

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: P637944

Luminaire Tested: **IFLD-M-SA4D-750-U-66-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637944
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4D-750-U-66-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor
Light Source: (64) 5000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26983.1 lumens
Efficiency: N/A
Efficacy: 108.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G2

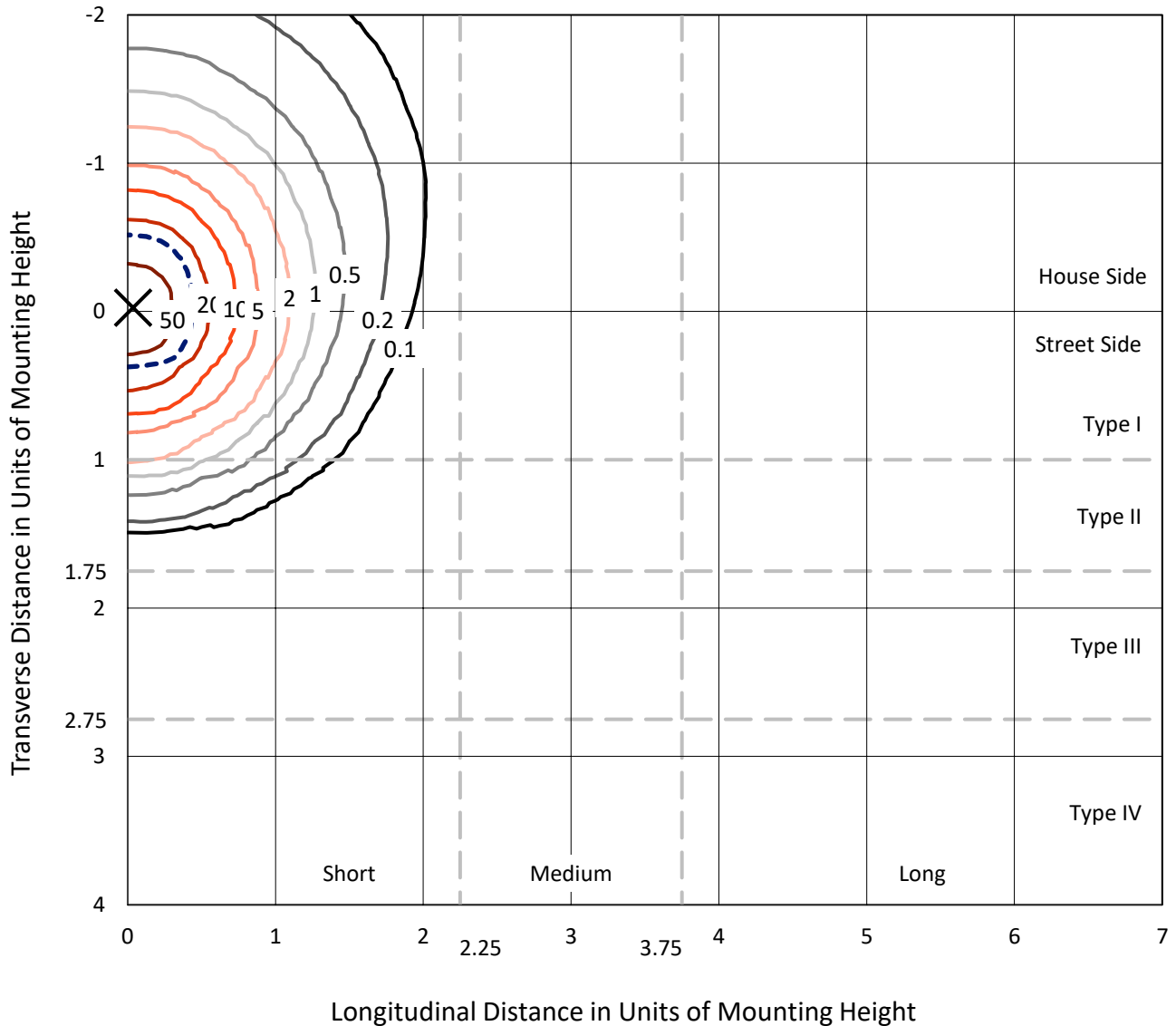
Input Watts (W): 249.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P637944
 CATALOG NUMBER: IFLD-M-SA4D-750-U-66-VI

Iso-Footcandle Lines of Horizontal Illumination

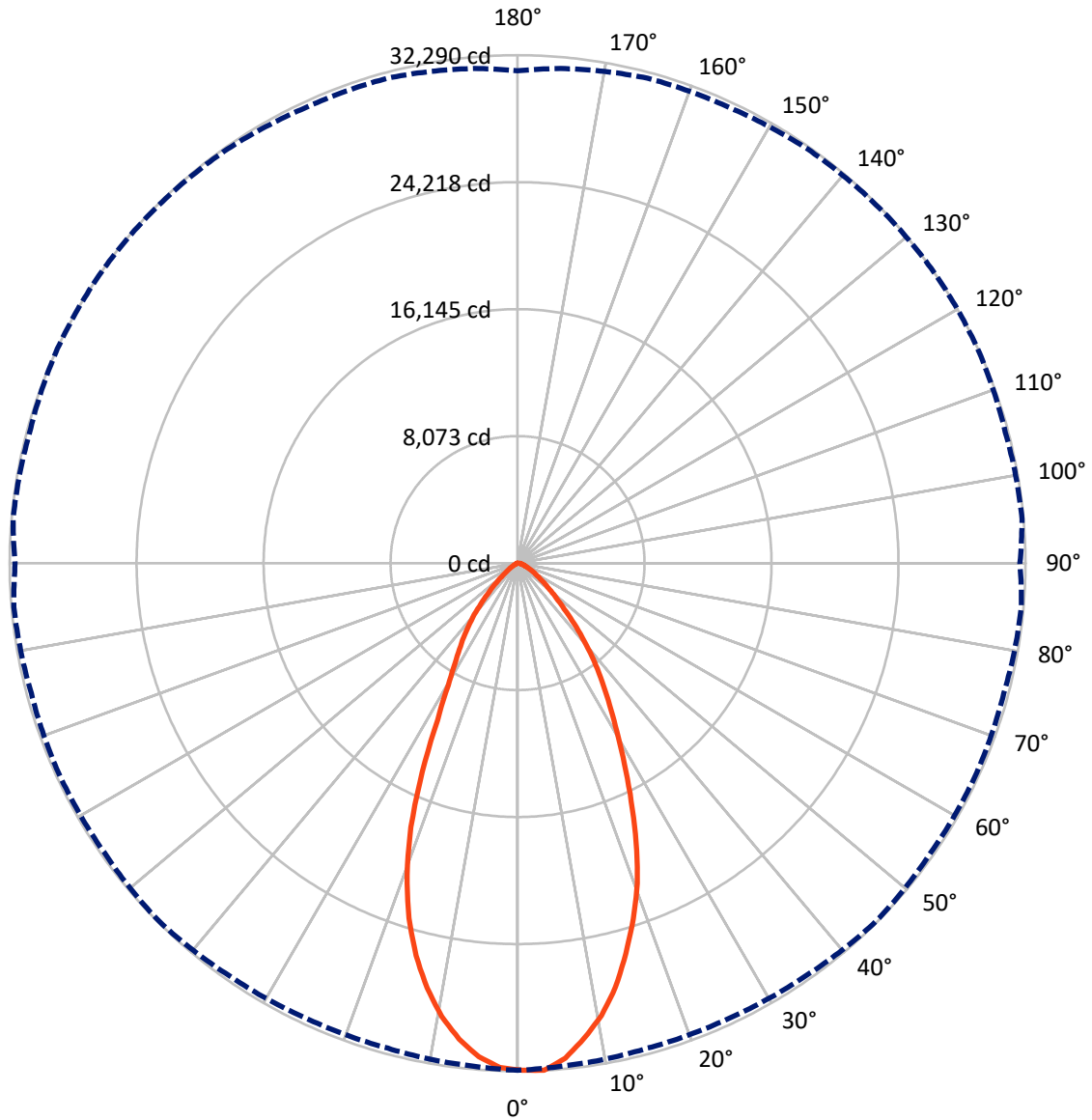
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 80.6 fc
 Type I - Short - N/A

REPORT NUMBER: P637944
CATALOG NUMBER: IFLD-M-SA4D-750-U-66-VI

Luminous Intensity Polar Plot



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

REPORT NUMBER: P637944

CATALOG NUMBER: IFLD-M-SA4D-750-U-66-VI

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15311.3	0.0	15311.3
	% Fixture	56.7	0.0	56.7
Street Side	Lumens	11671.8	0.0	11671.8
	% Fixture	43.3	0.0	43.3
Total	Lumens	26983.1	0.0	26983.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2927.4	10.8
10°-20°	6978.2	25.9
20°-30°	7107.1	26.3
30°-40°	5299.8	19.6
40°-50°	2768.7	10.3
50°-60°	1164.5	4.3
60°-70°	475.6	1.8
70°-80°	200.1	0.7
80°-90°	61.7	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°	26983.1	100.0
0°-180°	26983.1	100.0



REPORT NUMBER: P637944

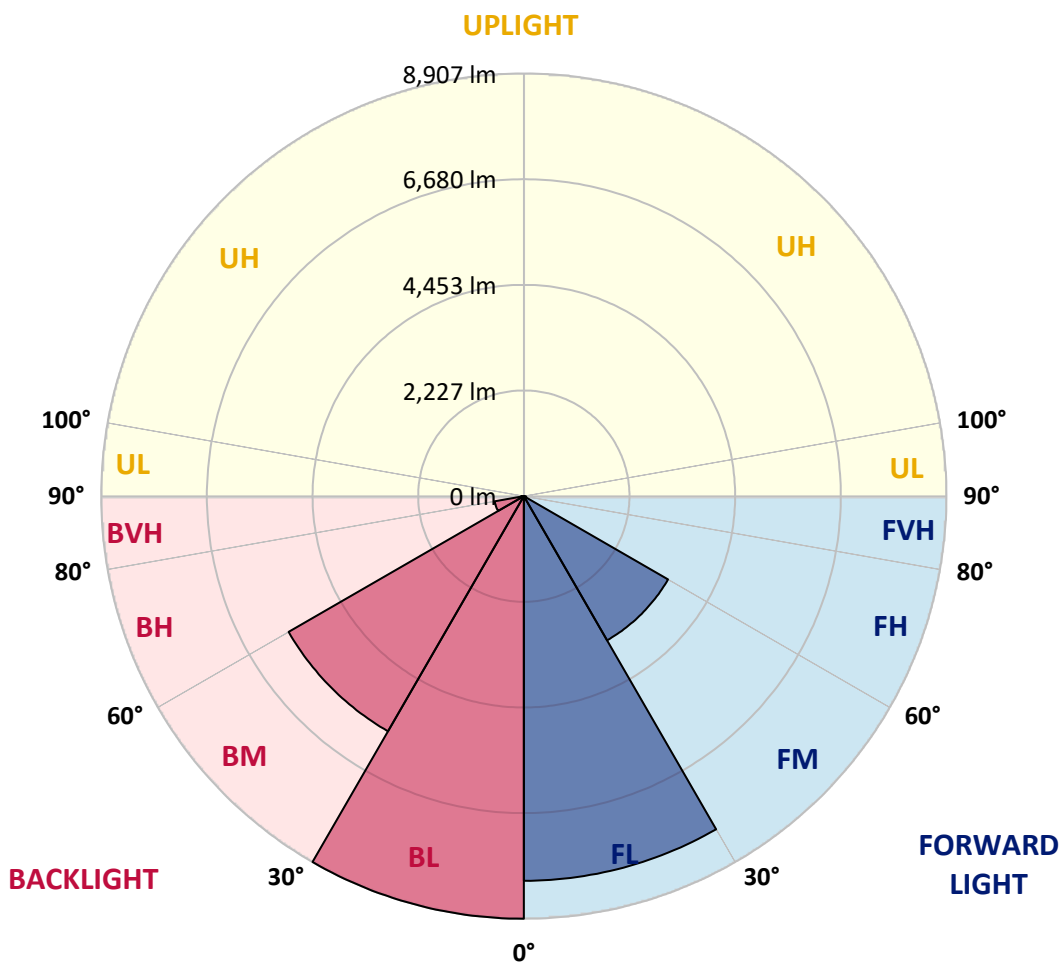
CATALOG NUMBER: IFLD-M-SA4D-750-U-66-VI

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	8106.1	30.0			
FM (30°-60°)	3509.3	13.0			
FH (60°-80°)	50.8	0.2			G0/660
FVH (80°-90°)	5.7	0.0			G0/10
BL (0°-30°)	8906.6	33.0	B5		
BM (30°-60°)	5723.8	21.2	B4/8500		
BH (60°-80°)	625.0	2.3	B2/1000		G2/1000
BVH (80°-90°)	55.9	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





REPORT NUMBER: P637944
 CATALOG NUMBER: IFLD-M-SA4D-750-U-66-VI

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	32238.2	32238.2	32238.2	32238.2	32238.2	32238.2	32238.2	32238.2	32238.2	32238.2
2.5°	32241.7	32110.0	31922.8	31905.5	32002.5	32214.0	32078.8	32085.7	32002.5	32144.7
5°	31735.7	31610.9	31482.6	31312.8	31454.9	31545.0	31475.7	31399.4	31292.0	31430.6
7.5°	30779.0	30709.7	30519.0	30442.8	30529.4	30630.0	30480.9	30460.1	30311.1	30491.3
10°	29316.3	29288.6	29101.4	29056.4	29132.6	29285.1	29219.3	29205.4	29111.8	29094.5
12.5°	27798.2	27690.7	27458.5	27444.6	27559.0	27787.8	27611.0	27441.1	27493.1	27538.2
15°	23888.4	23774.0	24349.4	25254.0	25728.9	25711.6	25763.6	25559.1	25496.7	25517.5
17.5°	18990.8	18796.7	19004.7	20405.0	22661.4	23971.6	23611.1	23170.9	22935.2	22779.2
20°	16391.2	16401.6	16363.5	16724.0	18131.2	21119.0	21032.3	20183.1	19874.6	19746.4
22.5°	14810.7	14751.7	14668.6	14782.9	15160.7	16914.6	18089.6	17309.7	17202.3	17060.2
25°	13261.3	13261.3	13160.8	13275.2	13382.6	13406.9	14585.4	14904.2	14696.3	14696.3
27.5°	11919.9	11850.6	11805.6	11857.5	11715.4	11032.6	11181.7	12814.2	12672.1	12585.4
30°	10588.9	10568.2	10491.9	10561.2	10034.4	9264.9	8952.9	10814.2	10963.3	10932.1
32.5°	8741.5	8824.7	9164.4	9271.8	8370.6	7750.2	7452.1	8977.2	9573.4	9549.1
35°	5940.9	6010.2	6398.4	7680.9	6939.1	6495.5	6408.8	7140.2	8121.1	8214.7
37.5°	4731.2	4720.8	4831.7	5060.5	5577.0	5469.5	5445.3	5635.9	6623.7	6665.3
40°	3899.4	3885.5	3882.0	3694.9	3566.6	4547.5	4481.7	4367.3	5223.4	5306.6
42.5°	3143.8	3157.6	3168.0	2759.0	2571.8	3507.7	3469.6	3351.7	4096.9	4194.0
45°	2467.9	2464.4	2485.2	2055.4	2003.4	2242.6	2592.6	2499.1	3091.8	3195.7
47.5°	1279.0	1324.1	1604.8	1590.9	1615.2	1590.9	1961.8	1937.6	2325.8	2492.1
50°	859.6	873.5	897.7	901.2	1272.1	1171.5	1331.0	1507.8	1629.1	1885.6
52.5°	665.5	675.9	613.5	575.4	779.9	866.5	873.5	1043.3	1136.9	1396.8
55°	370.9	415.9	447.1	450.6	429.8	641.2	637.8	772.9	845.7	1019.0
57.5°	48.5	58.9	90.1	291.2	287.7	357.0	447.1	561.5	603.1	745.2
60°	3.5	6.9	10.4	45.1	190.6	208.0	305.0	350.1	419.4	523.4
62.5°	0.0	0.0	3.5	10.4	38.1	121.3	159.4	183.7	246.1	343.1
65°	0.0	0.0	3.5	6.9	13.9	45.1	62.4	100.5	145.6	211.4
67.5°	0.0	0.0	3.5	6.9	10.4	17.3	27.7	45.1	76.3	128.2
70°	0.0	0.0	3.5	6.9	10.4	13.9	20.8	27.7	41.6	69.3
72.5°	0.0	0.0	3.5	3.5	6.9	17.3	17.3	20.8	27.7	38.1
75°	0.0	0.0	3.5	6.9	10.4	17.3	17.3	17.3	20.8	24.3
77.5°	0.0	0.0	3.5	6.9	10.4	17.3	13.9	17.3	17.3	17.3
80°	0.0	0.0	3.5	6.9	10.4	17.3	20.8	17.3	13.9	13.9
82.5°	0.0	0.0	3.5	10.4	10.4	24.3	24.3	24.3	10.4	10.4
85°	0.0	0.0	6.9	10.4	17.3	27.7	27.7	20.8	10.4	6.9
87.5°	0.0	0.0	3.5	6.9	6.9	13.9	20.8	17.3	6.9	3.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P637944

CATALOG NUMBER: IFLD-M-SA4D-750-U-66-VI

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
32238.2	0°	32238.2	32238.2	32238.2	32238.2	32238.2	32238.2	32238.2	32238.2	32238.2
31936.7	2.5°	32193.2	32106.5	32269.4	32290.2	32220.9	32134.3	31933.2	31915.9	31565.8
31229.6	5°	31583.1	31441.0	31545.0	31614.3	31590.1	31496.5	31413.3	31337.1	31021.6
30082.3	7.5°	30446.3	30394.3	30442.8	30494.8	30595.3	30494.8	30460.1	30380.4	30068.5
28952.4	10°	29184.6	29087.5	29271.3	29247.0	29219.3	29191.5	29046.0	29059.8	28692.4
27413.4	12.5°	27635.3	27472.3	27649.1	27669.9	27649.1	27552.1	27389.2	27458.5	27122.3
25333.8	15°	25552.1	25534.8	25663.0	25746.2	25805.1	25701.2	25645.7	25680.4	25479.3
22657.9	17.5°	22994.1	23219.4	23638.8	23780.9	23784.4	23891.9	23860.7	23819.1	23670.0
19694.4	20°	19985.6	20418.8	21063.5	21725.5	21916.2	21826.1	21784.5	21860.7	21638.9
16911.1	22.5°	17209.2	17580.1	18328.8	19295.8	19853.8	19909.3	19898.9	19833.0	19746.4
14682.4	25°	14852.3	15181.5	15899.0	16782.9	17853.9	18013.3	18020.3	17999.5	17923.2
12661.7	27.5°	12862.7	13261.3	13656.5	14446.7	15587.1	16245.6	16162.4	16138.2	16110.5
10956.4	30°	11060.3	11562.9	11933.8	12426.0	13448.5	14339.3	14425.9	14384.3	14318.5
9545.7	32.5°	9632.3	9930.4	10401.8	10734.5	11469.3	12478.0	12810.7	12779.5	12720.6
8273.6	35°	8391.4	8509.3	8880.2	9251.0	9739.8	10717.2	11209.4	11140.1	11129.7
6741.6	37.5°	6911.4	7306.5	7511.0	7885.4	8228.5	8987.6	9667.0	9635.8	9639.2
5421.0	40°	5580.4	5809.2	6214.7	6530.1	6845.6	7400.1	8155.7	8176.5	8169.6
4197.5	42.5°	4284.1	4505.9	4932.3	5275.4	5556.2	5899.3	6620.3	6644.5	6675.7
3268.5	45°	3344.8	3486.9	3798.9	4155.9	4453.9	4661.9	5209.6	5365.5	5369.0
2533.7	47.5°	2596.1	2759.0	2980.8	3324.0	3615.1	3764.2	4162.8	4374.2	4363.8
1944.5	50°	2038.1	2187.1	2367.3	2637.7	2953.1	3071.0	3365.6	3573.6	3563.2
1466.2	52.5°	1559.7	1750.4	1909.8	2117.8	2426.3	2526.8	2738.2	2977.4	2942.7
1074.5	55°	1181.9	1376.0	1525.1	1698.4	1979.1	2107.4	2253.0	2443.6	2450.5
831.9	57.5°	890.8	1091.8	1227.0	1403.8	1615.2	1757.3	1868.2	2072.7	2069.3
568.4	60°	637.8	811.1	974.0	1157.7	1320.6	1483.5	1559.7	1753.8	1760.8
402.1	62.5°	461.0	623.9	779.9	939.3	1084.9	1244.3	1313.7	1466.2	1487.0
263.4	65°	322.3	436.7	617.0	738.3	901.2	1019.0	1109.2	1240.9	1265.1
156.0	67.5°	208.0	315.4	488.7	596.2	745.2	845.7	939.3	1043.3	1074.5
100.5	70°	124.8	239.2	363.9	478.3	613.5	703.6	793.7	883.9	901.2
48.5	72.5°	79.7	166.4	263.4	388.2	492.2	589.2	669.0	734.8	682.8
31.2	75°	45.1	114.4	208.0	305.0	398.6	492.2	558.0	592.7	474.9
20.8	77.5°	27.7	83.2	169.8	246.1	308.5	395.1	436.7	457.5	339.7
13.9	80°	17.3	62.4	142.1	201.0	201.0	291.2	339.7	357.0	246.1
10.4	82.5°	13.9	45.1	110.9	152.5	135.2	218.4	266.9	270.4	173.3
6.9	85°	10.4	34.7	69.3	100.5	93.6	152.5	156.0	173.3	114.4
6.9	87.5°	6.9	20.8	41.6	58.9	52.0	72.8	83.2	93.6	62.4
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
32238.2
31292.0
30768.6
30002.6
28567.6
27025.2
25236.7
23448.2
21479.4
19580.0
17666.7
15947.5
14235.3
12564.6
11015.3
9528.3
8048.3
6571.7
5278.9
4325.7
3563.2
2946.2
2450.5
2062.3
1743.5
1480.0
1258.2
1071.0
887.3
634.3
450.6
318.9
228.8
159.4
104.0
55.5
0.0

(END OF REPORT)