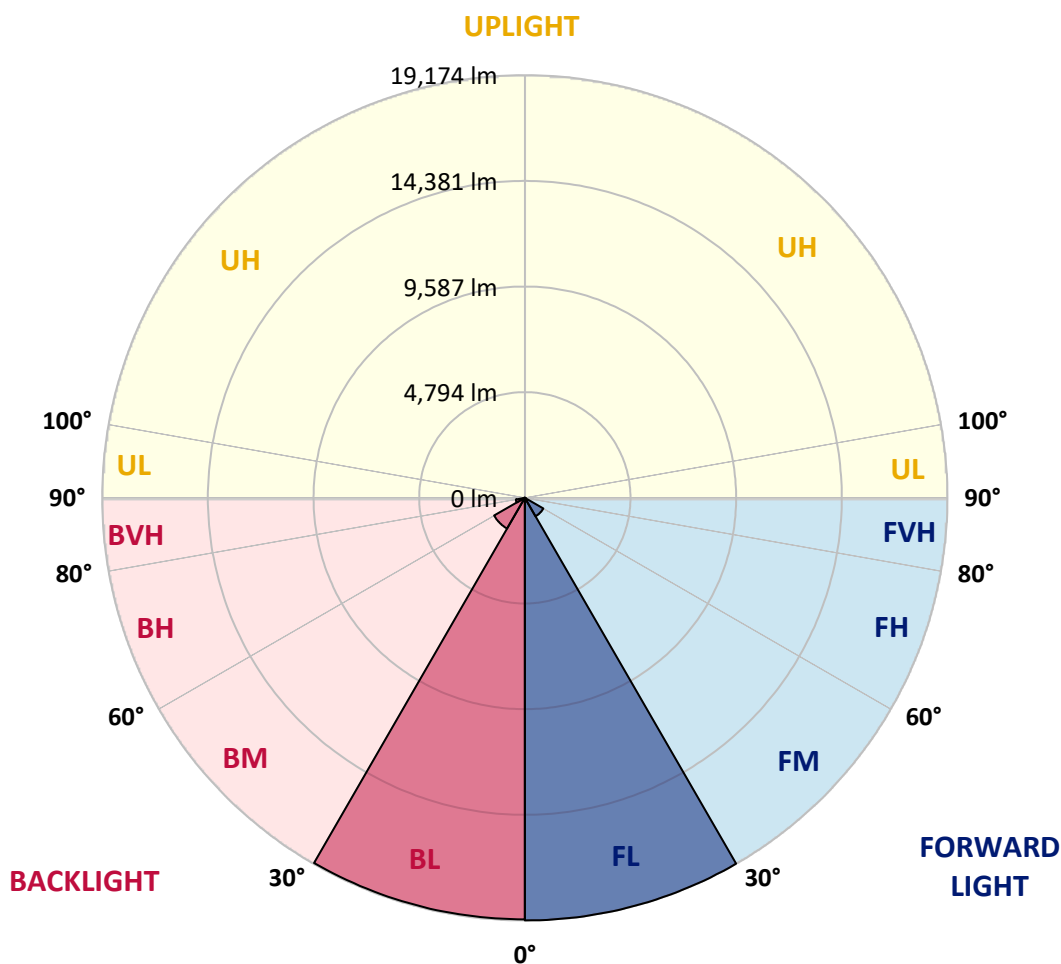


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	19174.1	46.3			
FM (30°-60°)	967.6	2.3			
FH (60°-80°)	45.5	0.1			G0/660
FVH (80°-90°)	9.0	0.0			G0/10
BL (0°-30°)	19128.6	46.2	B5		
BM (30°-60°)	1610.0	3.9	B2/2500		
BH (60°-80°)	415.7	1.0	B1/500		G0/660
BVH (80°-90°)	50.5	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°	411245.7	411245.7	411245.7	411245.7	411245.7	411245.7	411245.7	411245.7	411245.7	411245.7
1°	406321.6	405081.6	401880.1	404157.2	406159.3	405577.6	405537.0	405320.6	405018.5	407390.3
2°	390079.4	389276.8	384542.1	386494.6	389339.9	387265.7	388564.3	387423.5	387446.0	390277.8
3°	362699.4	363136.8	355583.9	359132.6	363087.2	358059.4	359619.6	362550.6	359479.8	358555.4
4°	327112.6	323315.8	319189.9	322797.3	323820.9	320894.4	323771.3	327360.6	323094.9	323284.3
5°	286484.5	283679.8	278796.3	281023.8	278485.1	279409.5	283720.4	285199.4	282223.3	278476.1
6°	244711.1	242718.0	236612.5	239823.1	238921.2	238398.1	243840.8	239331.6	240954.9	238686.7
7°	203550.9	199826.2	196827.6	199902.9	200101.3	198527.6	205593.5	204772.9	201819.3	201133.9
8°	168645.0	164929.4	162390.7	164681.4	166178.4	163707.4	167030.7	169213.1	166904.4	167111.8
9°	136020.7	135366.9	131836.2	134830.3	136458.1	133811.2	137490.7	138279.9	136119.9	137170.6
10°	111684.5	110922.4	108104.1	109317.1	112013.6	108857.2	112387.9	112644.9	110922.4	111413.9
12.5°	69018.2	68711.6	68634.9	68810.8	68774.7	69333.8	70235.7	69207.6	69072.3	67372.3
15°	44609.8	45065.2	44596.2	45498.1	45628.8	46156.4	45606.3	44776.6	43193.9	42409.2
17.5°	27839.9	28421.6	29224.3	30545.5	31866.7	32020.0	31289.5	30315.5	29548.9	28710.2
20°	16016.8	16300.8	16179.1	17761.8	21179.8	22108.7	21166.3	20142.7	19218.3	18370.6
22.5°	9951.9	9848.1	10037.5	10569.6	11683.4	14555.8	13784.7	12761.1	12089.2	11390.3
25°	6101.0	6213.7	6141.6	6434.7	6935.2	8152.7	8328.5	7886.6	7543.9	7183.2
27.5°	3927.5	3927.5	3959.1	4121.4	4464.1	4423.5	5361.5	5018.8	4833.9	4658.0
30°	2728.1	2737.1	2737.1	2831.8	2908.4	2773.2	3016.7	3458.6	3372.9	3237.6
32.5°	2024.6	2051.7	2074.2	2123.8	2060.7	1916.4	1975.0	2489.1	2439.5	2389.9
35°	1542.2	1564.7	1618.8	1645.9	1555.7	1465.5	1411.4	1830.7	1853.3	1839.8
37.5°	1122.8	1136.3	1235.5	1339.2	1235.5	1154.4	1122.8	1406.9	1515.1	1501.6
40°	861.3	865.8	883.8	1001.0	1001.0	937.9	946.9	1050.6	1240.0	1240.0
42.5°	739.5	739.5	757.5	739.5	744.0	811.7	834.2	847.7	1050.6	1050.6
45°	640.3	640.3	649.3	604.2	559.1	698.9	717.0	721.5	883.8	906.4
47.5°	536.6	536.6	554.6	496.0	473.5	554.6	604.2	617.8	762.1	780.1
50°	396.8	401.3	455.4	405.8	419.4	428.4	523.1	532.1	644.8	685.4
52.5°	266.0	266.0	275.1	315.6	365.2	351.7	423.9	455.4	514.1	568.2
55°	216.4	216.4	211.9	202.9	270.6	293.1	311.1	378.8	419.4	487.0
57.5°	148.8	157.8	144.3	166.8	175.9	221.0	234.5	297.6	320.2	410.3
60°	18.0	22.5	31.6	121.7	117.2	148.8	175.9	234.5	261.5	315.6
62.5°	4.5	4.5	9.0	22.5	81.2	99.2	139.8	162.3	189.4	243.5
65°	0.0	0.0	4.5	9.0	18.0	54.1	72.1	94.7	135.3	171.4
67.5°	0.0	0.0	4.5	9.0	9.0	22.5	36.1	58.6	72.1	126.3
70°	0.0	0.0	4.5	9.0	9.0	18.0	22.5	27.1	49.6	67.6
72.5°	0.0	0.0	4.5	9.0	13.5	18.0	22.5	22.5	22.5	45.1
75°	0.0	0.0	4.5	9.0	13.5	18.0	22.5	22.5	18.0	18.0
77.5°	0.0	0.0	4.5	9.0	18.0	22.5	27.1	22.5	13.5	13.5
80°	0.0	0.0	4.5	13.5	22.5	31.6	36.1	27.1	13.5	9.0
82.5°	0.0	0.0	9.0	18.0	27.1	36.1	49.6	40.6	18.0	9.0
85°	0.0	0.0	4.5	13.5	27.1	36.1	72.1	49.6	22.5	4.5
87.5°	0.0	0.0	0.0	4.5	4.5	9.0	27.1	18.0	9.0	4.5
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°
411245.7	0°	411245.7	411245.7	411245.7	411245.7	411245.7	411245.7	411245.7	411245.7
404653.2	1°	407480.5	407764.6	406835.7	408274.1	407769.1	404811.1	403832.5	402673.7
388613.9	2°	387423.5	388870.9	388943.1	390539.4	390516.8	387067.3	385998.6	387969.1
360431.3	3°	359340.0	361026.5	359506.9	362343.2	361490.9	357306.4	356219.7	358456.2
324781.3	4°	323811.9	323491.7	322968.6	321354.3	323342.9	320488.6	318337.7	321372.4
283445.3	5°	282877.1	282164.7	281145.6	280667.6	282146.6	280320.4	275896.9	280329.4
242790.1	6°	243087.7	240021.5	239872.7	239606.6	239755.4	234642.0	234948.6	238249.3
198775.6	7°	200876.9	201440.6	200290.7	202135.0	200728.1	197265.0	195930.3	199406.9
168022.7	8°	166850.3	166137.8	165258.5	168013.7	165574.2	163301.5	161745.9	164492.0
137341.9	9°	137084.9	135853.9	134961.1	134821.3	135200.1	130934.3	131800.1	133878.9
111684.5	10°	111725.0	109704.9	110196.4	110327.2	109912.3	107116.6	107143.7	107860.6
68499.6	12.5°	68256.1	67264.1	67512.1	67647.4	68490.6	67507.6	66118.7	65117.7
43189.3	15°	42900.8	42188.3	43644.8	44623.3	44424.9	43550.1	42896.2	41989.9
28710.2	17.5°	28444.2	29377.6	29382.1	30274.9	30365.1	29490.3	28985.3	28169.1
18672.7	20°	18605.1	18992.9	19800.0	20431.3	20796.5	20129.2	19524.9	18965.8
11642.8	22.5°	11642.8	12319.2	12824.2	13644.9	13978.6	13491.6	13063.2	12607.8
7268.9	25°	7147.1	7629.6	8049.0	8761.4	9216.9	8982.4	8590.1	8269.9
4694.1	27.5°	4766.2	4969.2	5176.6	5668.1	6141.6	6010.8	5853.0	5659.1
3309.8	30°	3359.4	3377.4	3598.4	3873.4	4189.1	4270.2	4198.1	4098.9
2430.5	32.5°	2475.6	2547.7	2651.4	2822.8	3034.7	3228.6	3192.5	3147.4
1857.8	35°	1911.9	2020.1	2105.8	2236.6	2349.3	2534.2	2565.7	2552.2
1528.6	37.5°	1560.2	1654.9	1740.6	1817.2	1911.9	2038.2	2137.4	2141.9
1262.6	40°	1294.1	1379.8	1492.6	1551.2	1618.8	1713.5	1835.3	1844.3
1068.7	42.5°	1091.2	1172.4	1285.1	1357.3	1406.9	1497.1	1618.8	1636.8
915.4	45°	937.9	987.5	1104.8	1190.4	1240.0	1298.7	1429.4	1447.5
789.1	47.5°	816.2	865.8	937.9	1059.7	1104.8	1158.9	1262.6	1294.1
698.9	50°	717.0	766.6	829.7	937.9	1005.6	1050.6	1136.3	1181.4
608.7	52.5°	635.8	685.4	753.0	838.7	915.4	956.0	1037.1	1095.7
496.0	55°	532.1	617.8	667.4	744.0	847.7	883.8	946.9	1023.6
432.9	57.5°	464.5	536.6	608.7	671.9	775.6	820.7	883.8	956.0
342.7	60°	392.3	459.9	545.6	599.7	698.9	757.5	825.2	892.8
261.5	62.5°	311.1	401.3	459.9	536.6	631.3	707.9	762.1	829.7
202.9	65°	230.0	329.2	396.8	478.0	568.2	649.3	694.4	766.6
144.3	67.5°	166.8	257.0	338.2	414.8	500.5	581.7	626.8	689.9
90.2	70°	130.8	189.4	279.6	347.2	437.4	505.0	554.6	595.2
58.6	72.5°	76.7	144.3	225.5	302.1	383.3	428.4	464.5	500.5
27.1	75°	49.6	112.7	184.9	252.5	311.1	351.7	383.3	414.8
13.5	77.5°	31.6	81.2	148.8	211.9	239.0	288.6	315.6	333.7
9.0	80°	18.0	63.1	130.8	171.4	193.9	225.5	252.5	275.1
9.0	82.5°	13.5	54.1	108.2	144.3	144.3	180.4	193.9	193.9
4.5	85°	9.0	45.1	85.7	135.3	108.2	135.3	126.3	126.3
4.5	87.5°	9.0	31.6	40.6	58.6	49.6	58.6	58.6	67.6
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
411245.7
398083.3
379622.5
348522.4
310387.9
268650.5
228680.8
189951.0
156650.4
127385.6
102981.7
64509.0
41525.4
27966.2
18771.9
12364.3
8085.0
5546.3
4031.2
3111.4
2507.1
2110.3
1830.7
1623.3
1443.0
1298.7
1185.9
1095.7
1028.1
960.5
910.9
861.3
780.1
694.4
608.7
509.5
414.8
324.7
248.0
180.4
121.7
67.6
0.0

(END OF REPORT)