

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: P637905

Luminaire Tested: **IFLD-S-SA3D-740-U-66-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637905
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3D-740-U-66-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor
Light Source: (48) 4000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19652.7 lumens
Efficiency: N/A
Efficacy: 106.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G1

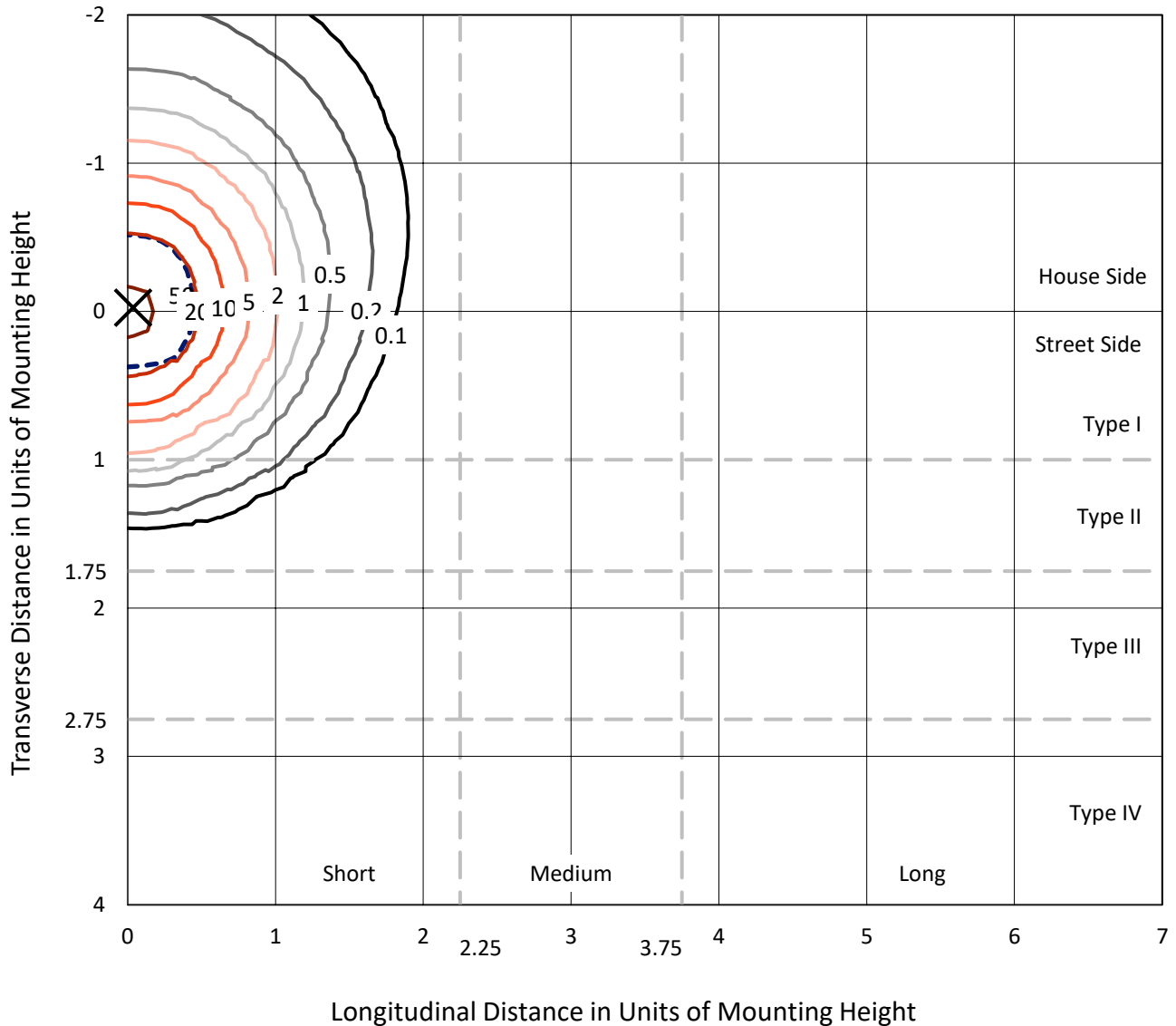
Input Watts (W): 184.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

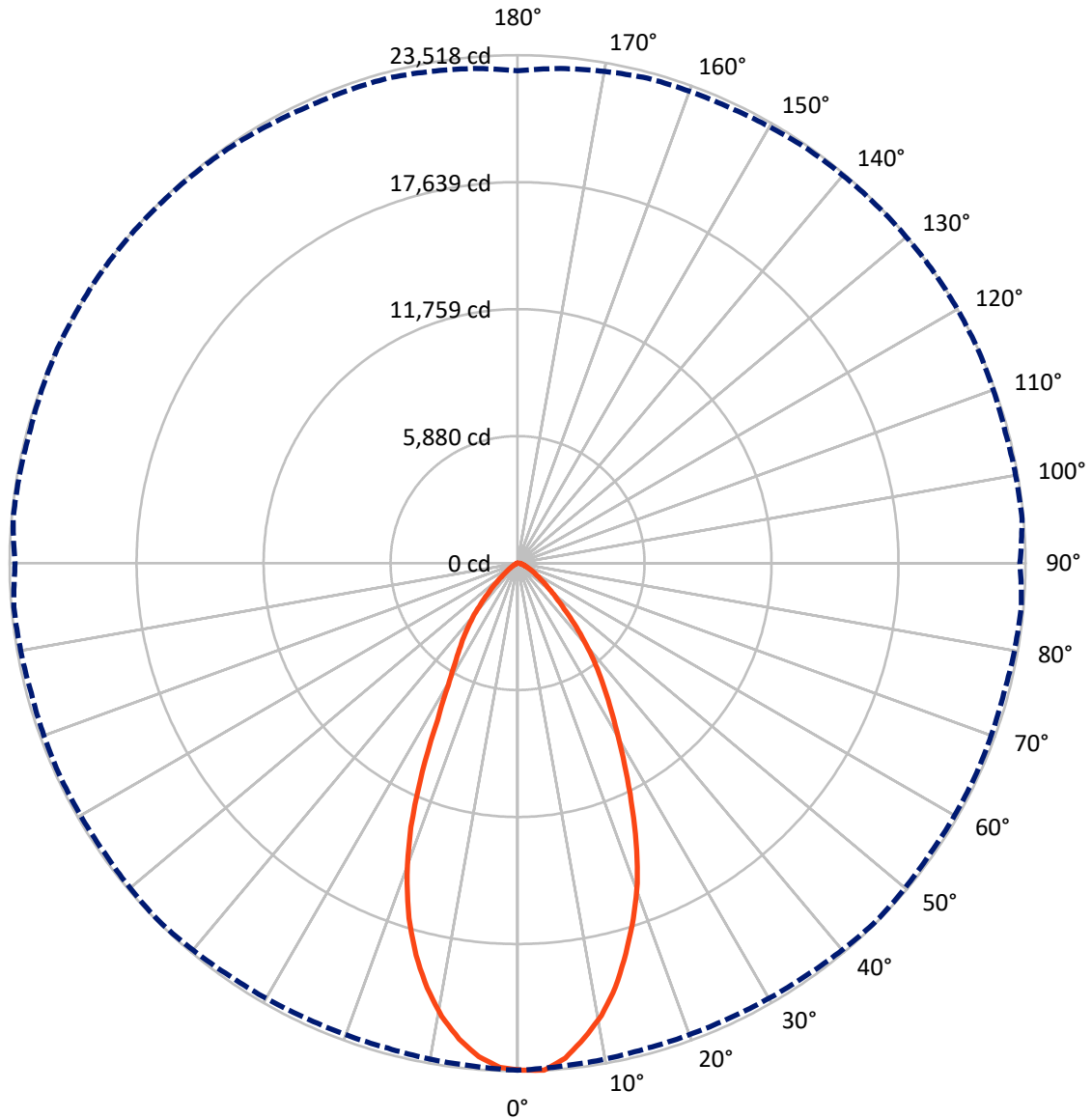
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 58.7 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 125-Deg Lateral - - - Horizontal Cone Through 2.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11151.8	0.0	11151.8
	% Fixture	56.7	0.0	56.7
Street Side	Lumens	8501.0	0.0	8501.0
	% Fixture	43.3	0.0	43.3
Total	Lumens	19652.7	0.0	19652.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2132.1	10.8
10°-20°	5082.4	25.9
20°-30°	5176.4	26.3
30°-40°	3860.0	19.6
40°-50°	2016.6	10.3
50°-60°	848.2	4.3
60°-70°	346.4	1.8
70°-80°	145.8	0.7
80°-90°	44.9	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°	19652.7	100.0
0°-180°	19652.7	100.0



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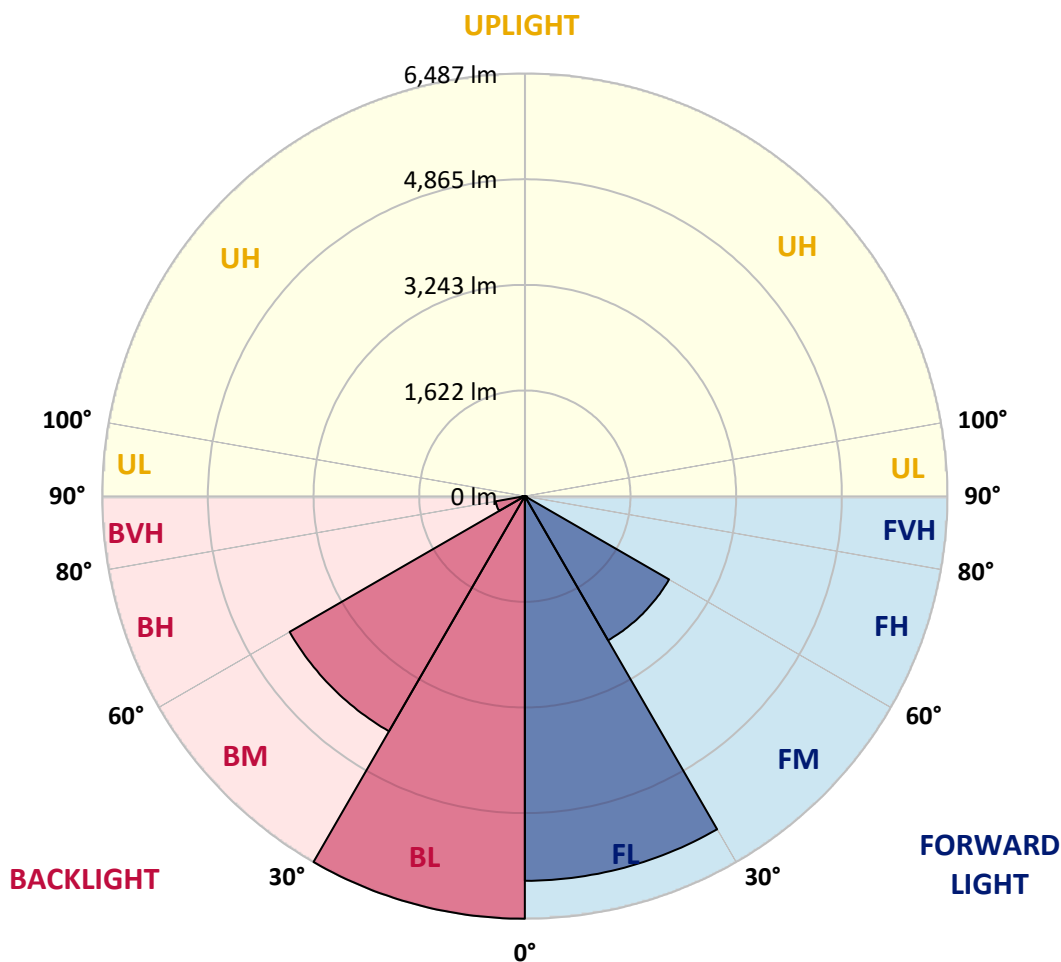
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5903.9	30.0			
FM (30°-60°)	2555.9	13.0			
FH (60°-80°)	37.0	0.2			G0/660
FVH (80°-90°)	4.2	0.0			G0/10
BL (0°-30°)	6487.0	33.0	B5		
BM (30°-60°)	4168.8	21.2	B3/5000		
BH (60°-80°)	455.2	2.3	B1/500		G1/500
BVH (80°-90°)	40.7	0.2			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 I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	23480.3	23480.3	23480.3	23480.3	23480.3	23480.3	23480.3	23480.3	23480.3	23480.3
2.5°	23482.8	23386.9	23250.6	23237.9	23308.6	23462.6	23364.2	23369.2	23308.6	23412.1
5°	23114.2	23023.4	22929.9	22806.2	22909.8	22975.4	22924.9	22869.4	22791.1	22892.1
7.5°	22417.5	22367.0	22228.1	22172.6	22235.7	22308.9	22200.4	22185.2	22076.7	22207.9
10°	21352.1	21331.9	21195.6	21162.8	21218.3	21329.4	21281.5	21271.4	21203.2	21190.6
12.5°	20246.4	20168.2	19999.0	19988.9	20072.2	20238.8	20110.1	19986.4	20024.3	20057.1
15°	17398.8	17315.5	17734.5	18393.4	18739.3	18726.7	18764.5	18615.6	18570.2	18585.3
17.5°	13831.7	13690.3	13841.8	14861.7	16505.1	17459.4	17196.8	16876.2	16704.6	16591.0
20°	11938.3	11945.9	11918.1	12180.7	13205.6	15381.7	15318.6	14700.1	14475.4	14382.0
22.5°	10787.1	10744.2	10683.6	10767.0	11042.1	12319.5	13175.3	12607.3	12529.0	12425.5
25°	9658.7	9658.7	9585.5	9668.8	9747.1	9764.7	10623.1	10855.3	10703.8	10703.8
27.5°	8681.7	8631.2	8598.4	8636.3	8532.8	8035.5	8144.0	9333.0	9229.5	9166.4
30°	7712.3	7697.2	7641.6	7692.1	7308.4	6748.0	6520.8	7876.4	7985.0	7962.2
32.5°	6366.8	6427.4	6674.8	6753.0	6096.6	5644.8	5427.7	6538.4	6972.6	6955.0
35°	4327.0	4377.5	4660.2	5594.3	5054.0	4730.9	4667.8	5200.5	5914.9	5983.0
37.5°	3445.9	3438.4	3519.1	3685.8	4061.9	3983.6	3966.0	4104.8	4824.3	4854.6
40°	2840.1	2830.0	2827.4	2691.1	2597.7	3312.1	3264.2	3180.9	3804.4	3865.0
42.5°	2289.7	2299.8	2307.4	2009.5	1873.2	2554.8	2527.0	2441.2	2983.9	3054.6
45°	1797.4	1794.9	1810.1	1497.0	1459.2	1633.3	1888.3	1820.2	2251.8	2327.6
47.5°	931.5	964.4	1168.8	1158.7	1176.4	1158.7	1428.9	1411.2	1693.9	1815.1
50°	626.1	636.2	653.8	656.4	926.5	853.3	969.4	1098.2	1186.5	1373.3
52.5°	484.7	492.3	446.8	419.1	568.0	631.1	636.2	759.9	828.0	1017.4
55°	270.1	302.9	325.7	328.2	313.0	467.0	464.5	563.0	616.0	742.2
57.5°	35.3	42.9	65.6	212.1	209.5	260.0	325.7	409.0	439.3	542.8
60°	2.5	5.0	7.6	32.8	138.8	151.5	222.2	255.0	305.5	381.2
62.5°	0.0	0.0	2.5	7.6	27.8	88.4	116.1	133.8	179.2	249.9
65°	0.0	0.0	2.5	5.0	10.1	32.8	45.4	73.2	106.0	154.0
67.5°	0.0	0.0	2.5	5.0	7.6	12.6	20.2	32.8	55.5	93.4
70°	0.0	0.0	2.5	5.0	7.6	10.1	15.1	20.2	30.3	50.5
72.5°	0.0	0.0	2.5	2.5	5.0	12.6	12.6	15.1	20.2	27.8
75°	0.0	0.0	2.5	5.0	7.6	12.6	12.6	12.6	15.1	17.7
77.5°	0.0	0.0	2.5	5.0	7.6	12.6	10.1	12.6	12.6	12.6
80°	0.0	0.0	2.5	5.0	7.6	12.6	15.1	12.6	10.1	10.1
82.5°	0.0	0.0	2.5	7.6	7.6	17.7	17.7	17.7	7.6	7.6
85°	0.0	0.0	5.0	7.6	12.6	20.2	20.2	15.1	7.6	5.0
87.5°	0.0	0.0	2.5	5.0	5.0	10.1	15.1	12.6	5.0	2.5
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°
23480.3	0°	23480.3	23480.3	23480.3	23480.3	23480.3	23480.3	23480.3	23480.3	23480.3
23260.7	2.5°	23447.5	23384.4	23503.0	23518.2	23467.7	23404.6	23258.1	23245.5	22990.5
22745.7	5°	23003.2	22899.7	22975.4	23025.9	23008.2	22940.0	22879.5	22823.9	22594.2
21910.1	7.5°	22175.1	22137.3	22172.6	22210.5	22283.7	22210.5	22185.2	22127.2	21900.0
21087.1	10°	21256.2	21185.5	21319.3	21301.7	21281.5	21261.3	21155.2	21165.3	20897.7
19966.2	12.5°	20127.8	20009.1	20137.9	20153.0	20137.9	20067.2	19948.5	19999.0	19754.1
18451.5	15°	18610.5	18597.9	18691.3	18751.9	18794.8	18719.1	18678.7	18704.0	18557.5
16502.6	17.5°	16747.5	16911.6	17217.0	17320.5	17323.1	17401.3	17378.6	17348.3	17239.7
14344.2	20°	14556.2	14871.8	15341.3	15823.5	15962.4	15896.7	15866.4	15922.0	15760.4
12317.0	22.5°	12534.1	12804.2	13349.5	14053.8	14460.3	14500.7	14493.1	14445.1	14382.0
10693.7	25°	10817.4	11057.3	11579.8	12223.6	13003.7	13119.8	13124.8	13109.7	13054.1
9222.0	27.5°	9368.4	9658.7	9946.5	10522.1	11352.6	11832.3	11771.7	11754.0	11733.8
7979.9	30°	8055.6	8421.7	8691.8	9050.3	9795.0	10443.8	10506.9	10476.6	10428.7
6952.4	32.5°	7015.6	7232.7	7576.0	7818.3	8353.5	9088.2	9330.5	9307.8	9264.9
6026.0	35°	6111.8	6197.6	6467.7	6737.9	7093.8	7805.7	8164.2	8113.7	8106.1
4910.1	37.5°	5033.8	5321.6	5470.6	5743.2	5993.1	6546.0	7040.8	7018.1	7020.6
3948.3	40°	4064.4	4231.0	4526.4	4756.1	4985.9	5389.8	5940.1	5955.3	5950.2
3057.2	42.5°	3120.3	3281.8	3592.4	3842.3	4046.8	4296.7	4821.8	4839.4	4862.2
2380.6	45°	2436.1	2539.6	2766.8	3026.9	3244.0	3395.4	3794.3	3907.9	3910.4
1845.4	47.5°	1890.8	2009.5	2171.1	2421.0	2633.0	2741.6	3031.9	3185.9	3178.3
1416.2	50°	1484.4	1593.0	1724.2	1921.1	2150.9	2236.7	2451.3	2602.7	2595.2
1067.9	52.5°	1136.0	1274.9	1391.0	1542.5	1767.1	1840.4	1994.3	2168.5	2143.3
782.6	55°	860.9	1002.2	1110.8	1237.0	1441.5	1534.9	1640.9	1779.8	1784.8
605.9	57.5°	648.8	795.2	893.7	1022.4	1176.4	1279.9	1360.7	1509.6	1507.1
414.0	60°	464.5	590.7	709.4	843.2	961.8	1080.5	1136.0	1277.4	1282.4
292.8	62.5°	335.8	454.4	568.0	684.1	790.2	906.3	956.8	1067.9	1083.0
191.9	65°	234.8	318.1	449.4	537.7	656.4	742.2	807.8	903.8	921.4
113.6	67.5°	151.5	229.7	356.0	434.2	542.8	616.0	684.1	759.9	782.6
73.2	70°	90.9	174.2	265.1	348.4	446.8	512.5	578.1	643.7	656.4
35.3	72.5°	58.1	121.2	191.9	282.7	358.5	429.2	487.2	535.2	497.3
22.7	75°	32.8	83.3	151.5	222.2	290.3	358.5	406.4	431.7	345.9
15.1	77.5°	20.2	60.6	123.7	179.2	224.7	287.8	318.1	333.2	247.4
10.1	80°	12.6	45.4	103.5	146.4	146.4	212.1	247.4	260.0	179.2
7.6	82.5°	10.1	32.8	80.8	111.1	98.5	159.0	194.4	196.9	126.2
5.0	85°	7.6	25.2	50.5	73.2	68.2	111.1	113.6	126.2	83.3
5.0	87.5°	5.0	15.1	30.3	42.9	37.9	53.0	60.6	68.2	45.4
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
23480.3
22791.1
22409.9
21852.0
20806.9
19683.5
18380.8
17078.2
15644.3
14260.8
12867.3
11615.2
10368.1
9151.3
8022.8
6939.8
5861.9
4786.4
3844.8
3150.6
2595.2
2145.8
1784.8
1502.1
1269.8
1078.0
916.4
780.1
646.3
462.0
328.2
232.3
166.6
116.1
75.7
40.4
0.0

(END OF REPORT)