

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: P637093

Luminaire Tested: **IFLD-S-SA3D-735-U-33-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637093
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3D-735-U-33-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 3 distribution lens and Visor
Light Source: (48) 3500K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22860.9 lumens
Efficiency: N/A
Efficacy: 124.2 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

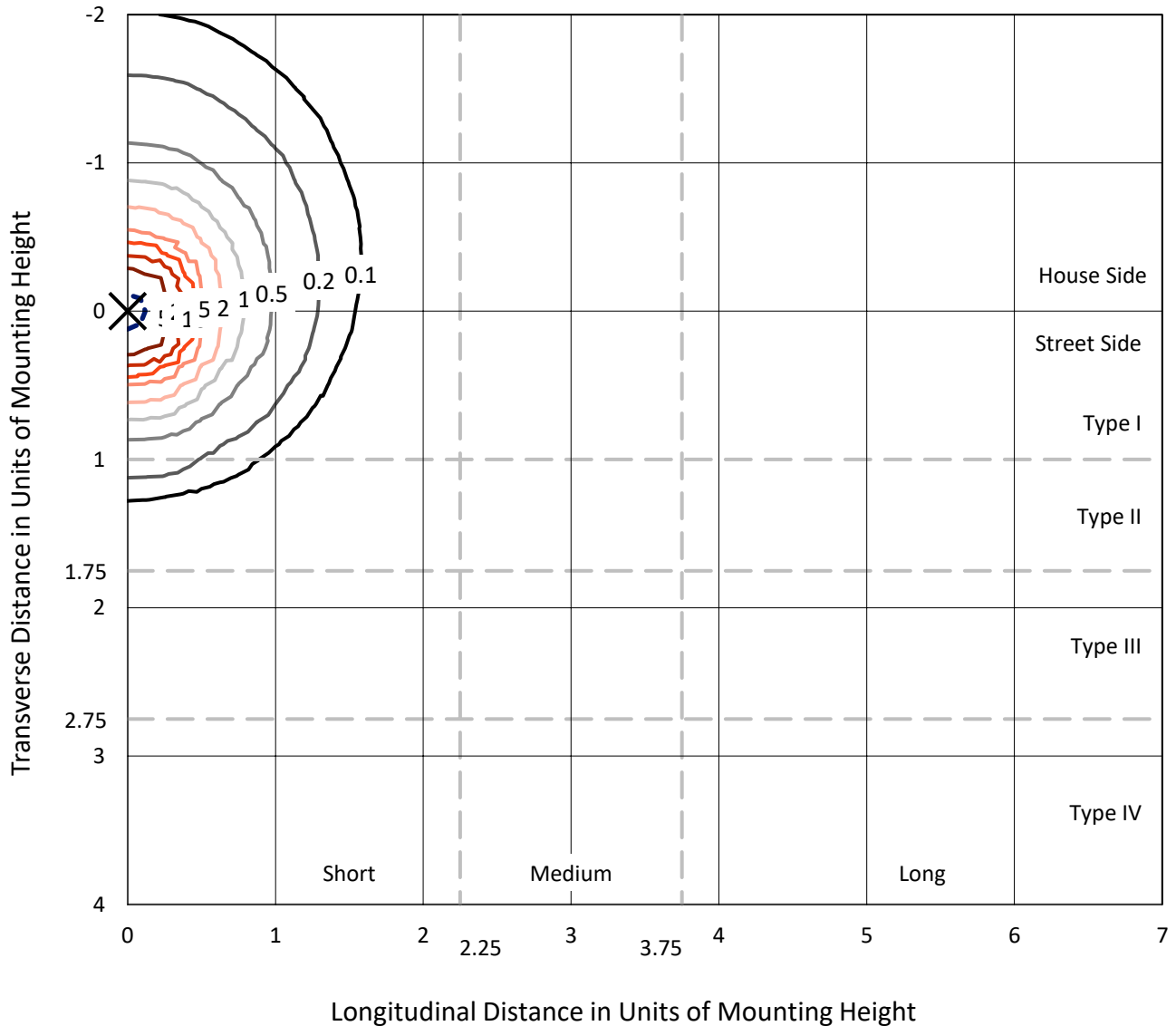
Input Watts (W): 184.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

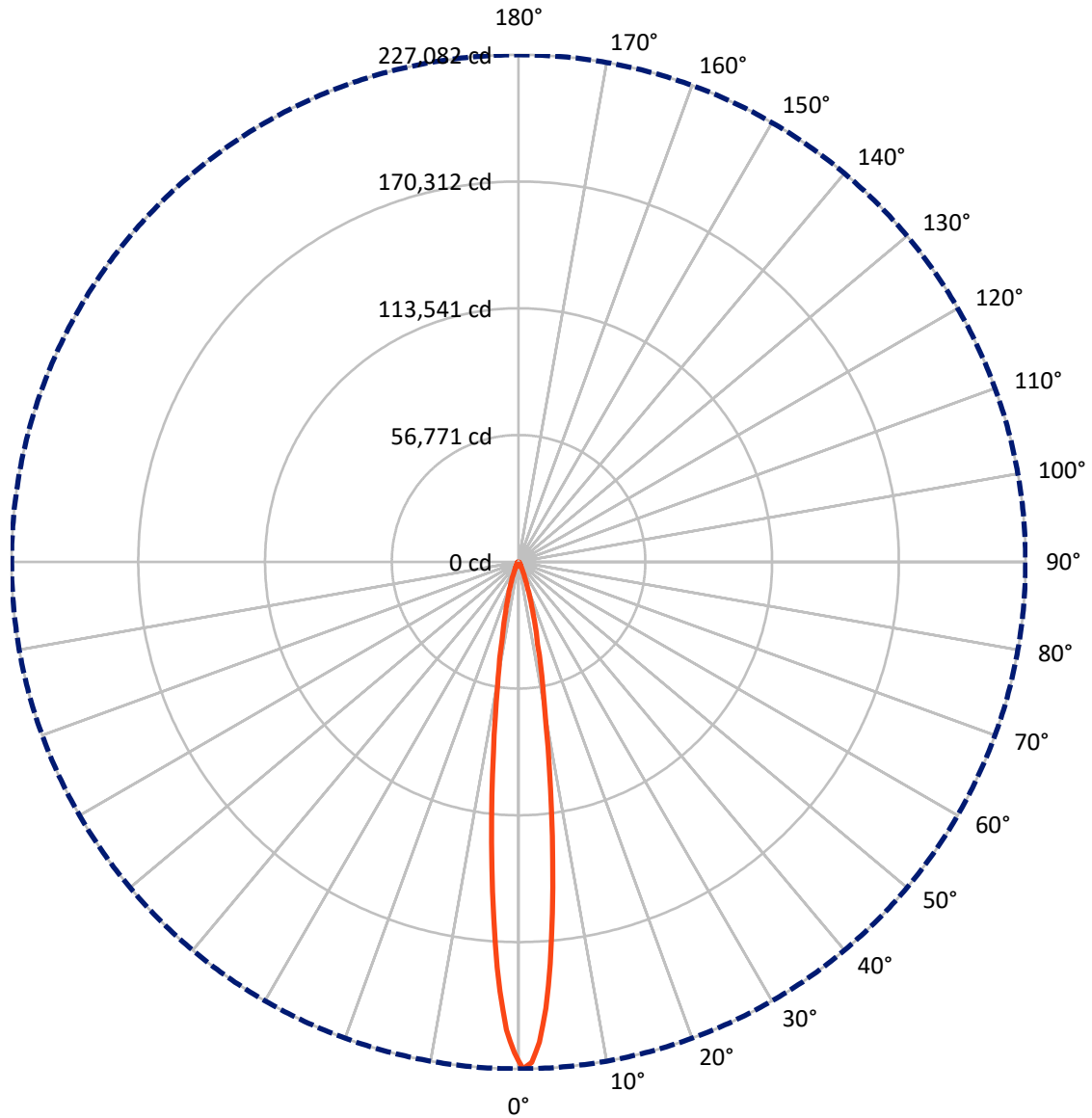
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 567.7 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	11708.9	0.0	11708.9
	% Fixture	51.2	0.0	51.2
Street Side	Lumens	11151.9	0.0	11151.9
	% Fixture	48.8	0.0	48.8
Total	Lumens	22860.9	0.0	22860.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	11540.8	50.5
10°-20°	7388.4	32.3
20°-30°	2220.8	9.7
30°-40°	723.1	3.2
40°-50°	420.7	1.8
50°-60°	279.5	1.2
60°-70°	168.2	0.7
70°-80°	86.5	0.4
80°-90°	32.9	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°	22860.9	100.0
0°-180°	22860.9	100.0

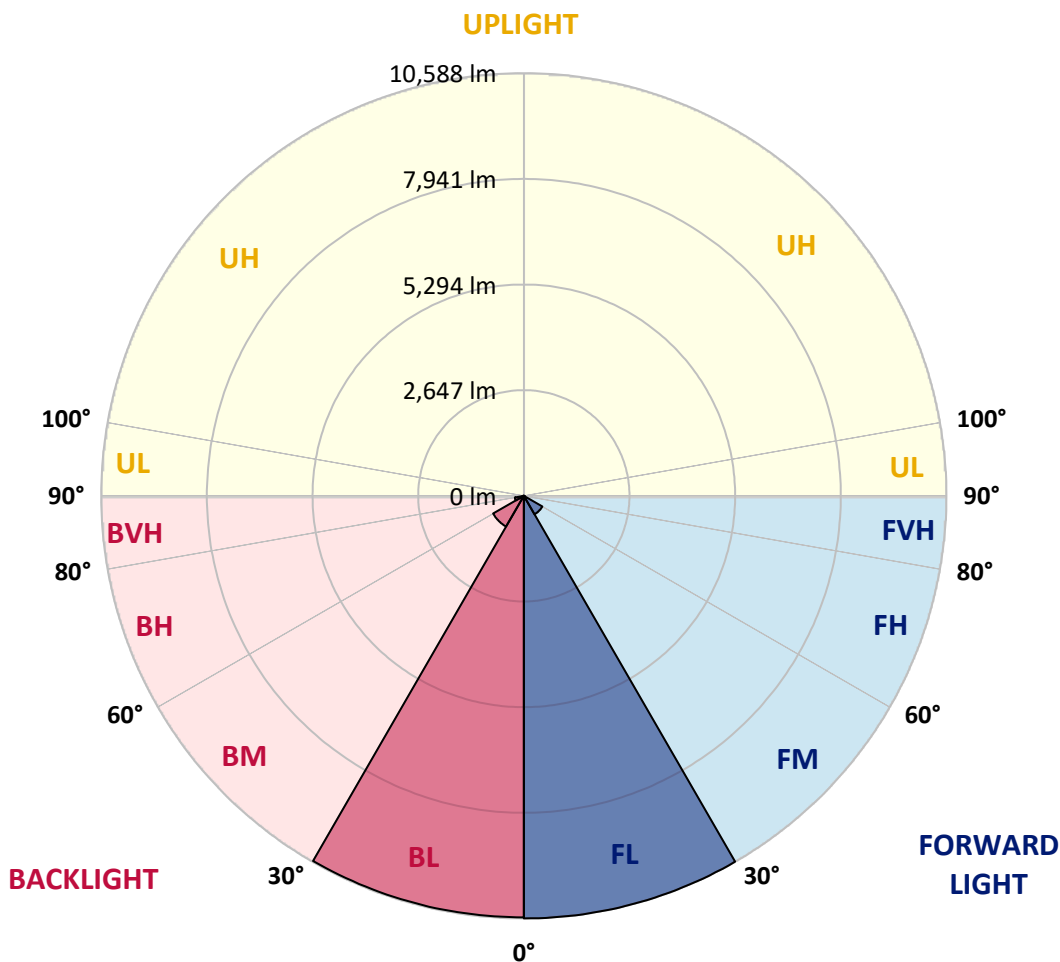


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	10587.6	46.3			
FM (30°-60°)	534.3	2.3			
FH (60°-80°)	25.1	0.1			G0/660
FVH (80°-90°)	5.0	0.0			G0/10
BL (0°-30°)	10562.5	46.2	B5		
BM (30°-60°)	889.0	3.9	B1/1000		
BH (60°-80°)	229.5	1.0	B1/500		G0/660
BVH (80°-90°)	27.9	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°	227082.4	227082.4	227082.4	227082.4	227082.4	227082.4	227082.4	227082.4	227082.4	227082.4
1°	224363.4	223678.7	221910.8	223168.2	224273.8	223952.6	223930.2	223810.6	223643.8	224953.5
2°	215394.7	214951.5	212337.1	213415.3	214986.4	213841.0	214558.1	213928.2	213940.6	215504.3
3°	200276.0	200517.5	196346.9	198306.5	200490.1	197713.9	198575.4	200193.8	198498.2	197987.8
4°	180625.6	178529.1	176250.8	178242.8	178808.0	177192.0	178780.6	180762.6	178407.1	178511.7
5°	158191.5	156642.8	153946.2	155176.2	153774.4	154284.8	156665.2	157481.9	155838.6	153769.4
6°	135125.0	134024.4	130653.1	132425.9	131927.9	131639.1	134644.4	132154.5	133050.9	131798.5
7°	112397.1	110340.4	108684.6	110382.7	110492.3	109623.3	113525.0	113071.8	111440.9	111062.5
8°	93122.7	91071.0	89669.2	90934.0	91760.7	90396.2	92231.3	93436.4	92161.6	92276.1
9°	75108.2	74747.1	72797.5	74450.8	75349.7	73888.1	75919.9	76355.6	75162.9	75743.1
10°	61670.1	61249.3	59693.1	60362.9	61851.9	60108.9	62058.5	62200.5	61249.3	61520.7
12.5°	38110.6	37941.3	37898.9	37996.0	37976.1	38284.9	38782.9	38215.2	38140.5	37201.8
15°	24632.7	24884.2	24625.2	25123.2	25195.4	25486.7	25183.0	24724.8	23850.9	23417.6
17.5°	15372.7	15693.9	16137.1	16866.7	17596.2	17680.9	17277.5	16739.7	16316.4	15853.3
20°	8844.2	9001.0	8933.8	9807.8	11695.1	12208.0	11687.6	11122.4	10612.0	10143.9
22.5°	5495.2	5438.0	5542.5	5836.4	6451.4	8037.4	7611.7	7046.4	6675.5	6289.5
25°	3368.8	3431.1	3391.3	3553.1	3829.5	4501.8	4598.9	4354.9	4165.6	3966.4
27.5°	2168.7	2168.7	2186.1	2275.8	2465.0	2442.6	2960.5	2771.3	2669.2	2572.1
30°	1506.4	1511.4	1511.4	1563.7	1606.0	1531.3	1665.8	1909.8	1862.5	1787.8
32.5°	1118.0	1132.9	1145.4	1172.7	1137.9	1058.2	1090.6	1374.4	1347.0	1319.7
35°	851.5	864.0	893.9	908.8	859.0	809.2	779.3	1010.9	1023.4	1015.9
37.5°	620.0	627.5	682.2	739.5	682.2	637.4	620.0	776.9	836.6	829.1
40°	475.6	478.1	488.0	552.8	552.8	517.9	522.9	580.1	684.7	684.7
42.5°	408.3	408.3	418.3	408.3	410.8	448.2	460.6	468.1	580.1	580.1
45°	353.6	353.6	358.5	333.6	308.7	385.9	395.9	398.4	488.0	500.5
47.5°	296.3	296.3	306.3	273.9	261.4	306.3	333.6	341.1	420.8	430.8
50°	219.1	221.6	251.5	224.1	231.6	236.5	288.8	293.8	356.1	378.5
52.5°	146.9	146.9	151.9	174.3	201.7	194.2	234.1	251.5	283.8	313.7
55°	119.5	119.5	117.0	112.0	149.4	161.8	171.8	209.2	231.6	268.9
57.5°	82.2	87.1	79.7	92.1	97.1	122.0	129.5	164.3	176.8	226.6
60°	10.0	12.4	17.4	67.2	64.7	82.2	97.1	129.5	144.4	174.3
62.5°	2.5	2.5	5.0	12.4	44.8	54.8	77.2	89.6	104.6	134.5
65°	0.0	0.0	2.5	5.0	10.0	29.9	39.8	52.3	74.7	94.6
67.5°	0.0	0.0	2.5	5.0	5.0	12.4	19.9	32.4	39.8	69.7
70°	0.0	0.0	2.5	5.0	5.0	10.0	12.4	14.9	27.4	37.3
72.5°	0.0	0.0	2.5	5.0	7.5	10.0	12.4	12.4	12.4	24.9
75°	0.0	0.0	2.5	5.0	7.5	10.0	12.4	12.4	10.0	10.0
77.5°	0.0	0.0	2.5	5.0	10.0	12.4	14.9	12.4	7.5	7.5
80°	0.0	0.0	2.5	7.5	12.4	17.4	19.9	14.9	7.5	5.0
82.5°	0.0	0.0	5.0	10.0	14.9	19.9	27.4	22.4	10.0	5.0
85°	0.0	0.0	2.5	7.5	14.9	19.9	39.8	27.4	12.4	2.5
87.5°	0.0	0.0	0.0	2.5	2.5	5.0	14.9	10.0	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°
227082.4	0°	227082.4	227082.4	227082.4	227082.4	227082.4	227082.4	227082.4	227082.4	227082.4
223442.1	1°	225003.3	225160.2	224647.2	225441.5	225162.7	223529.3	222989.0	222349.1	221427.8
214585.5	2°	213928.2	214727.4	214767.3	215648.7	215636.3	213731.5	213141.4	214229.5	212105.6
199023.6	3°	198421.0	199352.2	198513.1	200079.3	199608.7	197298.1	196698.0	197933.0	196389.2
179338.3	4°	178803.0	178626.2	178337.4	177446.0	178544.1	176967.9	175780.3	177456.0	174154.3
156513.3	5°	156199.6	155806.2	155243.5	154979.5	155796.2	154787.8	152345.2	154792.8	148904.2
134064.3	6°	134228.6	132535.5	132453.3	132306.4	132388.6	129565.0	129734.3	131556.9	126656.8
109760.3	7°	110920.6	111231.8	110596.9	111615.2	110838.4	108926.1	108189.1	110108.8	106645.4
92779.1	8°	92131.7	91738.3	91252.8	92774.1	91427.0	90172.1	89313.1	90829.5	88257.4
75837.7	9°	75695.8	75016.0	74523.0	74445.9	74655.0	72299.5	72777.6	73925.5	72376.7
61670.1	10°	61692.5	60577.0	60848.4	60920.7	60691.6	59147.8	59162.8	59558.7	57696.2
37824.2	12.5°	37689.8	37142.0	37278.9	37353.6	37819.3	37276.5	36509.6	35956.8	35677.9
23848.4	15°	23689.0	23295.6	24099.8	24640.2	24530.6	24047.6	23686.5	23186.1	22782.7
15853.3	17.5°	15706.4	16221.8	16224.3	16717.3	16767.1	16284.0	16005.1	15554.5	15574.4
10310.7	20°	10273.4	10487.5	10933.2	11281.8	11483.5	11115.0	10781.3	10472.6	10343.1
6429.0	22.5°	6429.0	6802.4	7081.3	7534.5	7718.7	7449.8	7213.3	6961.8	6807.4
4013.7	25°	3946.5	4212.9	4444.5	4837.9	5089.4	4959.9	4743.3	4566.5	4484.3
2592.0	27.5°	2631.8	2743.9	2858.4	3129.8	3391.3	3319.1	3231.9	3124.8	3087.5
1827.6	30°	1855.0	1864.9	1986.9	2138.8	2313.1	2357.9	2318.1	2263.3	2221.0
1342.1	32.5°	1367.0	1406.8	1464.1	1558.7	1675.7	1782.8	1762.9	1738.0	1718.0
1025.8	35°	1055.7	1115.5	1162.8	1235.0	1297.2	1399.3	1416.8	1409.3	1394.4
844.1	37.5°	861.5	913.8	961.1	1003.4	1055.7	1125.4	1180.2	1182.7	1167.8
697.2	40°	714.6	761.9	824.2	856.5	893.9	946.2	1013.4	1018.4	1013.4
590.1	42.5°	602.6	647.4	709.6	749.5	776.9	826.7	893.9	903.8	893.9
505.5	45°	517.9	545.3	610.0	657.3	684.7	717.1	789.3	799.3	796.8
435.7	47.5°	450.7	478.1	517.9	585.1	610.0	639.9	697.2	714.6	714.6
385.9	50°	395.9	423.3	458.1	517.9	555.3	580.1	627.5	652.4	652.4
336.1	52.5°	351.1	378.5	415.8	463.1	505.5	527.9	572.7	605.0	605.0
273.9	55°	293.8	341.1	368.5	410.8	468.1	488.0	522.9	565.2	565.2
239.0	57.5°	256.5	296.3	336.1	371.0	428.3	453.2	488.0	527.9	532.8
189.2	60°	216.6	254.0	301.3	331.2	385.9	418.3	455.7	493.0	503.0
144.4	62.5°	171.8	221.6	254.0	296.3	348.6	390.9	420.8	458.1	473.1
112.0	65°	127.0	181.8	219.1	263.9	313.7	358.5	383.4	423.3	433.2
79.7	67.5°	92.1	141.9	186.7	229.1	276.4	321.2	346.1	381.0	388.4
49.8	70°	72.2	104.6	154.4	191.7	241.5	278.9	306.3	328.7	336.1
32.4	72.5°	42.3	79.7	124.5	166.8	211.6	236.5	256.5	276.4	281.4
14.9	75°	27.4	62.2	102.1	139.4	171.8	194.2	211.6	229.1	231.6
7.5	77.5°	17.4	44.8	82.2	117.0	132.0	159.4	174.3	184.3	179.3
5.0	80°	10.0	34.9	72.2	94.6	107.1	124.5	139.4	151.9	139.4
5.0	82.5°	7.5	29.9	59.8	79.7	79.7	99.6	107.1	107.1	102.1
2.5	85°	5.0	24.9	47.3	74.7	59.8	74.7	69.7	69.7	69.7
2.5	87.5°	5.0	17.4	22.4	32.4	27.4	32.4	32.4	37.3	37.3
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
227082.4
219814.3
209620.6
192447.7
171390.5
148343.9
126273.3
104887.5
86499.5
70340.0
56864.6
35620.7
22929.6
15442.4
10365.5
6827.3
4464.4
3062.6
2226.0
1718.0
1384.4
1165.3
1010.9
896.4
796.8
717.1
654.8
605.0
567.7
530.4
503.0
475.6
430.8
383.4
336.1
281.4
229.1
179.3
136.9
99.6
67.2
37.3
0.0

(END OF REPORT)