

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: P638374

Luminaire Tested: **IFLD-S-SA6D-730-U-LAM-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638374
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6D-730-U-LAM-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens and Visor
Light Source: (96) 3000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30686 lumens
Efficiency: N/A
Efficacy: 83.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G3

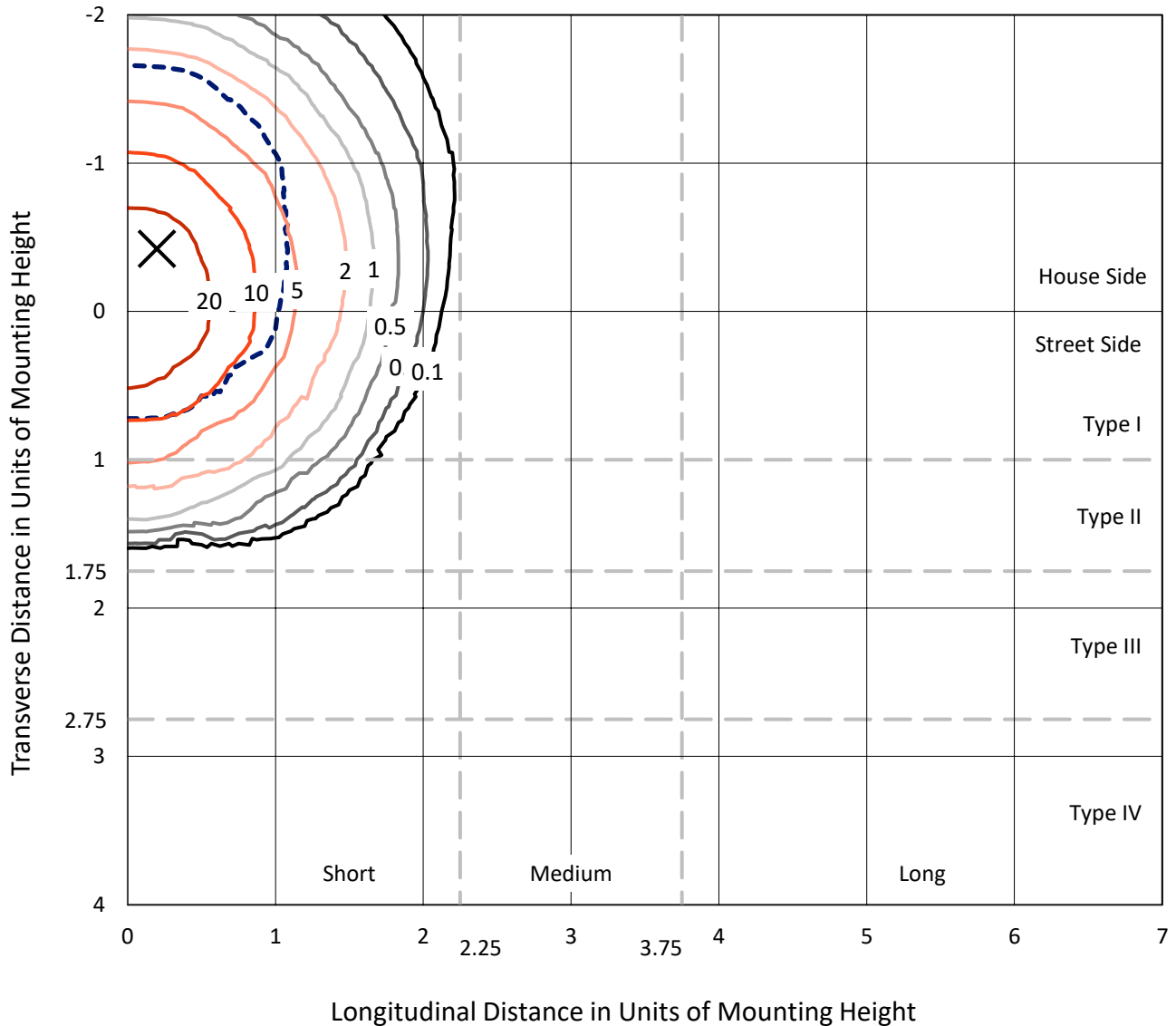
Input Watts (W): 368.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

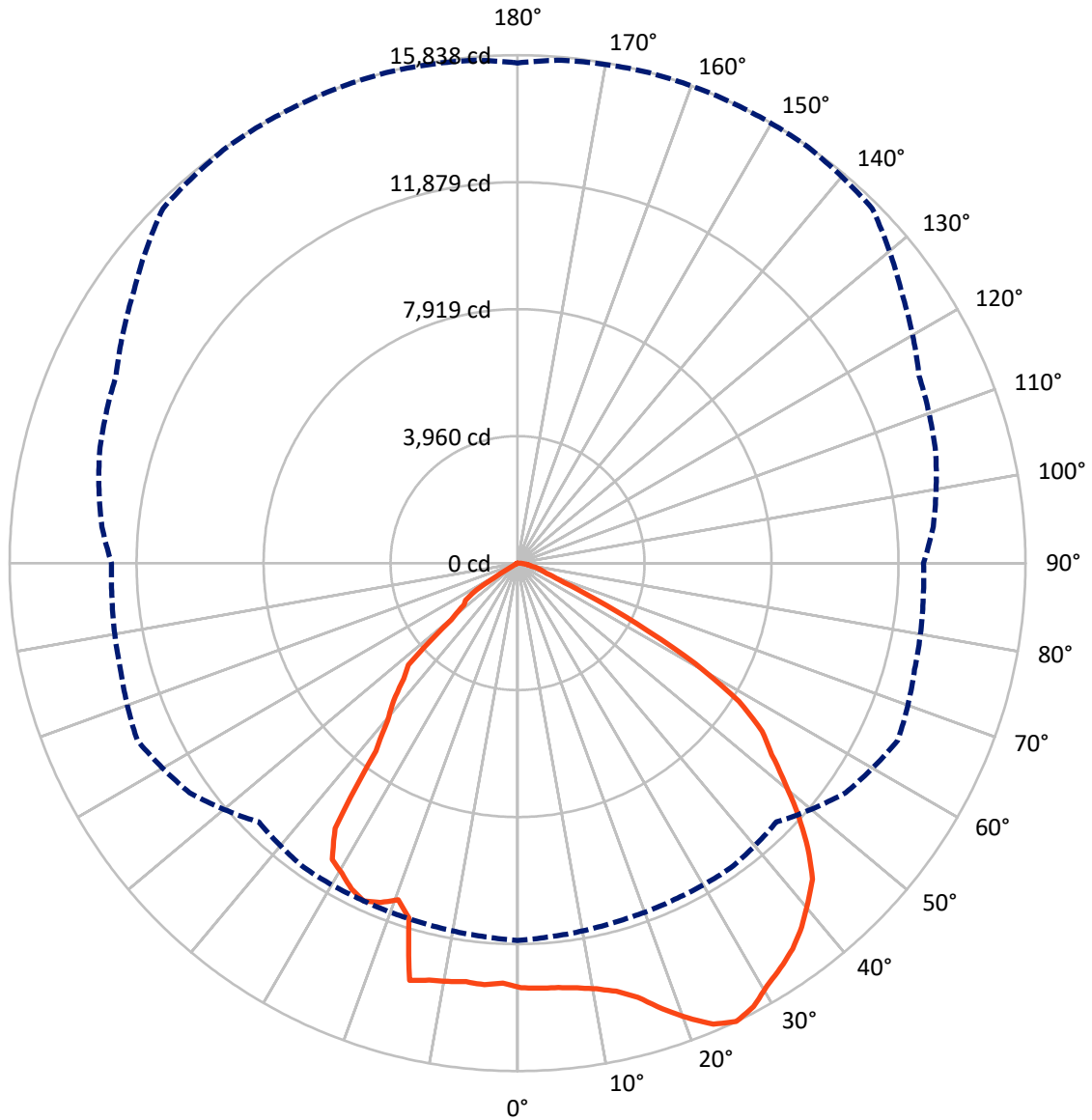
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 33.1 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 155-Deg Lateral - - - Horizontal Cone Through 25-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	18997.8	0.0	18997.8
	% Fixture	61.9	0.0	61.9
Street Side	Lumens	11688.2	0.0	11688.2
	% Fixture	38.1	0.0	38.1
Total	Lumens	30686.0	0.0	30686.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1270.2	4.1
10°-20°	3878.6	12.6
20°-30°	6131.9	20.0
30°-40°	6926.5	22.6
40°-50°	6486.8	21.1
50°-60°	4472.2	14.6
60°-70°	1201.5	3.9
70°-80°	250.4	0.8
80°-90°	67.7	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°	30686.0	100.0
0°-180°	30686.0	100.0



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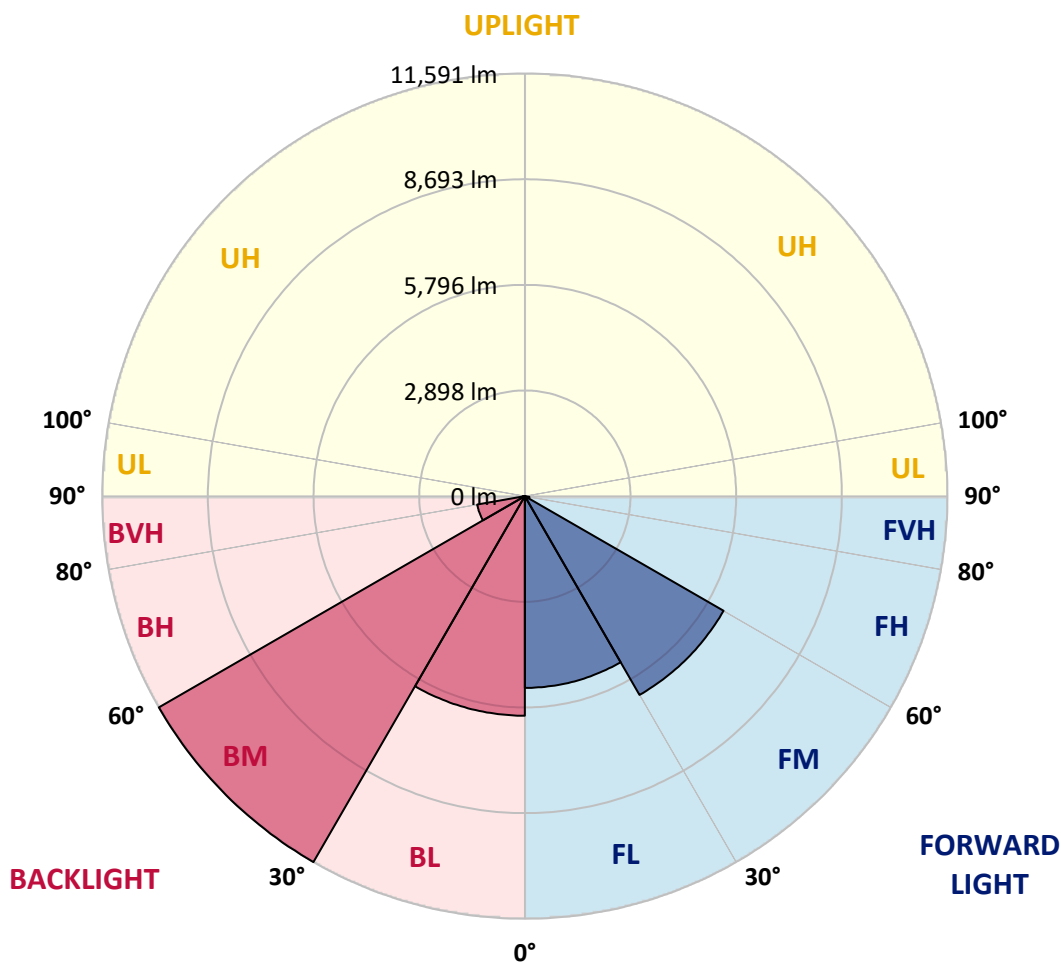
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5258.6	17.1			
FM (30°-60°)	6294.4	20.5			
FH (60°-80°)	126.1	0.4			G0/660
FVH (80°-90°)	9.1	0.0			G0/10
BL (0°-30°)	6022.2	19.6	B5		
BM (30°-60°)	11591.2	37.8	B5		
BH (60°-80°)	1325.8	4.3	B3/2500		G3/2500
BVH (80°-90°)	58.6	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-G3

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	13240.5	13240.5	13240.5	13240.5	13240.5	13240.5	13240.5	13240.5	13240.5	13240.5
2.5°	13299.1	13213.4	13132.2	13105.2	13217.9	13339.7	13263.0	13267.5	13240.5	13290.1
5°	13398.3	13281.1	13226.9	13186.3	13204.4	13330.7	13222.4	13263.0	13217.9	13276.5
7.5°	13362.2	13281.1	13226.9	13150.3	13208.9	13357.7	13254.0	13258.5	13236.0	13290.1
10°	13339.7	13281.1	13213.4	13222.4	13290.1	13416.3	13335.2	13380.3	13348.7	13380.3
12.5°	13393.8	13330.7	13294.6	13294.6	13353.2	13497.5	13456.9	13497.5	13484.0	13511.0
15°	12884.2	12942.8	13285.6	13438.9	13556.1	13700.5	13682.4	13723.0	13732.0	13772.6
17.5°	10868.4	10809.7	10782.7	11571.9	13668.9	14115.3	14101.8	14097.3	14052.2	14020.6
20°	11134.4	11111.9	11080.3	11138.9	11373.5	14331.8	14422.0	13867.3	13705.0	13691.4
22.5°	11558.3	11522.3	11405.0	11409.5	11481.7	12460.3	13975.5	13470.5	13416.3	13384.8
25°	11765.8	11693.6	11598.9	11571.9	11594.4	11414.0	12482.8	13082.6	12816.6	12694.8
27.5°	11400.5	11405.0	11328.4	11400.5	11314.8	10503.1	10047.6	12325.0	12316.0	12261.9
30°	11125.4	11111.9	11021.7	11111.9	10521.1	9614.7	9420.8	11495.2	11400.5	11328.4
32.5°	10282.1	10291.1	10552.7	10904.4	9934.9	9217.8	8631.6	10268.6	11166.0	11125.4
35°	7355.3	7373.4	8302.3	10038.6	9046.4	8428.6	8383.5	8875.1	10796.2	10814.2
37.5°	7080.2	7080.2	7057.7	7341.8	8347.4	8108.4	8198.6	8149.0	9889.8	9934.9
40°	6881.8	6841.2	6809.6	6363.2	5804.0	7882.9	7946.1	7720.6	9348.6	9357.6
42.5°	6642.8	6597.7	6606.7	5781.4	5195.2	7323.7	7147.9	6845.7	8446.7	8455.7
45°	6205.3	6282.0	6336.1	5059.9	5014.8	5231.2	6593.2	6403.8	7837.9	8004.7
47.5°	3156.8	3224.4	4947.1	4654.0	4757.7	4649.5	5569.5	5574.0	6521.0	7075.7
50°	2863.7	2845.6	2850.1	2714.8	4392.4	3761.1	4027.2	5109.5	5222.2	6015.9
52.5°	2669.7	2665.2	2390.1	2124.1	2759.9	3310.1	2922.3	3698.0	3882.8	5096.0
55°	1975.2	2119.6	1885.1	1997.8	1727.2	2651.7	2638.2	3337.2	3400.3	4085.8
57.5°	18.0	22.5	54.1	1519.8	1195.1	1325.9	1821.9	2277.4	2390.1	3183.8
60°	4.5	9.0	22.5	45.1	775.7	816.3	1217.6	1316.8	1483.7	1898.6
62.5°	0.0	0.0	9.0	22.5	40.6	333.7	387.8	423.9	653.9	969.6
65°	0.0	0.0	4.5	13.5	22.5	54.1	94.7	198.4	284.1	351.8
67.5°	0.0	0.0	4.5	9.0	18.0	27.1	54.1	76.7	121.8	207.4
70°	0.0	0.0	4.5	9.0	13.5	22.5	36.1	54.1	72.2	103.7
72.5°	0.0	0.0	4.5	9.0	9.0	27.1	27.1	40.6	54.1	67.6
75°	0.0	0.0	4.5	4.5	9.0	18.0	27.1	31.6	36.1	54.1
77.5°	0.0	0.0	4.5	9.0	13.5	18.0	22.5	36.1	31.6	31.6
80°	0.0	0.0	4.5	13.5	13.5	22.5	27.1	36.1	22.5	22.5
82.5°	0.0	0.0	4.5	18.0	13.5	45.1	45.1	49.6	18.0	18.0
85°	0.0	0.0	13.5	9.0	27.1	45.1	40.6	27.1	22.5	13.5
87.5°	0.0	0.0	4.5	4.5	9.0	13.5	31.6	27.1	9.0	9.0
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°
13240.5	0°	13240.5	13240.5	13240.5	13240.5	13240.5	13240.5	13240.5	13240.5	13240.5
13159.3	2.5°	13339.7	13281.1	13402.8	13389.3	13330.7	13303.6	13272.0	13245.0	13046.5
13168.3	5°	13344.2	13254.0	13402.8	13375.8	13366.7	13321.6	13294.6	13335.2	13154.8
13204.4	7.5°	13344.2	13254.0	13416.3	13425.4	13411.8	13375.8	13371.2	13398.3	13249.5
13267.5	10°	13434.4	13398.3	13533.6	13547.1	13529.1	13520.1	13497.5	13479.5	13321.6
13484.0	12.5°	13623.8	13551.6	13705.0	13745.6	13732.0	13754.6	13700.5	13727.5	13565.2
13705.0	15°	13853.8	13858.3	13975.5	14065.7	14056.7	14128.9	14047.7	14119.9	14002.6
13957.5	17.5°	14205.5	14255.1	14422.0	14557.3	14606.9	14661.0	14606.9	14629.5	14462.6
13677.9	20°	13835.7	14020.6	14823.4	15071.4	15175.1	15224.7	15134.5	15161.6	14994.7
13335.2	22.5°	13502.0	13741.0	14453.6	15229.2	15549.4	15648.6	15617.1	15612.6	15549.4
12658.7	25°	13010.5	13493.0	13813.2	14634.0	15639.6	15820.0	15838.0	15833.5	15738.8
12243.8	27.5°	12406.2	12514.4	13344.2	13844.8	15008.3	15693.7	15666.7	15535.9	15409.6
11382.5	30°	11635.0	12126.6	12500.9	13299.1	14192.0	15305.9	15305.9	15206.7	15075.9
11075.8	32.5°	11242.7	11878.5	12225.8	12514.4	13276.5	14873.0	15053.4	14949.6	14845.9
10836.8	35°	11035.2	11129.9	11941.7	12203.2	12848.1	14038.7	14769.3	14665.5	14588.9
10200.9	37.5°	10579.7	10800.7	11179.5	11878.5	12077.0	13357.7	14390.4	14336.3	14246.1
9375.7	40°	9565.1	10155.8	10737.6	11400.5	11608.0	12482.8	13930.4	13953.0	13831.2
8496.3	42.5°	8965.3	9366.6	10277.6	10724.1	11283.3	11919.1	13484.0	13520.1	13434.4
8049.8	45°	8261.8	8708.2	9348.6	10160.3	10922.5	11143.5	12694.8	13073.6	13001.5
7161.4	47.5°	7616.9	7977.7	8762.3	9583.1	10426.4	10394.8	11788.3	12500.9	12401.7
6480.4	50°	6701.4	7332.8	7702.6	8455.7	9713.9	9799.6	10823.3	11828.9	11747.8
5506.3	52.5°	5650.6	6444.4	7152.4	7842.4	8992.3	9195.3	9925.8	11143.5	11089.3
4207.5	55°	4938.1	5515.4	6313.6	6868.3	8117.5	8658.6	9253.9	10489.6	10462.5
3458.9	57.5°	3513.1	4626.9	5285.4	6061.0	6719.4	7698.0	8140.0	9159.2	8906.6
1916.6	60°	2381.1	2904.2	3707.0	4541.3	4983.2	5961.8	6372.2	7188.5	7120.8
1145.5	62.5°	1258.2	1740.7	2313.5	2732.9	3053.1	4004.6	4176.0	5055.4	5032.8
460.0	65°	554.7	735.1	1253.7	1470.2	1799.4	2241.3	2390.1	2705.8	2629.2
225.5	67.5°	288.6	437.4	708.0	870.4	1095.9	1262.7	1384.5	1483.7	1546.8
148.8	70°	175.9	320.2	437.4	604.3	753.1	888.4	983.1	1118.4	1199.6
76.7	72.5°	130.8	202.9	302.1	464.5	545.7	703.5	798.2	897.4	969.6
63.1	75°	72.2	135.3	243.5	365.3	437.4	572.7	658.4	726.1	748.6
36.1	77.5°	45.1	103.7	202.9	284.1	342.7	464.5	442.0	505.1	559.2
27.1	80°	31.6	76.7	157.8	234.5	239.0	297.6	351.8	405.9	442.0
18.0	82.5°	22.5	63.1	117.3	180.4	157.8	230.0	275.1	315.7	230.0
13.5	85°	18.0	45.1	58.6	108.2	90.2	162.3	139.8	135.3	90.2
9.0	87.5°	13.5	22.5	40.6	49.6	36.1	36.1	45.1	54.1	45.1
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
13240.5
12911.3
13001.5
13078.1
13190.9
13420.9
13808.7
14318.3
14877.5
15346.5
15594.5
15310.4
15026.3
14760.2
14480.6
14155.9
13804.2
13425.4
13010.5
12473.8
11761.3
11125.4
10494.1
8879.6
7125.3
5037.3
2597.6
1546.8
1204.1
983.1
735.1
568.2
446.5
166.9
90.2
45.1
0.0

(END OF REPORT)