

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: P638032

Luminaire Tested: **IFLD-M-SA4E-830-U-66-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P638032  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4E-830-U-66-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor  
Light Source: (64) 3000K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 24257.7 lumens  
Efficiency: N/A  
Efficacy: 77.1 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B5 - U0 - G2

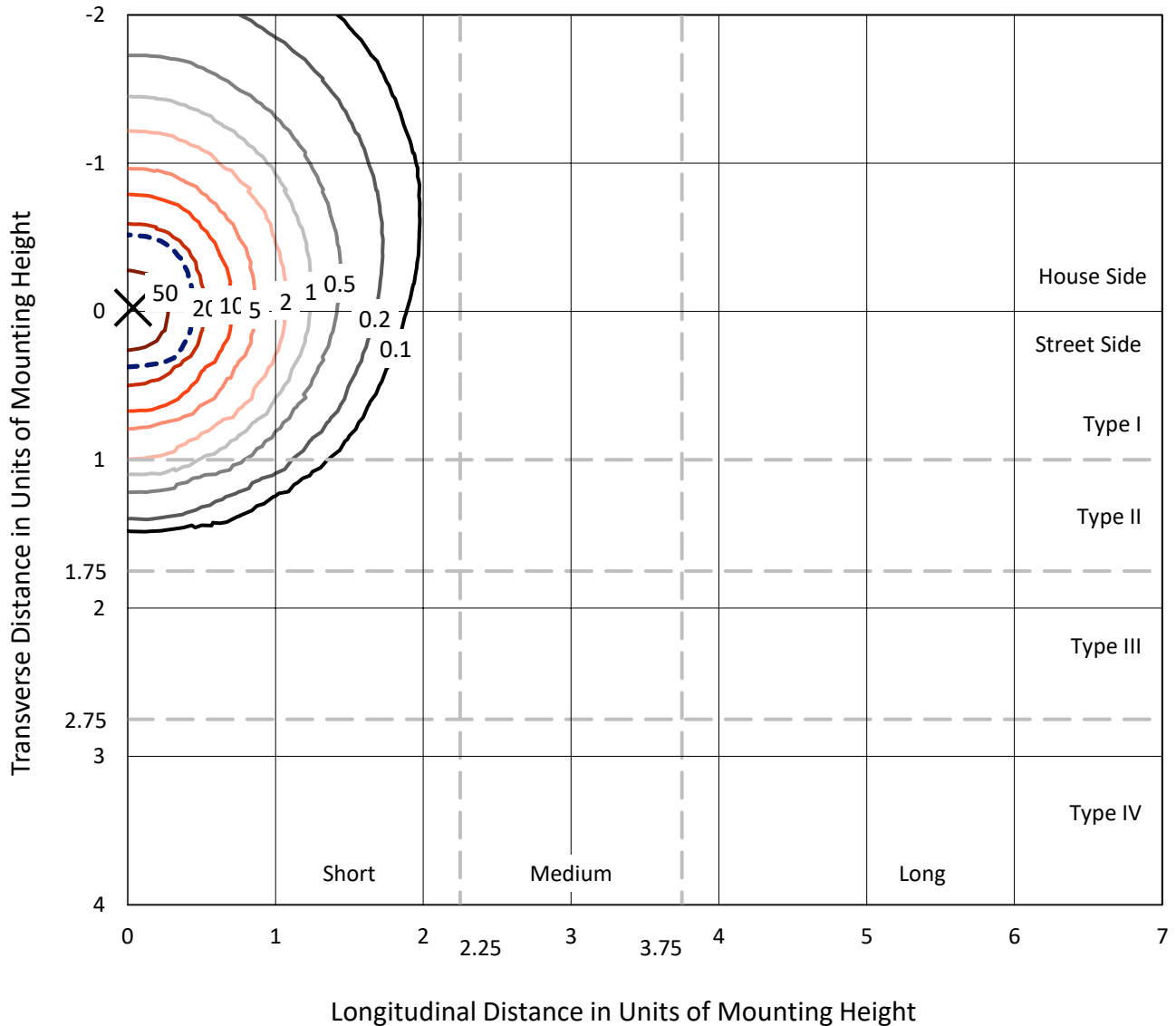
Input Watts (W): 314.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

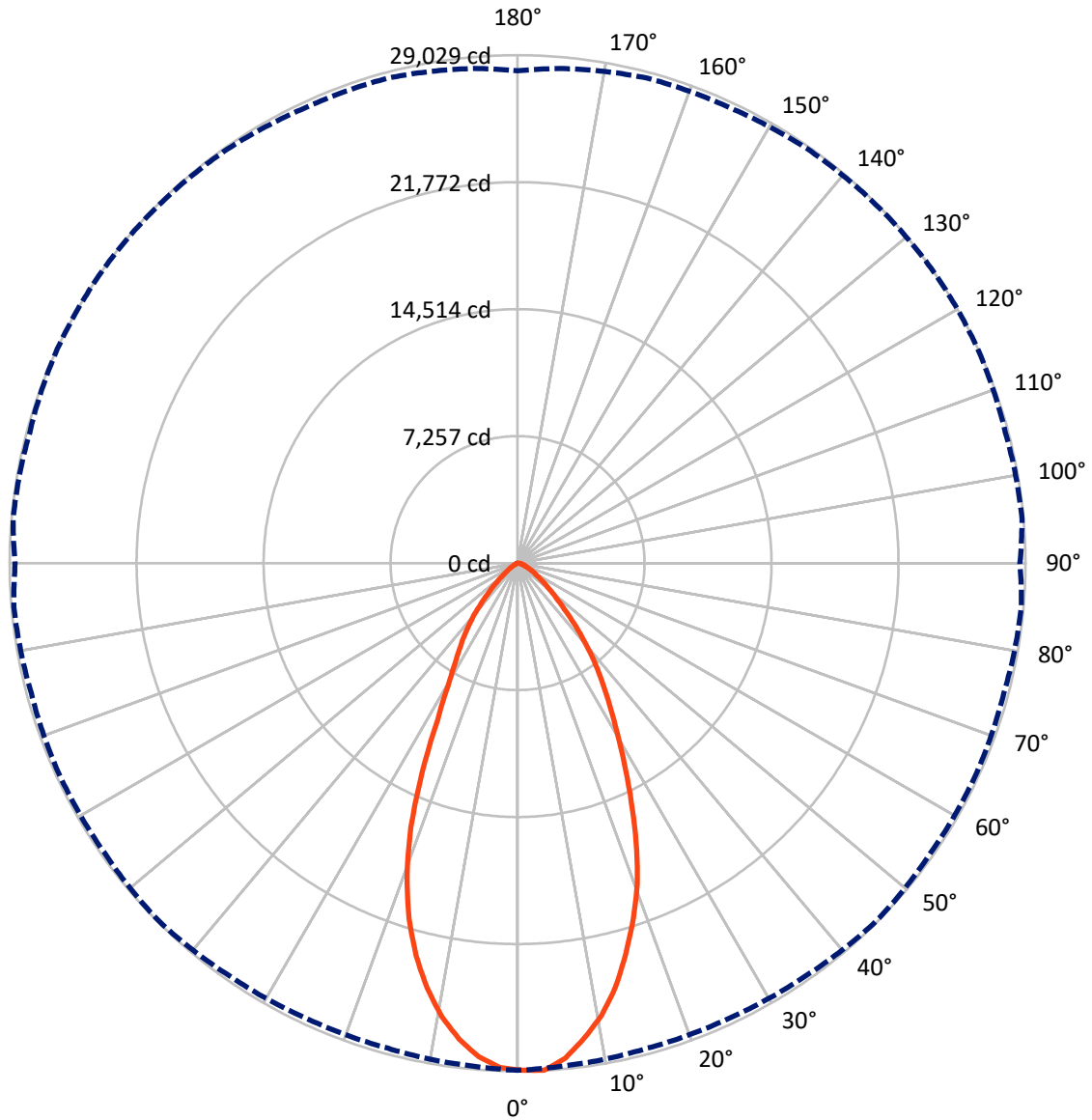
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 72.5 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
<b>House Side</b>	Lumens	13764.8	0.0	13764.8
	% Fixture	56.7	0.0	56.7
<b>Street Side</b>	Lumens	10492.9	0.0	10492.9
	% Fixture	43.3	0.0	43.3
<b>Total</b>	Lumens	24257.7	0.0	24257.7
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2631.7	10.8
10°-20°	6273.3	25.9
20°-30°	6389.3	26.3
30°-40°	4764.5	19.6
40°-50°	2489.1	10.3
50°-60°	1046.9	4.3
60°-70°	427.6	1.8
70°-80°	179.9	0.7
80°-90°	55.4	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°	24257.7	100.0
0°-180°	24257.7	100.0



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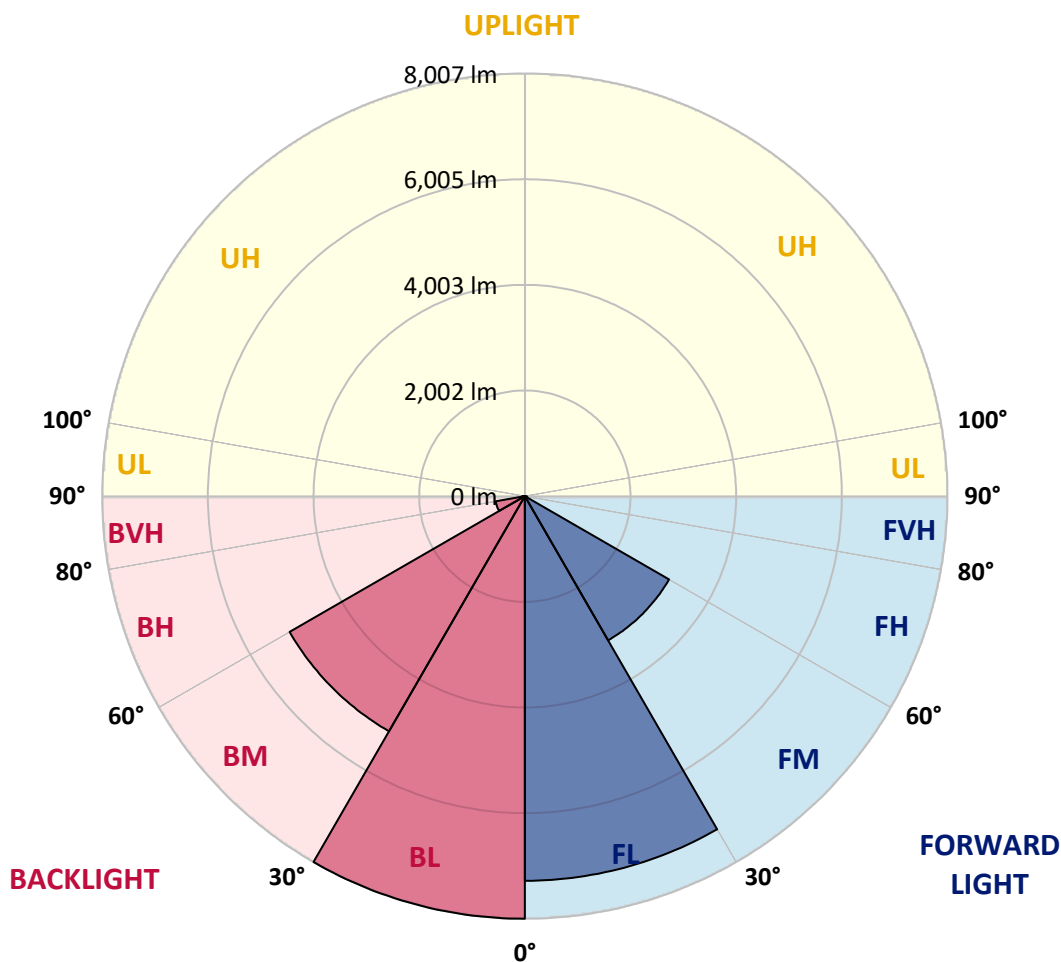
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	7287.3	30.0			
FM (30°-60°)	3154.8	13.0			
FH (60°-80°)	45.6	0.2			G0/660
FVH (80°-90°)	5.1	0.0			G0/10
BL (0°-30°)	8007.0	33.0	B5		
BM (30°-60°)	5145.6	21.2	B4/8500		
BH (60°-80°)	561.9	2.3	B2/1000		G2/1000
BVH (80°-90°)	50.3	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-G2**

Type I Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	28982.0	28982.0	28982.0	28982.0	28982.0	28982.0	28982.0	28982.0	28982.0	28982.0
2.5°	28985.2	28866.8	28698.5	28682.9	28770.2	28960.2	28838.7	28844.9	28770.2	28897.9
5°	28530.2	28418.0	28302.8	28150.1	28277.8	28358.8	28296.5	28228.0	28131.4	28256.0
7.5°	27670.2	27607.9	27436.5	27367.9	27445.8	27536.2	27402.2	27383.5	27249.5	27411.6
10°	26355.2	26330.3	26162.1	26121.5	26190.1	26327.2	26268.0	26255.5	26171.4	26155.8
12.5°	24990.4	24893.8	24685.1	24672.6	24775.4	24981.1	24822.2	24669.5	24716.2	24756.7
15°	21475.6	21372.7	21890.0	22703.3	23130.2	23114.6	23161.3	22977.5	22921.4	22940.1
17.5°	17072.6	16898.1	17085.1	18344.0	20372.5	21550.4	21226.3	20830.6	20618.7	20478.4
20°	14735.6	14745.0	14710.7	15034.8	16299.9	18985.9	18908.0	18144.5	17867.2	17751.9
22.5°	13314.7	13261.8	13187.0	13289.8	13629.4	15206.1	16262.5	15561.4	15464.8	15337.0
25°	11921.9	11921.9	11831.5	11934.3	12030.9	12052.7	13112.2	13398.9	13211.9	13211.9
27.5°	10716.0	10653.7	10613.1	10659.9	10532.1	9918.3	10052.3	11519.9	11392.1	11314.2
30°	9519.4	9500.7	9432.2	9494.5	9020.9	8329.1	8048.7	9722.0	9856.0	9827.9
32.5°	7858.6	7933.4	8238.7	8335.3	7525.2	6967.4	6699.4	8070.5	8606.4	8584.6
35°	5340.8	5403.2	5752.2	6905.1	6238.3	5839.4	5761.5	6419.0	7300.8	7385.0
37.5°	4253.4	4244.0	4343.7	4549.4	5013.7	4917.1	4895.3	5066.6	5954.7	5992.1
40°	3505.5	3493.1	3489.9	3321.7	3206.4	4088.2	4029.0	3926.2	4695.8	4770.6
42.5°	2826.2	2838.7	2848.0	2480.3	2312.1	3153.4	3119.1	3013.2	3683.1	3770.4
45°	2218.6	2215.5	2234.2	1847.8	1801.1	2016.1	2330.8	2246.6	2779.5	2873.0
47.5°	1149.8	1190.3	1442.7	1430.3	1452.1	1430.3	1763.7	1741.9	2090.8	2240.4
50°	772.8	785.2	807.0	810.2	1143.6	1053.2	1196.5	1355.5	1464.5	1695.1
52.5°	598.3	607.6	551.5	517.3	701.1	779.0	785.2	937.9	1022.1	1255.8
55°	333.4	373.9	402.0	405.1	386.4	576.5	573.3	694.9	760.3	916.1
57.5°	43.6	53.0	81.0	261.7	258.6	320.9	402.0	504.8	542.2	669.9
60°	3.1	6.2	9.3	40.5	171.4	187.0	274.2	314.7	377.0	470.5
62.5°	0.0	0.0	3.1	9.3	34.3	109.1	143.3	165.1	221.2	308.5
65°	0.0	0.0	3.1	6.2	12.5	40.5	56.1	90.4	130.9	190.1
67.5°	0.0	0.0	3.1	6.2	9.3	15.6	24.9	40.5	68.6	115.3
70°	0.0	0.0	3.1	6.2	9.3	12.5	18.7	24.9	37.4	62.3
72.5°	0.0	0.0	3.1	3.1	6.2	15.6	15.6	18.7	24.9	34.3
75°	0.0	0.0	3.1	6.2	9.3	15.6	15.6	15.6	18.7	21.8
77.5°	0.0	0.0	3.1	6.2	9.3	15.6	12.5	15.6	15.6	15.6
80°	0.0	0.0	3.1	6.2	9.3	15.6	18.7	15.6	12.5	12.5
82.5°	0.0	0.0	3.1	9.3	9.3	21.8	21.8	21.8	9.3	9.3
85°	0.0	0.0	6.2	9.3	15.6	24.9	24.9	18.7	9.3	6.2
87.5°	0.0	0.0	3.1	6.2	6.2	12.5	18.7	15.6	6.2	3.1
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°
28982.0	0°	28982.0	28982.0	28982.0	28982.0	28982.0	28982.0	28982.0	28982.0	28982.0
28711.0	2.5°	28941.5	28863.6	29010.1	29028.8	28966.5	28888.6	28707.8	28692.3	28377.5
28075.3	5°	28393.1	28265.4	28358.8	28421.2	28399.4	28315.2	28240.4	28171.9	27888.3
27043.9	7.5°	27371.1	27324.3	27367.9	27414.7	27505.1	27414.7	27383.5	27311.9	27031.4
26028.1	10°	26236.8	26149.6	26314.7	26292.9	26268.0	26243.1	26112.2	26124.7	25794.4
24644.6	12.5°	24844.0	24697.5	24856.4	24875.1	24856.4	24769.2	24622.7	24685.1	24382.8
22774.9	15°	22971.3	22955.7	23071.0	23145.8	23198.7	23105.2	23055.4	23086.5	22905.8
20369.4	17.5°	20671.6	20874.2	21251.2	21379.0	21382.1	21478.7	21450.6	21413.2	21279.3
17705.2	20°	17966.9	18356.4	18936.0	19531.2	19702.6	19621.5	19584.1	19652.7	19453.3
15203.0	22.5°	15471.0	15804.4	16477.5	17346.8	17848.5	17898.4	17889.0	17829.8	17751.9
13199.4	25°	13352.1	13648.1	14293.2	15087.7	16050.6	16193.9	16200.2	16181.5	16112.9
11382.8	27.5°	11563.5	11921.9	12277.1	12987.5	14012.7	14604.8	14530.0	14508.2	14483.2
9849.7	30°	9943.2	10395.0	10728.4	11170.9	12090.1	12890.9	12968.8	12931.5	12872.3
8581.5	32.5°	8659.4	8927.4	9351.2	9650.3	10310.9	11217.6	11516.8	11488.7	11435.8
7437.9	35°	7543.9	7649.8	7983.2	8316.6	8756.0	9634.7	10077.2	10014.9	10005.5
6060.6	37.5°	6213.3	6568.6	6752.4	7088.9	7397.4	8079.8	8690.6	8662.5	8665.6
4873.4	40°	5016.8	5222.4	5587.0	5870.6	6154.1	6652.7	7332.0	7350.7	7344.4
3773.5	42.5°	3851.4	4050.8	4434.1	4742.6	4995.0	5303.5	5951.6	5973.4	6001.4
2938.4	45°	3007.0	3134.7	3415.2	3736.1	4004.1	4191.0	4683.4	4823.6	4826.7
2277.8	47.5°	2333.9	2480.3	2679.8	2988.3	3250.0	3384.0	3742.3	3932.4	3923.1
1748.1	50°	1832.2	1966.2	2128.2	2371.3	2654.8	2760.8	3025.6	3212.6	3203.3
1318.1	52.5°	1402.2	1573.6	1716.9	1903.9	2181.2	2271.6	2461.7	2676.7	2645.5
966.0	55°	1062.6	1237.1	1371.0	1526.8	1779.2	1894.5	2025.4	2196.8	2203.0
747.8	57.5°	800.8	981.5	1103.1	1262.0	1452.1	1579.8	1679.5	1863.4	1860.3
511.0	60°	573.3	729.1	875.6	1040.7	1187.2	1333.7	1402.2	1576.7	1582.9
361.5	62.5°	414.4	560.9	701.1	844.4	975.3	1118.6	1181.0	1318.1	1336.8
236.8	65°	289.8	392.6	554.7	663.7	810.2	916.1	997.1	1115.5	1137.3
140.2	67.5°	187.0	283.6	439.4	536.0	669.9	760.3	844.4	937.9	966.0
90.4	70°	112.2	215.0	327.2	430.0	551.5	632.6	713.6	794.6	810.2
43.6	72.5°	71.7	149.6	236.8	349.0	442.5	529.7	601.4	660.6	613.9
28.0	75°	40.5	102.8	187.0	274.2	358.3	442.5	501.7	532.8	426.9
18.7	77.5°	24.9	74.8	152.7	221.2	277.3	355.2	392.6	411.3	305.4
12.5	80°	15.6	56.1	127.8	180.7	180.7	261.7	305.4	320.9	221.2
9.3	82.5°	12.5	40.5	99.7	137.1	121.5	196.3	239.9	243.0	155.8
6.2	85°	9.3	31.2	62.3	90.4	84.1	137.1	140.2	155.8	102.8
6.2	87.5°	6.2	18.7	37.4	53.0	46.7	65.4	74.8	84.1	56.1
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
28982.0  
*28131.4*  
27660.9  
26972.2  
25682.2  
24295.6  
22687.7  
21079.8  
19309.9  
17602.4  
15882.3  
14336.8  
12797.5  
11295.6  
9902.7  
8565.9  
7235.4  
5908.0  
4745.7  
3888.8  
3203.3  
2648.6  
2203.0  
1854.0  
1567.4  
1330.5  
1131.1  
962.8  
797.7  
570.2  
405.1  
286.7  
205.7  
143.3  
93.5  
49.9  
0.0

(END OF REPORT)