

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: P636532

Luminaire Tested: **IFLD-L-SA8C-940-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636532
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8C-940-U-55-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor
Light Source: (128) 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30294 lumens
Efficiency: N/A
Efficacy: 72.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G1

Input Watts (W): 420.3
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



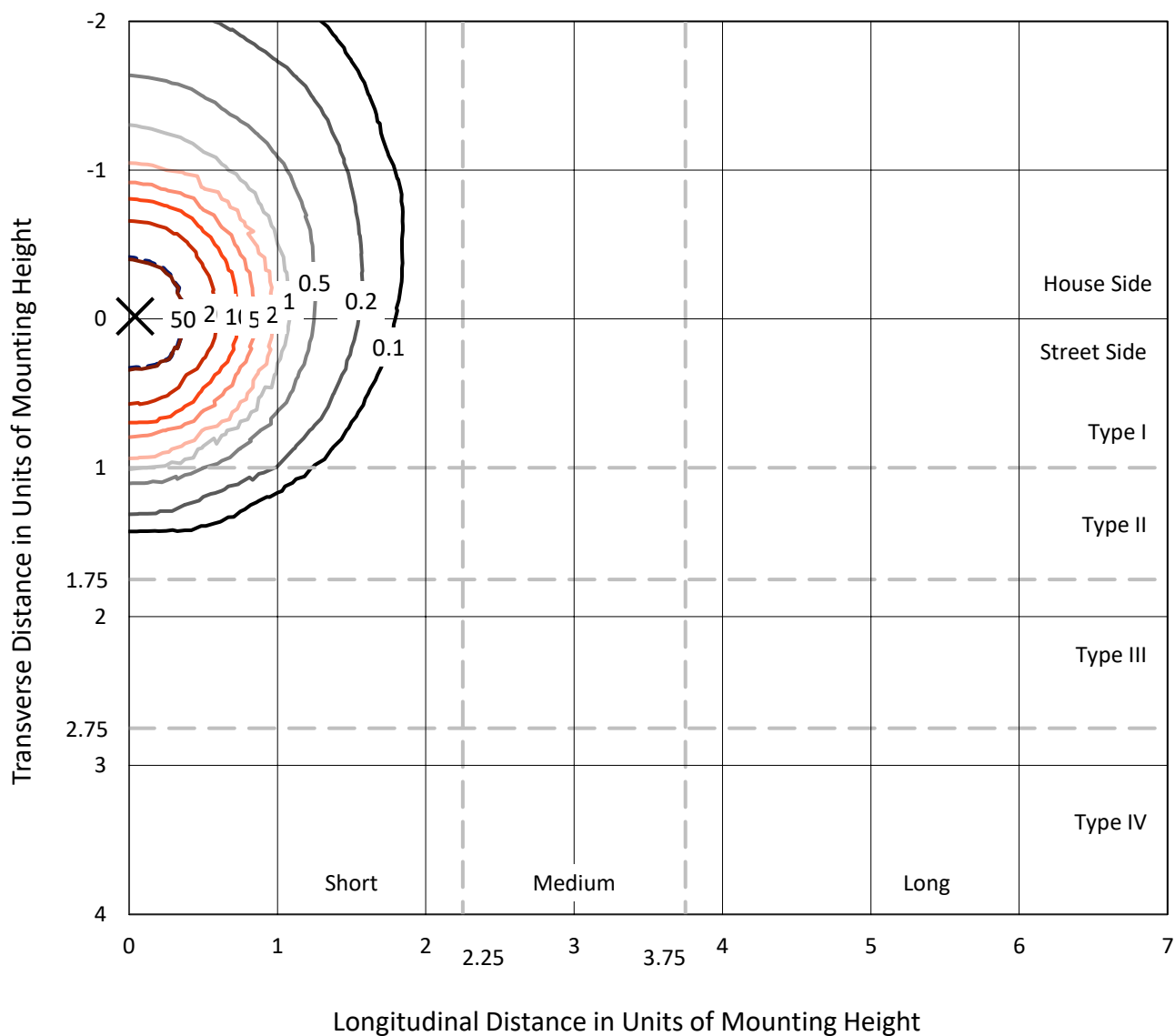
REPORT NUMBER: P636532

CATALOG NUMBER: IFLD-L-SA8C-940-U-55-VI

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

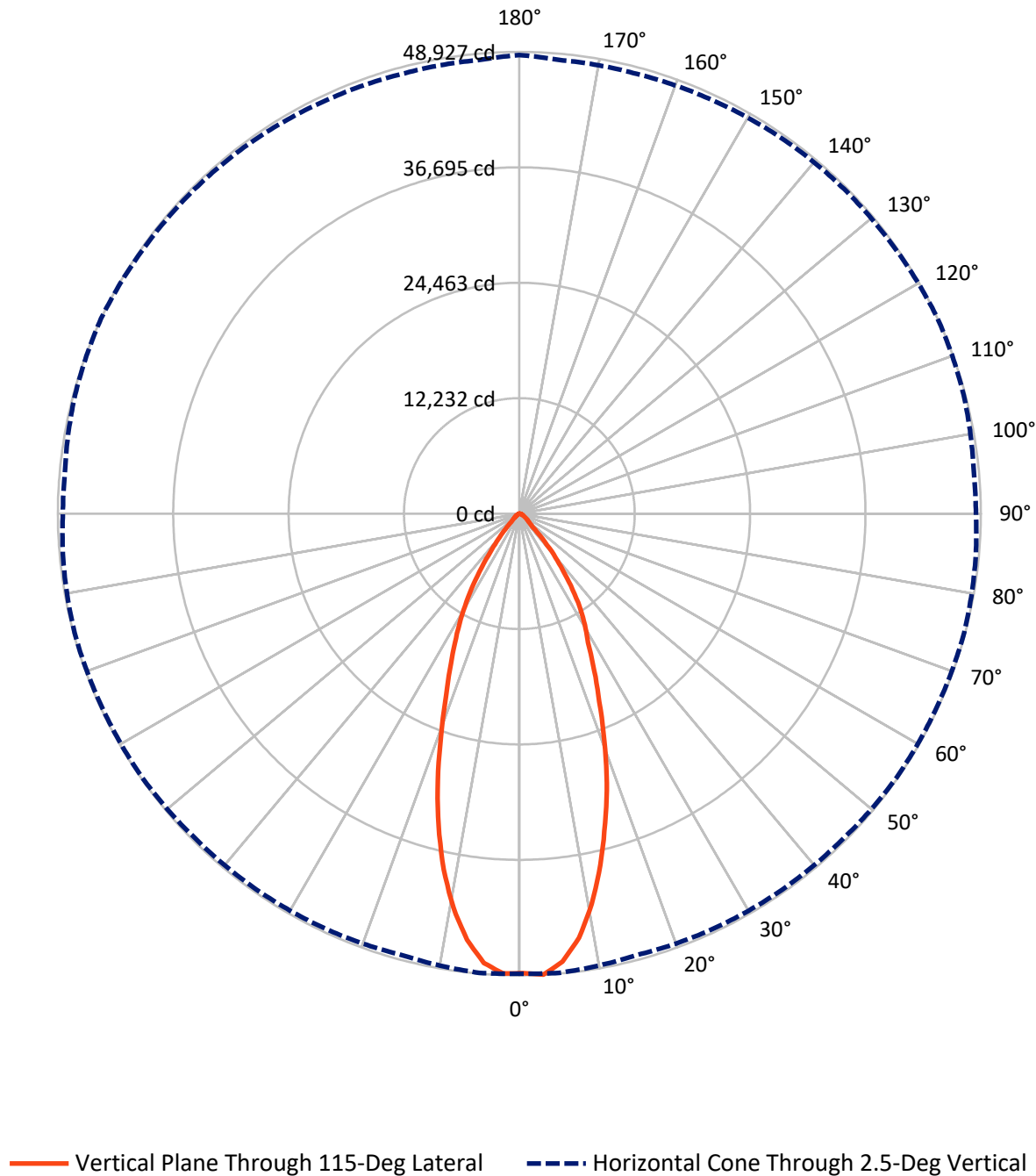


Based on 20 foot mounting height. Maximum calculated value = 121.7 fc

Type I - Short - N/A

REPORT NUMBER: P636532
CATALOG NUMBER: IFLD-L-SA8C-940-U-55-VI

Luminous Intensity Polar Plot



REPORT NUMBER: P636532

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16718.8	0.0	16718.8
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	13575.3	0.0	13575.3
	% Fixture	44.8	0.0	44.8
Total	Lumens	30294.0	0.0	30294.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4367.8	14.4
10°-20°	9231.2	30.5
20°-30°	8331.8	27.5
30°-40°	5513.6	18.2
40°-50°	1651.6	5.5
50°-60°	662.5	2.2
60°-70°	343.1	1.1
70°-80°	149.0	0.5
80°-90°	43.3	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°	30294.0	100.0
0°-180°	30294.0	100.0

Coefficient of Utilization



REPORT NUMBER: P636532

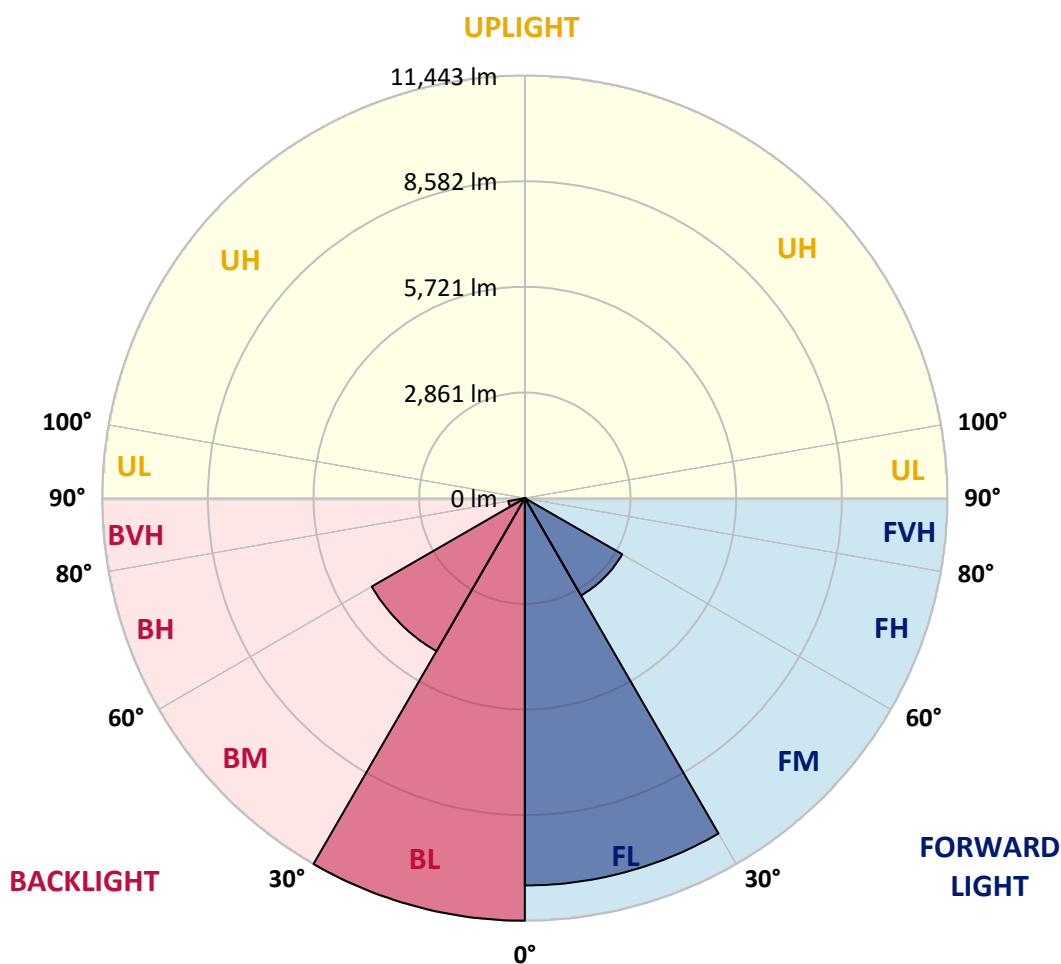
CATALOG NUMBER: IFLD-L-SA8C-940-U-55-VI

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	10488.0	34.6			
FM	(30°-60°)	3043.3	10.0			
FH	(60°-80°)	37.7	0.1			G0/660
FVH	(80°-90°)	6.2	0.0			G0/10
BL	(0°-30°)	11442.8	37.8	B5		
BM	(30°-60°)	4784.5	15.8	B3/5000		
BH	(60°-80°)	454.3	1.5	B1/500		G1/500
BVH	(80°-90°)	37.1	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 I Short



REPORT NUMBER: P636532

CATALOG NUMBER: IFLD-L-SA8C-940-U-55-VI

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	48697.6	48697.6	48697.6	48697.6	48697.6	48697.6	48697.6	48697.6	48697.6	48697.6
2.5°	48759.6	48846.3	48412.6	48561.3	48623.3	48641.9	48796.8	48772.0	48815.4	48586.1
5°	48115.3	47948.0	47625.8	47632.0	47613.4	47439.9	47793.1	47768.3	47694.0	47421.3
7.5°	45922.0	46163.6	45556.5	45544.1	45531.7	45321.0	45785.7	45500.7	45562.7	45172.3
10°	42712.7	42743.6	42204.6	42155.1	42198.4	41925.8	42464.8	42353.3	42471.0	42062.1
12.5°	38778.4	38951.9	38357.1	38270.4	38443.9	38059.7	38493.4	38549.2	38375.7	38320.0
15°	30414.3	30872.8	32000.4	33722.8	34168.9	33846.7	34193.7	34187.5	34261.8	33840.5
17.5°	23171.7	23215.0	22948.6	23772.6	28543.3	30092.2	30166.5	29577.9	29131.8	28977.0
20°	20228.7	20377.4	20135.8	20203.9	20966.0	25507.4	25680.9	24794.9	24032.8	23970.9
22.5°	17886.8	17979.7	17806.2	17862.0	17899.2	18432.0	21449.3	20668.6	20303.1	20024.3
25°	15904.2	15904.2	15811.2	15829.8	15792.7	15005.8	16554.7	17446.9	17236.2	17137.1
27.5°	14095.1	14119.8	14002.1	14070.3	13618.0	12347.9	12162.0	14795.2	14572.1	14392.4
30°	12378.9	12459.4	12347.9	12385.1	11400.0	10359.1	9826.3	12341.7	12620.5	12570.9
32.5°	9318.2	9683.8	10582.1	10619.3	9281.1	8481.8	8246.4	9906.8	10966.3	10873.3
35°	5774.3	5755.7	5792.9	7577.3	7118.8	6573.6	6660.3	7484.3	8680.1	8636.7
37.5°	4405.1	4398.9	4467.0	4287.4	4665.3	4987.5	5055.6	5055.6	6338.1	6344.3
40°	3339.4	3314.7	3308.5	3023.5	2534.0	3742.2	3630.6	3537.7	4405.1	4498.0
42.5°	2131.3	2205.6	2149.9	1840.1	1654.2	2044.6	2280.0	2205.6	2719.9	2788.0
45°	1189.6	1189.6	1140.0	966.5	960.3	1034.7	1301.1	1214.3	1394.0	1487.0
47.5°	576.2	563.8	619.6	762.1	793.0	768.3	929.3	966.5	1053.3	1140.0
50°	464.7	464.7	439.9	396.5	656.7	632.0	687.7	737.3	786.8	861.2
52.5°	390.3	390.3	359.3	334.6	377.9	483.3	489.5	582.4	576.2	681.5
55°	198.3	204.5	291.2	291.2	254.0	396.5	402.7	470.9	483.3	570.0
57.5°	18.6	24.8	37.2	179.7	198.3	216.8	303.6	347.0	402.7	439.9
60°	6.2	6.2	12.4	24.8	117.7	148.7	192.1	229.2	278.8	365.5
62.5°	0.0	0.0	6.2	12.4	24.8	92.9	105.3	117.7	167.3	229.2
65°	0.0	0.0	6.2	6.2	12.4	31.0	43.4	74.3	105.3	142.5
67.5°	0.0	0.0	6.2	6.2	12.4	18.6	24.8	37.2	49.6	92.9
70°	0.0	0.0	6.2	6.2	12.4	18.6	18.6	24.8	31.0	43.4
72.5°	0.0	0.0	6.2	6.2	12.4	24.8	18.6	18.6	24.8	31.0
75°	0.0	0.0	6.2	6.2	12.4	18.6	18.6	18.6	18.6	18.6
77.5°	0.0	0.0	6.2	6.2	12.4	18.6	18.6	18.6	12.4	12.4
80°	0.0	0.0	6.2	6.2	12.4	18.6	24.8	24.8	12.4	12.4
82.5°	0.0	0.0	6.2	12.4	12.4	31.0	37.2	31.0	12.4	6.2
85°	0.0	0.0	6.2	6.2	18.6	31.0	31.0	18.6	12.4	6.2
87.5°	0.0	0.0	0.0	6.2	6.2	12.4	18.6	18.6	6.2	6.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P636532

CATALOG NUMBER: IFLD-L-SA8C-940-U-55-VI

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
48697.6	0°	48697.6	48697.6	48697.6	48697.6	48697.6	48697.6	48697.6	48697.6	48697.6
48400.3	2.5°	48375.5	48753.4	48926.9	48747.2	48660.5	48536.6	48356.9	48233.0	48257.8
47272.6	5°	47167.3	47563.8	47700.1	47545.3	47415.1	47347.0	47316.0	47378.0	47539.1
45005.0	7.5°	44992.7	45246.7	45395.4	45321.0	45141.4	45345.8	45401.6	45364.4	45599.8
41938.2	10°	41950.6	42229.4	42093.1	42124.1	41913.4	42018.8	41987.8	42124.1	42359.5
38276.6	12.5°	38028.8	38295.2	38189.9	38171.3	37948.2	38146.5	38022.6	38171.3	38481.1
33667.0	15°	33908.7	34076.0	34007.8	33902.5	33704.2	33772.4	34156.5	34131.7	34268.0
28884.0	17.5°	28760.1	29565.5	30005.4	30098.4	29937.3	30073.6	30346.2	30278.0	30587.8
23840.8	20°	23797.4	24609.0	25693.3	26573.1	26591.6	26610.2	26783.7	26827.1	27093.5
20030.5	22.5°	19943.7	20519.9	21684.7	22849.5	23654.9	23822.2	23803.6	23865.6	23939.9
17000.8	25°	16957.4	17378.7	18444.4	19249.8	20662.4	21133.3	21269.6	21133.3	21176.7
14330.5	27.5°	14491.6	15135.9	15489.1	16350.3	17731.9	18822.3	18779.0	18698.4	18710.8
12471.8	30°	12465.6	13159.5	13679.9	13940.2	14981.0	16554.7	16715.8	16486.6	16492.8
10830.0	32.5°	10761.8	10978.7	11746.9	11957.6	12626.7	14057.9	14609.3	14435.8	14404.8
8661.5	35°	8915.5	9033.2	9386.4	9801.5	10198.0	11282.2	12193.0	12031.9	12112.5
6369.1	37.5°	6344.3	6827.6	7168.3	7509.1	7794.1	8475.6	9572.2	9423.6	9504.1
4510.4	40°	4473.2	4690.1	5278.7	5427.4	5848.7	6164.7	7094.0	7044.4	7143.6
2800.4	42.5°	2750.9	2905.8	3203.1	3345.6	3630.6	3810.3	4355.5	4417.5	4547.6
1548.9	45°	1561.3	1629.5	1833.9	1988.8	2199.4	2273.8	2465.9	2552.6	2626.9
1202.0	47.5°	1189.6	1263.9	1400.2	1536.5	1710.0	1771.9	1908.3	2038.4	2106.5
929.3	50°	972.7	1040.9	1183.4	1294.9	1468.4	1524.1	1635.6	1778.1	1864.9
706.3	52.5°	737.3	836.4	1009.9	1127.6	1307.3	1375.4	1480.8	1623.3	1703.8
582.4	55°	607.2	681.5	836.4	997.5	1164.8	1257.7	1325.9	1499.3	1586.1
477.1	57.5°	520.4	576.2	675.3	867.4	1009.9	1146.2	1202.0	1363.0	1449.8
377.9	60°	396.5	483.3	570.0	718.7	879.8	1022.3	1084.2	1226.7	1294.9
272.6	62.5°	328.4	384.1	495.7	576.2	755.9	904.6	966.5	1096.6	1146.2
179.7	65°	229.2	309.8	415.1	464.7	632.0	774.5	861.2	960.3	1009.9
105.3	67.5°	136.3	229.2	328.4	396.5	514.2	656.7	749.7	842.6	886.0
62.0	70°	86.7	179.7	260.2	334.6	402.7	539.0	650.5	731.1	712.5
37.2	72.5°	49.6	111.5	192.1	272.6	334.6	452.3	557.6	619.6	439.9
24.8	75°	31.0	80.5	161.1	223.0	272.6	359.3	458.5	470.9	272.6
12.4	77.5°	24.8	62.0	123.9	179.7	185.9	266.4	322.2	365.5	204.5
12.4	80°	12.4	49.6	105.3	148.7	117.7	185.9	247.8	285.0	161.1
6.2	82.5°	12.4	31.0	80.5	105.3	86.7	142.5	179.7	204.5	136.3
6.2	85°	6.2	24.8	43.4	62.0	62.0	92.9	80.5	99.1	86.7
6.2	87.5°	6.2	12.4	24.8	31.0	24.8	37.2	43.4	43.4	37.2
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
48697.6
48592.3
47873.6
45835.3
42452.5
38536.8
34299.0
30538.3
27037.7
23803.6
21108.5
18729.4
16499.0
14479.2
12186.8
9572.2
7180.7
4696.3
2620.8
2137.5
1902.1
1759.6
1610.9
1487.0
1307.3
1152.4
1009.9
879.8
656.7
390.3
254.0
204.5
167.3
148.7
86.7
31.0
0.0

(END OF REPORT)