

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: P637147

Luminaire Tested: **IFLD-S-SA2E-750-U-33-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637147
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2E-750-U-33-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 3 distribution lens and Visor
Light Source: (32) 5000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18411.7 lumens
Efficiency: N/A
Efficacy: 117.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

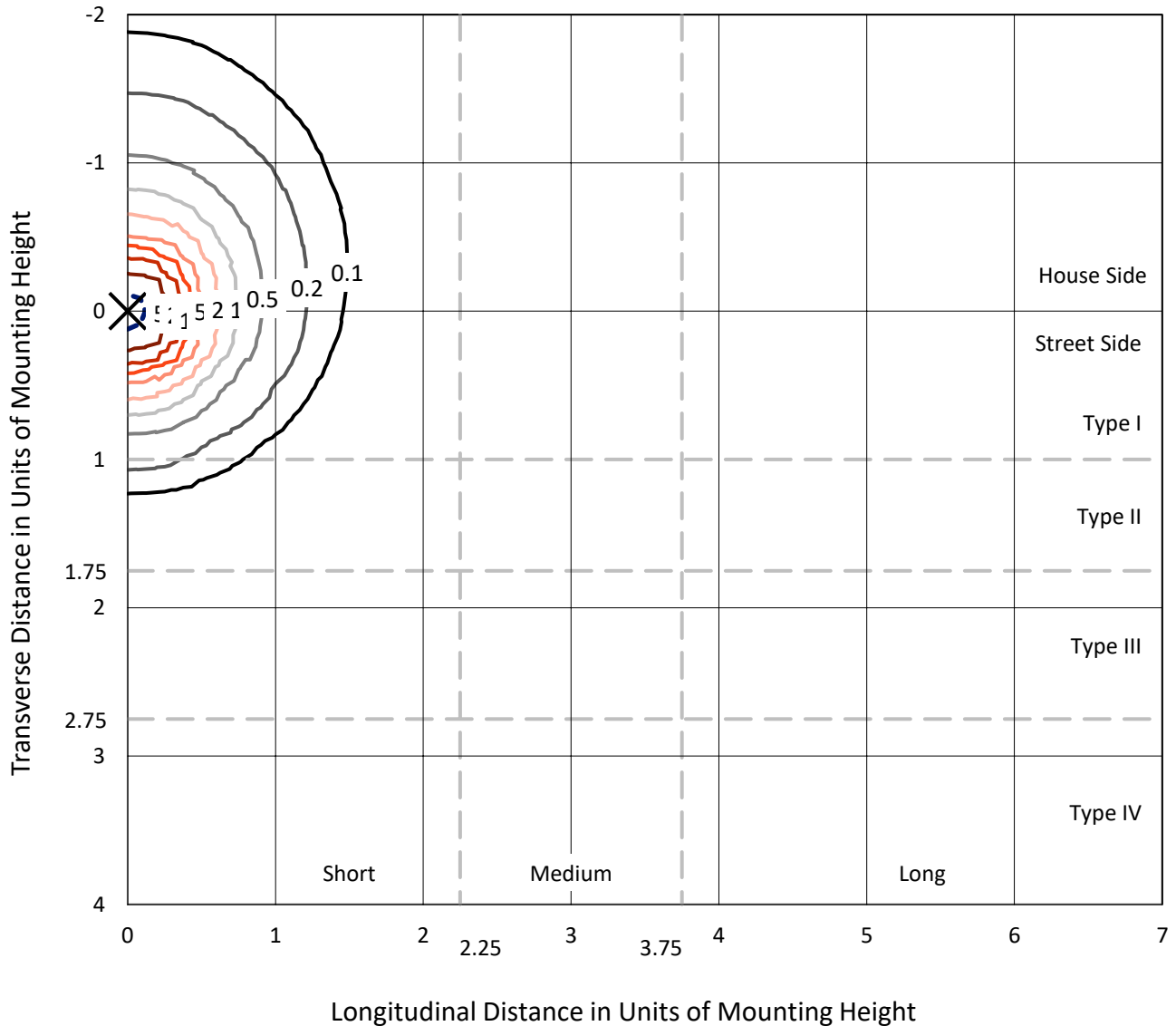
Input Watts (W): 156.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

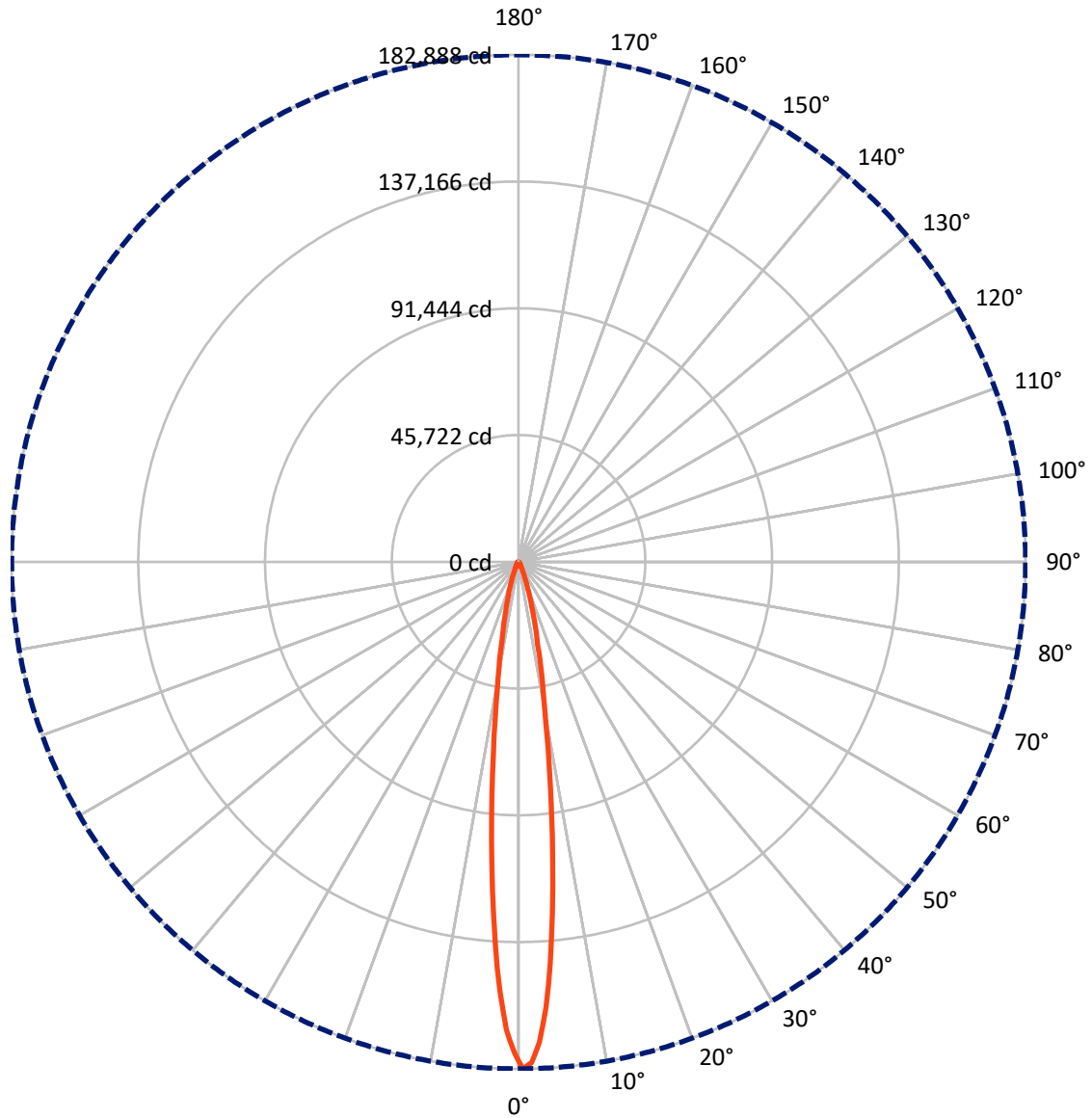
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 457.2 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	9430.1	0.0	9430.1
	% Fixture	51.2	0.0	51.2
Street Side	Lumens	8981.5	0.0	8981.5
	% Fixture	48.8	0.0	48.8
Total	Lumens	18411.7	0.0	18411.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9294.8	50.5
10°-20°	5950.5	32.3
20°-30°	1788.6	9.7
30°-40°	582.4	3.2
40°-50°	338.8	1.8
50°-60°	225.1	1.2
60°-70°	135.5	0.7
70°-80°	69.6	0.4
80°-90°	26.4	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°	18411.7	100.0
0°-180°	18411.7	100.0

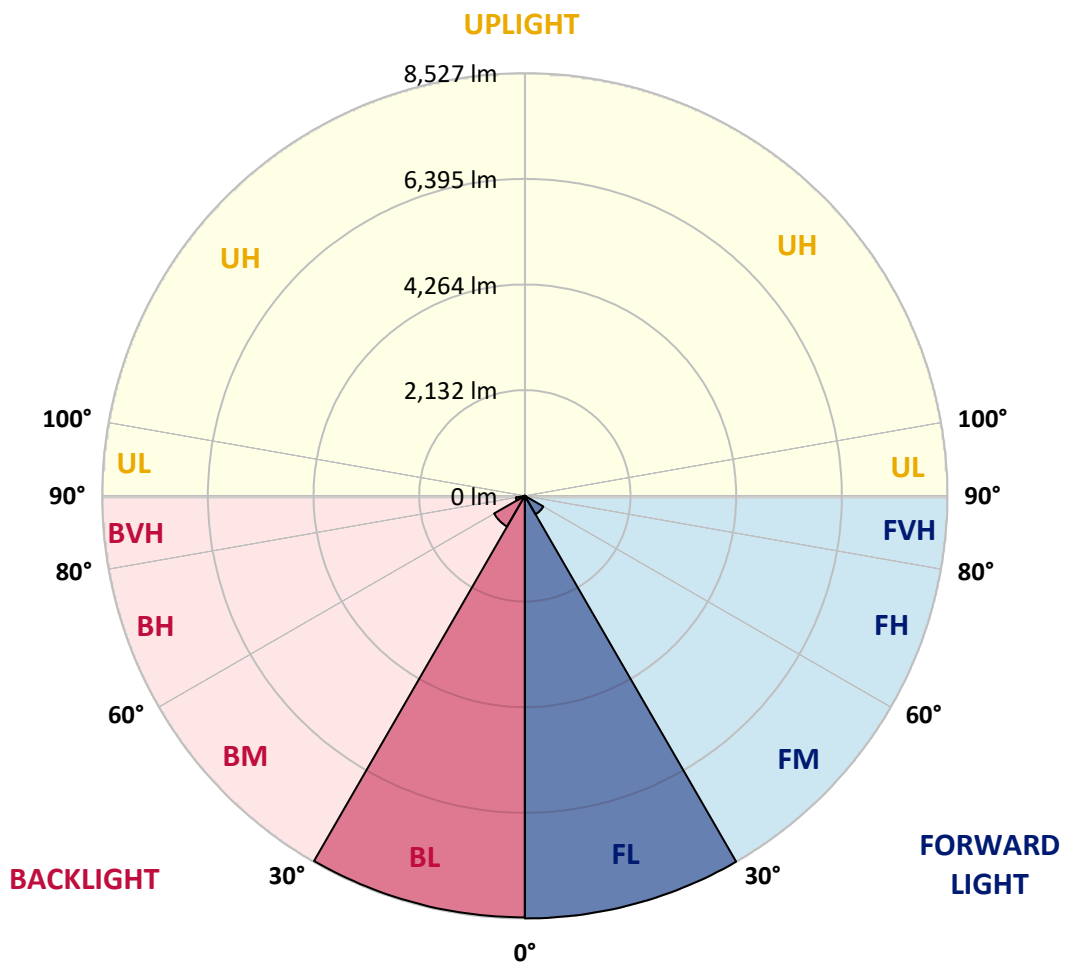


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	8527.0	46.3			
FM (30°-60°)	430.3	2.3			
FH (60°-80°)	20.2	0.1			G0/660
FVH (80°-90°)	4.0	0.0			G0/10
BL (0°-30°)	8506.8	46.2	B5		
BM (30°-60°)	716.0	3.9	B1/1000		
BH (60°-80°)	184.9	1.0	B1/500		G0/660
BVH (80°-90°)	22.5	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°	182887.7	182887.7	182887.7	182887.7	182887.7	182887.7	182887.7	182887.7	182887.7	182887.7
1°	180697.8	180146.4	178722.6	179735.3	180625.7	180367.0	180348.9	180252.7	180118.3	181173.1
2°	173474.7	173117.7	171012.1	171880.4	173145.8	172223.3	172800.9	172293.5	172303.6	173562.9
3°	161298.3	161492.8	158133.9	159712.1	161470.8	159234.8	159928.7	161232.2	159866.5	159455.4
4°	145472.3	143783.8	141948.9	143553.2	144008.4	142707.0	143986.4	145582.6	143685.6	143769.8
5°	127404.3	126157.0	123985.2	124975.9	123846.9	124258.0	126175.1	126832.8	125509.3	123842.9
6°	108827.0	107940.6	105225.4	106653.2	106252.2	106019.5	108440.0	106434.6	107156.6	106147.9
7°	90522.4	88866.0	87532.4	88900.1	88988.3	88288.4	91430.8	91065.8	89752.3	89447.5
8°	74999.2	73346.8	72217.8	73236.5	73902.2	72803.3	74281.3	75251.8	74225.1	74317.3
9°	60490.6	60199.9	58629.7	59961.2	60685.1	59508.0	61144.4	61495.3	60534.7	61002.0
10°	49667.9	49329.0	48075.7	48615.1	49814.3	48410.6	49980.7	50095.0	49329.0	49547.6
12.5°	30693.5	30557.1	30523.1	30601.3	30585.2	30833.9	31234.9	30777.7	30717.6	29961.6
15°	19838.7	20041.2	19832.7	20233.7	20291.9	20526.5	20281.9	19912.9	19209.0	18860.1
17.5°	12380.9	12639.6	12996.5	13584.1	14171.6	14239.8	13915.0	13481.8	13140.9	12767.9
20°	7122.9	7249.3	7195.1	7899.0	9419.0	9832.1	9413.0	8957.8	8546.7	8169.7
22.5°	4425.8	4379.6	4463.9	4700.5	5195.8	6473.2	6130.3	5675.1	5376.3	5065.5
25°	2713.2	2763.3	2731.3	2861.6	3084.2	3625.6	3703.8	3507.3	3354.9	3194.5
27.5°	1746.6	1746.6	1760.7	1832.9	1985.3	1967.2	2384.3	2231.9	2149.7	2071.5
30°	1213.2	1217.2	1217.2	1259.3	1293.4	1233.3	1341.6	1538.1	1500.0	1439.8
32.5°	900.4	912.4	922.4	944.5	916.4	852.3	878.3	1106.9	1084.9	1062.8
35°	685.8	695.8	719.9	731.9	691.8	651.7	627.7	814.2	824.2	818.2
37.5°	499.3	505.3	549.5	595.6	549.5	513.4	499.3	625.7	673.8	667.8
40°	383.0	385.0	393.0	445.2	445.2	417.1	421.1	467.2	551.5	551.5
42.5°	328.9	328.9	336.9	328.9	330.9	361.0	371.0	377.0	467.2	467.2
45°	284.8	284.8	288.8	268.7	248.7	310.8	318.8	320.9	393.0	403.1
47.5°	238.6	238.6	246.7	220.6	210.6	246.7	268.7	274.7	338.9	346.9
50°	176.5	178.5	202.5	180.5	186.5	190.5	232.6	236.6	286.8	304.8
52.5°	118.3	118.3	122.3	140.4	162.4	156.4	188.5	202.5	228.6	252.7
55°	96.3	96.3	94.3	90.2	120.3	130.3	138.4	168.4	186.5	216.6
57.5°	66.2	70.2	64.2	74.2	78.2	98.3	104.3	132.4	142.4	182.5
60°	8.0	10.0	14.0	54.1	52.1	66.2	78.2	104.3	116.3	140.4
62.5°	2.0	2.0	4.0	10.0	36.1	44.1	62.2	72.2	84.2	108.3
65°	0.0	0.0	2.0	4.0	8.0	24.1	32.1	42.1	60.2	76.2
67.5°	0.0	0.0	2.0	4.0	4.0	10.0	16.0	26.1	32.1	56.1
70°	0.0	0.0	2.0	4.0	4.0	8.0	10.0	12.0	22.1	30.1
72.5°	0.0	0.0	2.0	4.0	6.0	8.0	10.0	10.0	10.0	20.1
75°	0.0	0.0	2.0	4.0	6.0	8.0	10.0	10.0	8.0	8.0
77.5°	0.0	0.0	2.0	4.0	8.0	10.0	12.0	10.0	6.0	6.0
80°	0.0	0.0	2.0	6.0	10.0	14.0	16.0	12.0	6.0	4.0
82.5°	0.0	0.0	4.0	8.0	12.0	16.0	22.1	18.0	8.0	4.0
85°	0.0	0.0	2.0	6.0	12.0	16.0	32.1	22.1	10.0	2.0
87.5°	0.0	0.0	0.0	2.0	2.0	4.0	12.0	8.0	4.0	2.0
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°
182887.7	0°	182887.7	182887.7	182887.7	182887.7	182887.7	182887.7	182887.7	182887.7	182887.7
179955.9	1°	181213.2	181339.5	180926.4	181566.1	181341.6	180026.1	179590.9	179075.5	178333.6
172822.9	2°	172293.5	172937.2	172969.3	173679.2	173669.2	172135.1	171659.8	172536.2	170825.6
160289.6	3°	159804.4	160554.4	159878.6	161139.9	160760.9	158900.0	158416.7	159411.3	158168.0
144435.5	4°	144004.4	143862.0	143629.4	142911.5	143795.8	142526.5	141569.9	142919.5	140260.5
126052.7	5°	125800.1	125483.2	125030.0	124817.5	125475.2	124663.0	122695.8	124667.1	119924.5
107972.7	6°	108105.1	106741.5	106675.3	106557.0	106623.1	104349.1	104485.5	105953.4	102006.9
88398.7	7°	89333.2	89583.9	89072.5	89892.7	89267.0	87727.0	87133.4	88679.5	85890.1
74722.4	8°	74201.0	73884.2	73493.2	74718.4	73633.5	72622.8	71931.0	73152.3	71080.8
61078.2	9°	60963.9	60416.4	60019.4	59957.2	60125.7	58228.6	58613.6	59538.1	58290.8
49667.9	10°	49685.9	48787.6	49006.1	49064.3	48879.8	47636.5	47648.5	47967.4	46467.4
30462.9	12.5°	30354.6	29913.4	30023.7	30083.9	30458.9	30021.7	29404.1	28958.9	28734.3
19207.0	15°	19078.7	18761.8	19409.5	19844.7	19756.5	19367.4	19076.7	18673.6	18348.7
12767.9	17.5°	12649.6	13064.7	13066.7	13463.8	13503.9	13114.8	12890.2	12527.3	12543.3
8304.1	20°	8274.0	8446.4	8805.4	9086.1	9248.6	8951.8	8683.1	8434.4	8330.1
5177.7	22.5°	5177.7	5478.5	5703.1	6068.1	6216.5	5999.9	5809.4	5606.9	5482.6
3232.6	25°	3178.4	3393.0	3579.5	3896.3	4098.9	3994.6	3820.1	3677.8	3611.6
2087.5	27.5°	2119.6	2209.9	2302.1	2520.7	2731.3	2673.1	2602.9	2516.7	2486.6
1471.9	30°	1494.0	1502.0	1600.2	1722.6	1862.9	1899.0	1867.0	1822.8	1788.8
1080.9	32.5°	1100.9	1133.0	1179.1	1255.3	1349.6	1435.8	1419.8	1399.7	1383.7
826.2	35°	850.3	898.4	936.5	994.6	1044.8	1127.0	1141.0	1135.0	1123.0
679.8	37.5°	693.8	736.0	774.1	808.1	850.3	906.4	950.5	952.5	940.5
561.5	40°	575.5	613.6	663.8	689.8	719.9	762.0	816.2	820.2	816.2
475.3	42.5°	485.3	521.4	571.5	603.6	625.7	665.8	719.9	727.9	719.9
407.1	45°	417.1	439.2	491.3	529.4	551.5	577.5	635.7	643.7	641.7
350.9	47.5°	363.0	385.0	417.1	471.3	491.3	515.4	561.5	575.5	575.5
310.8	50°	318.8	340.9	369.0	417.1	447.2	467.2	505.3	525.4	525.4
270.7	52.5°	282.8	304.8	334.9	373.0	407.1	425.1	461.2	487.3	487.3
220.6	55°	236.6	274.7	296.8	330.9	377.0	393.0	421.1	455.2	455.2
192.5	57.5°	206.5	238.6	270.7	298.8	344.9	365.0	393.0	425.1	429.1
152.4	60°	174.5	204.5	242.6	266.7	310.8	336.9	367.0	397.1	405.1
116.3	62.5°	138.4	178.5	204.5	238.6	280.7	314.8	338.9	369.0	381.0
90.2	65°	102.3	146.4	176.5	212.6	252.7	288.8	308.8	340.9	348.9
64.2	67.5°	74.2	114.3	150.4	184.5	222.6	258.7	278.7	306.8	312.8
40.1	70°	58.2	84.2	124.3	154.4	194.5	224.6	246.7	264.7	270.7
26.1	72.5°	34.1	64.2	100.3	134.4	170.5	190.5	206.5	222.6	226.6
12.0	75°	22.1	50.1	82.2	112.3	138.4	156.4	170.5	184.5	186.5
6.0	77.5°	14.0	36.1	66.2	94.3	106.3	128.3	140.4	148.4	144.4
4.0	80°	8.0	28.1	58.2	76.2	86.2	100.3	112.3	122.3	112.3
4.0	82.5°	6.0	24.1	48.1	64.2	64.2	80.2	86.2	86.2	82.2
2.0	85°	4.0	20.1	38.1	60.2	48.1	60.2	56.1	56.1	56.1
2.0	87.5°	4.0	14.0	18.0	26.1	22.1	26.1	26.1	30.1	30.1
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
182887.7
177034.1
168824.3
154993.6
138034.6
119473.3
101698.1
84474.3
69665.0
56650.4
45797.6
28688.2
18467.0
12437.0
8348.2
5498.6
3595.5
2466.5
1792.8
1383.7
1115.0
938.5
814.2
721.9
641.7
577.5
527.4
487.3
457.2
427.1
405.1
383.0
346.9
308.8
270.7
226.6
184.5
144.4
110.3
80.2
54.1
30.1
0.0

(END OF REPORT)