

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: P637035

Luminaire Tested: **IFLD-S-SA3D-727-U-33-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P637035  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3D-727-U-33-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 3 distribution lens and Visor  
Light Source: (48) 2700K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 19384.1 lumens  
Efficiency: N/A  
Efficacy: 105.3 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

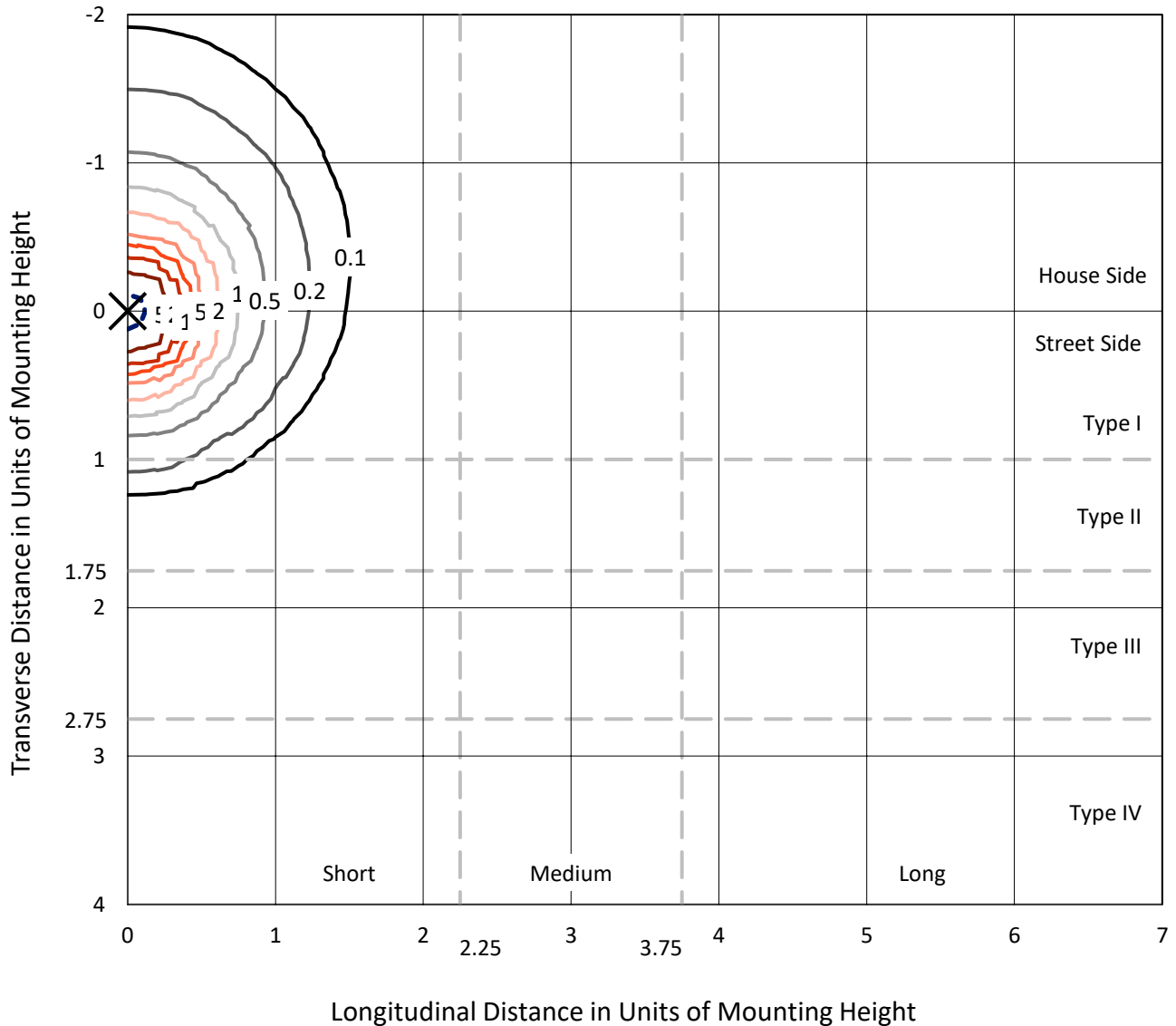
Input Watts (W): 184.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

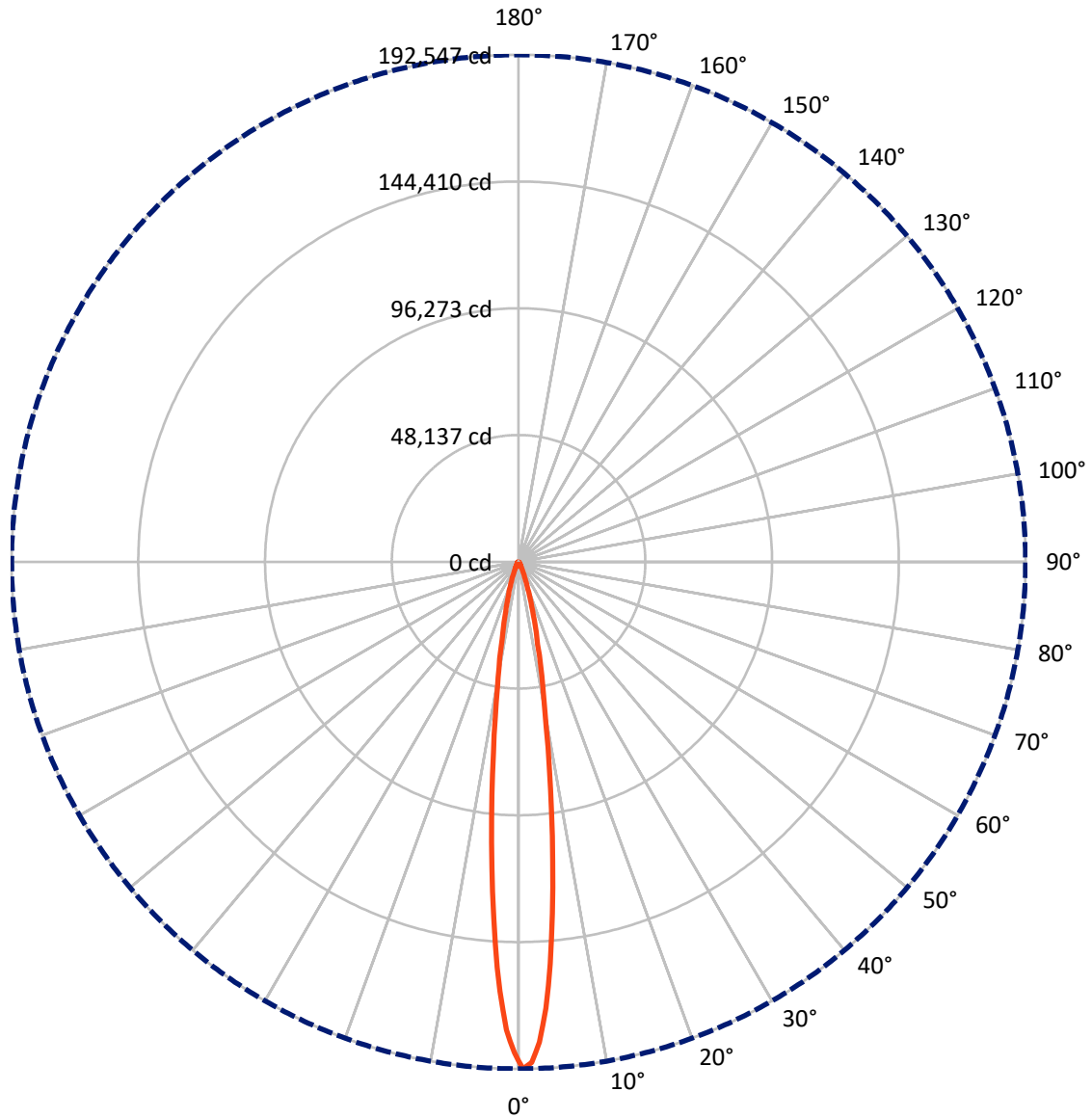
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 481.4 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
<b>House Side</b>	Lumens	9928.2	0.0	9928.2
	% Fixture	51.2	0.0	51.2
<b>Street Side</b>	Lumens	9455.9	0.0	9455.9
	% Fixture	48.8	0.0	48.8
<b>Total</b>	Lumens	19384.1	0.0	19384.1
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	9785.7	50.5
10°-20°	6264.7	32.3
20°-30°	1883.1	9.7
30°-40°	613.1	3.2
40°-50°	356.7	1.8
50°-60°	237.0	1.2
60°-70°	142.6	0.7
70°-80°	73.3	0.4
80°-90°	27.8	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°	19384.1	100.0
0°-180°	19384.1	100.0

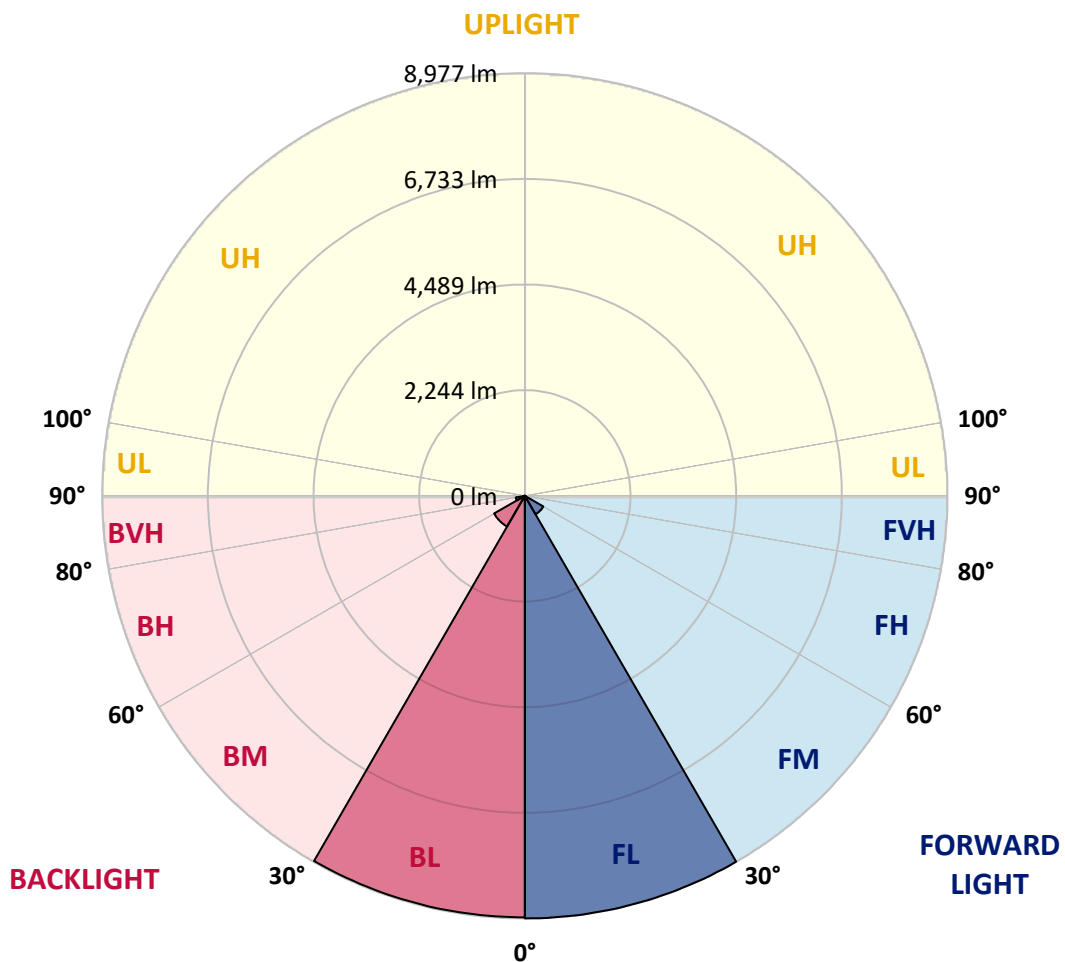


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	8977.4	46.3			
FM (30°-60°)	453.0	2.3			
FH (60°-80°)	21.3	0.1			G0/660
FVH (80°-90°)	4.2	0.0			G0/10
BL (0°-30°)	8956.1	46.2	B5		
BM (30°-60°)	753.8	3.9	B1/1000		
BH (60°-80°)	194.6	1.0	B1/500		G0/660
BVH (80°-90°)	23.6	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°	192546.9	192546.9	192546.9	192546.9	192546.9	192546.9	192546.9	192546.9	192546.9	192546.9
1°	190241.4	189660.8	188161.8	189228.0	190165.4	189893.1	189874.1	189772.7	189631.3	190741.8
2°	182636.7	182260.9	180044.1	180958.3	182290.5	181319.3	181927.4	181393.2	181403.8	182729.6
3°	169817.3	170022.1	166485.8	168147.3	169998.9	167644.9	168375.3	169747.6	168309.9	167877.1
4°	153155.4	151377.8	149446.0	151135.0	151614.2	150244.0	151591.0	153271.6	151274.3	151363.0
5°	134133.2	132820.0	130533.5	131576.5	130387.9	130820.7	132839.0	133531.5	132138.1	130383.6
6°	114574.7	113641.5	110782.9	112286.1	111863.9	111619.0	114167.2	112056.0	112816.0	111754.1
7°	95303.3	93559.4	92155.5	93595.3	93688.2	92951.4	96259.7	95875.5	94492.6	94171.7
8°	78960.2	77220.6	76032.0	77104.5	77805.4	76648.4	78204.4	79226.3	78145.3	78242.4
9°	63685.5	63379.3	61726.2	63128.1	63890.2	62650.9	64373.7	64743.2	63731.9	64223.8
10°	52291.1	51934.3	50614.8	51182.7	52445.2	50967.4	52620.5	52740.8	51934.3	52164.4
12.5°	32314.6	32171.0	32135.1	32217.5	32200.6	32462.4	32884.6	32403.3	32339.9	31544.0
15°	20886.5	21099.7	20880.1	21302.4	21363.6	21610.6	21353.0	20964.6	20223.5	19856.2
17.5°	13034.8	13307.1	13682.9	14301.5	14920.1	14991.9	14649.9	14193.8	13834.9	13442.2
20°	7499.1	7632.1	7575.1	8316.2	9916.5	10351.4	9910.1	9430.9	8998.1	8601.2
22.5°	4659.5	4610.9	4699.6	4948.7	5470.2	6815.1	6454.1	5974.8	5660.2	5333.0
25°	2856.5	2909.3	2875.5	3012.7	3247.1	3817.1	3899.5	3692.6	3532.1	3363.2
27.5°	1838.9	1838.9	1853.7	1929.7	2090.1	2071.1	2510.3	2349.8	2263.2	2180.9
30°	1277.3	1281.5	1281.5	1325.9	1361.7	1298.4	1412.4	1619.3	1579.2	1515.9
32.5°	947.9	960.6	971.2	994.4	964.8	897.3	924.7	1165.4	1142.2	1119.0
35°	722.0	732.6	757.9	770.6	728.4	686.2	660.8	857.2	867.7	861.4
37.5°	525.7	532.0	578.5	627.0	578.5	540.5	525.7	658.7	709.4	703.0
40°	403.2	405.4	413.8	468.7	468.7	439.1	443.4	491.9	580.6	580.6
42.5°	346.2	346.2	354.7	346.2	348.4	380.0	390.6	396.9	491.9	491.9
45°	299.8	299.8	304.0	282.9	261.8	327.2	335.7	337.8	413.8	424.4
47.5°	251.2	251.2	259.7	232.2	221.7	259.7	282.9	289.2	356.8	365.2
50°	185.8	187.9	213.2	190.0	196.3	200.6	244.9	249.1	301.9	320.9
52.5°	124.6	124.6	128.8	147.8	171.0	164.7	198.5	213.2	240.7	266.0
55°	101.3	101.3	99.2	95.0	126.7	137.2	145.7	177.3	196.3	228.0
57.5°	69.7	73.9	67.6	78.1	82.3	103.5	109.8	139.3	149.9	192.1
60°	8.4	10.6	14.8	57.0	54.9	69.7	82.3	109.8	122.5	147.8
62.5°	2.1	2.1	4.2	10.6	38.0	46.4	65.4	76.0	88.7	114.0
65°	0.0	0.0	2.1	4.2	8.4	25.3	33.8	44.3	63.3	80.2
67.5°	0.0	0.0	2.1	4.2	4.2	10.6	16.9	27.4	33.8	59.1
70°	0.0	0.0	2.1	4.2	4.2	8.4	10.6	12.7	23.2	31.7
72.5°	0.0	0.0	2.1	4.2	6.3	8.4	10.6	10.6	10.6	21.1
75°	0.0	0.0	2.1	4.2	6.3	8.4	10.6	10.6	8.4	8.4
77.5°	0.0	0.0	2.1	4.2	8.4	10.6	12.7	10.6	6.3	6.3
80°	0.0	0.0	2.1	6.3	10.6	14.8	16.9	12.7	6.3	4.2
82.5°	0.0	0.0	4.2	8.4	12.7	16.9	23.2	19.0	8.4	4.2
85°	0.0	0.0	2.1	6.3	12.7	16.9	33.8	23.2	10.6	2.1
87.5°	0.0	0.0	0.0	2.1	2.1	4.2	12.7	8.4	4.2	2.1
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°
192546.9	0°	192546.9	192546.9	192546.9	192546.9	192546.9	192546.9	192546.9	192546.9
189460.3	1°	190784.0	190917.0	190482.1	191155.6	190919.1	189534.2	189076.0	188533.4
181950.6	2°	181393.2	182070.9	182104.7	182852.1	182841.5	181226.4	180726.1	181648.7
168755.4	3°	168244.4	169034.0	168322.6	169650.5	169251.5	167292.3	166783.5	167830.6
152063.9	4°	151610.0	151460.1	151215.2	150459.4	151390.4	150054.0	149047.0	150467.8
132710.2	5°	132444.2	132110.6	131633.5	131409.7	132102.2	131247.1	129176.0	131251.4
113675.3	6°	113814.7	112379.0	112309.3	112184.8	112254.4	109860.3	110003.9	111549.3
93067.5	7°	94051.4	94315.3	93776.9	94640.4	93981.7	92360.3	91735.3	93363.1
78668.9	8°	78120.0	77786.4	77374.7	78664.7	77522.5	76458.4	75730.1	77015.8
64304.0	9°	64183.7	63607.3	63189.3	63123.9	63301.2	61304.0	61709.3	62682.6
52291.1	10°	52310.1	51364.3	51594.4	51655.6	51461.4	50152.4	50165.1	50500.8
32071.8	12.5°	31957.8	31493.3	31609.4	31672.8	32067.6	31607.3	30957.1	30488.4
20221.4	15°	20086.3	19752.7	20434.7	20892.8	20799.9	20390.3	20084.2	19659.8
13442.2	17.5°	13317.7	13754.7	13756.8	14174.8	14217.1	13807.5	13571.0	13188.9
8742.6	20°	8711.0	8892.5	9270.4	9566.0	9737.0	9424.6	9141.7	8879.9
5451.2	22.5°	5451.2	5767.9	6004.4	6388.6	6544.8	6316.8	6116.3	5903.0
3403.3	25°	3346.3	3572.2	3768.6	4102.1	4315.4	4205.6	4021.9	3872.0
2197.8	27.5°	2231.6	2326.6	2423.7	2653.8	2875.5	2814.3	2740.4	2649.6
1549.6	30°	1572.9	1581.3	1684.8	1813.6	1961.3	1999.3	1965.6	1919.1
1138.0	32.5°	1159.1	1192.8	1241.4	1321.6	1420.9	1511.6	1494.8	1473.6
869.8	35°	895.2	945.8	985.9	1047.2	1100.0	1186.5	1201.3	1195.0
715.7	37.5°	730.5	774.8	814.9	850.8	895.2	954.3	1000.7	1002.8
591.1	40°	605.9	646.0	698.8	726.3	757.9	802.3	859.3	863.5
500.4	42.5°	510.9	548.9	601.7	635.5	658.7	700.9	757.9	766.4
428.6	45°	439.1	462.4	517.3	557.4	580.6	608.0	669.3	677.7
369.5	47.5°	382.1	405.4	439.1	496.1	517.3	542.6	591.1	605.9
327.2	50°	335.7	358.9	388.5	439.1	470.8	491.9	532.0	553.1
285.0	52.5°	297.7	320.9	352.6	392.7	428.6	447.6	485.6	513.0
232.2	55°	249.1	289.2	312.5	348.4	396.9	413.8	443.4	479.3
202.7	57.5°	217.5	251.2	285.0	314.6	363.1	384.2	413.8	447.6
160.5	60°	183.7	215.3	255.5	280.8	327.2	354.7	386.4	418.0
122.5	62.5°	145.7	187.9	215.3	251.2	295.6	331.5	356.8	388.5
95.0	65°	107.7	154.1	185.8	223.8	266.0	304.0	325.1	358.9
67.6	67.5°	78.1	120.3	158.3	194.2	234.3	272.3	293.5	323.0
42.2	70°	61.2	88.7	130.9	162.6	204.8	236.5	259.7	278.7
27.4	72.5°	35.9	67.6	105.6	141.5	179.5	200.6	217.5	234.3
12.7	75°	23.2	52.8	86.6	118.2	145.7	164.7	179.5	194.2
6.3	77.5°	14.8	38.0	69.7	99.2	111.9	135.1	147.8	156.2
4.2	80°	8.4	29.6	61.2	80.2	90.8	105.6	118.2	128.8
4.2	82.5°	6.3	25.3	50.7	67.6	67.6	84.4	90.8	90.8
2.1	85°	4.2	21.1	40.1	63.3	50.7	63.3	59.1	59.1
2.1	87.5°	4.2	14.8	19.0	27.4	23.2	27.4	27.4	31.7
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
192546.9  
186384.2  
177740.8  
163179.6  
145324.9  
125783.3  
107069.3  
88935.8  
73344.4  
59642.4  
48216.4  
30203.4  
19442.4  
13093.9  
8789.1  
5789.0  
3785.4  
2596.8  
1887.4  
1456.8  
1173.8  
988.1  
857.2  
760.0  
675.6  
608.0  
555.3  
513.0  
481.4  
449.7  
426.5  
403.2  
365.2  
325.1  
285.0  
238.6  
194.2  
152.0  
116.1  
84.4  
57.0  
31.7  
0.0

(END OF REPORT)