

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: EPHESUS

Report Number: P638681

Luminaire Tested: **EPH-VN-07-E-735-U-55-VI**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-08
Report Number: P638681
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-VN-07-E-735-U-55-VI
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/
Nema 5 distribution lens and Visor
Light Source: (112) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 52300.7 lumens
Efficiency: N/A
Efficacy: 98.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G2

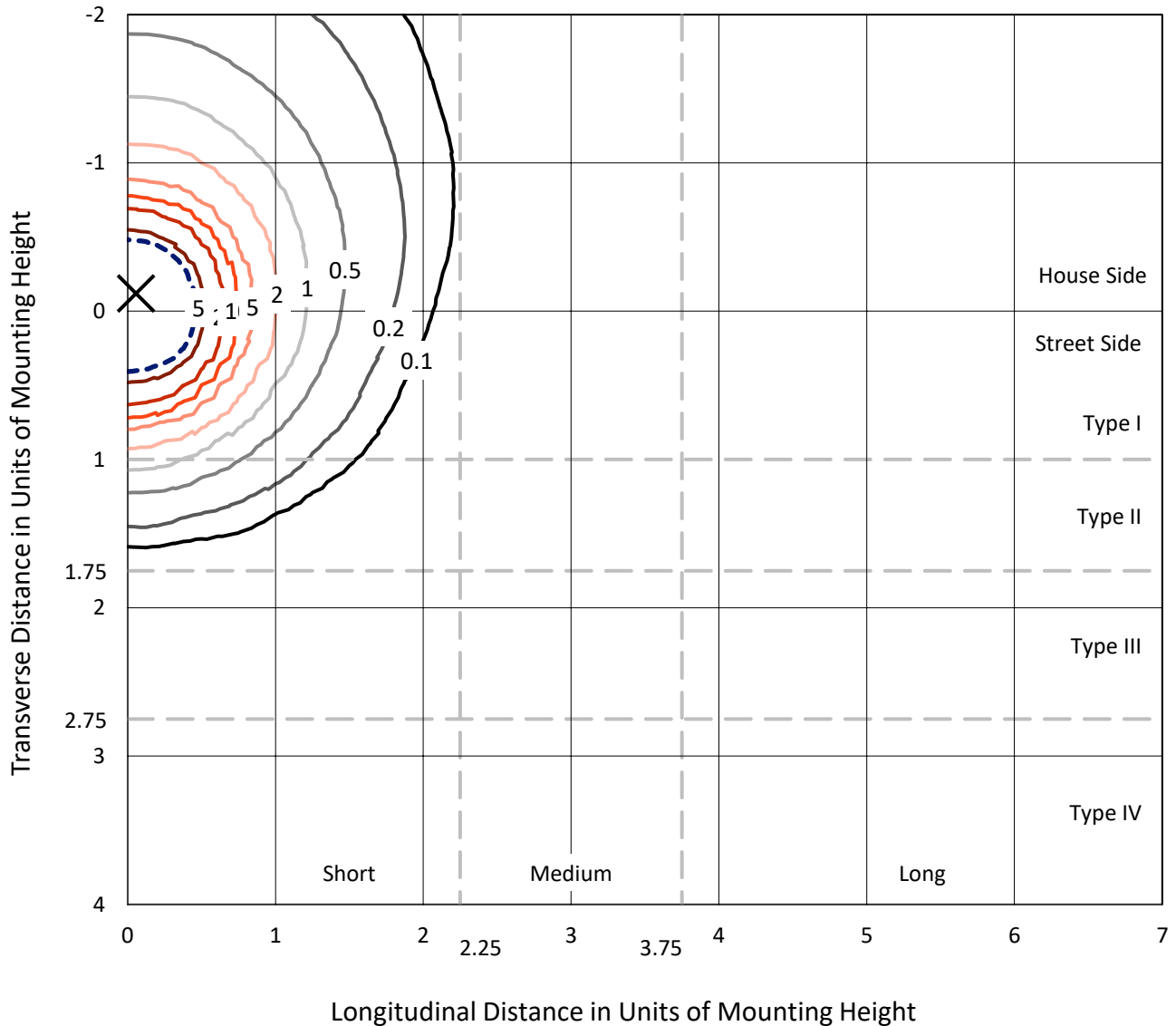
Input Watts (W): 532.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P638681
 CATALOG NUMBER: EPH-VN-07-E-735-U-55-VI

Iso-Footcandle Lines of Horizontal Illumination

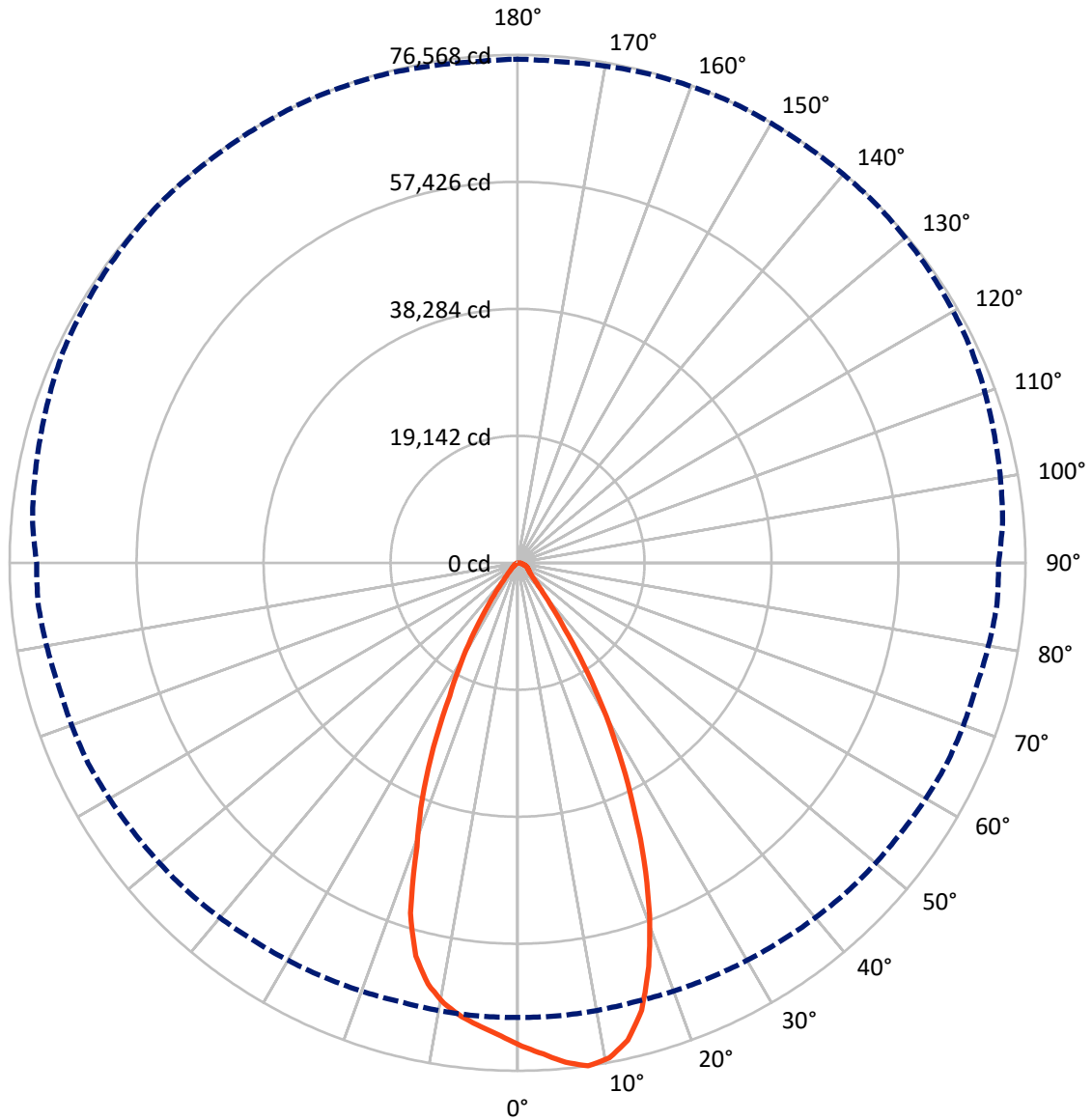
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 185.2 fc
 Type I - Short - N/A

REPORT NUMBER: P638681
CATALOG NUMBER: EPH-VN-07-E-735-U-55-VI

Luminous Intensity Polar Plot



— Vertical Plane Through 155-Deg Lateral - - - Horizontal Cone Through 7.5-Deg Vertical

REPORT NUMBER: P638681
 CATALOG NUMBER: EPH-VN-07-E-735-U-55-VI

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	28871.9	0.0	28871.9
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	23428.8	0.0	23428.8
	% Fixture	44.8	0.0	44.8
Total	Lumens	52300.7	0.0	52300.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6947.6	13.3
10°-20°	18015.1	34.4
20°-30°	16506.8	31.6
30°-40°	6668.8	12.8
40°-50°	1956.3	3.7
50°-60°	1093.8	2.1
60°-70°	664.4	1.3
70°-80°	337.6	0.6
80°-90°	110.4	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°	52300.7	100.0
0°-180°	52300.7	100.0

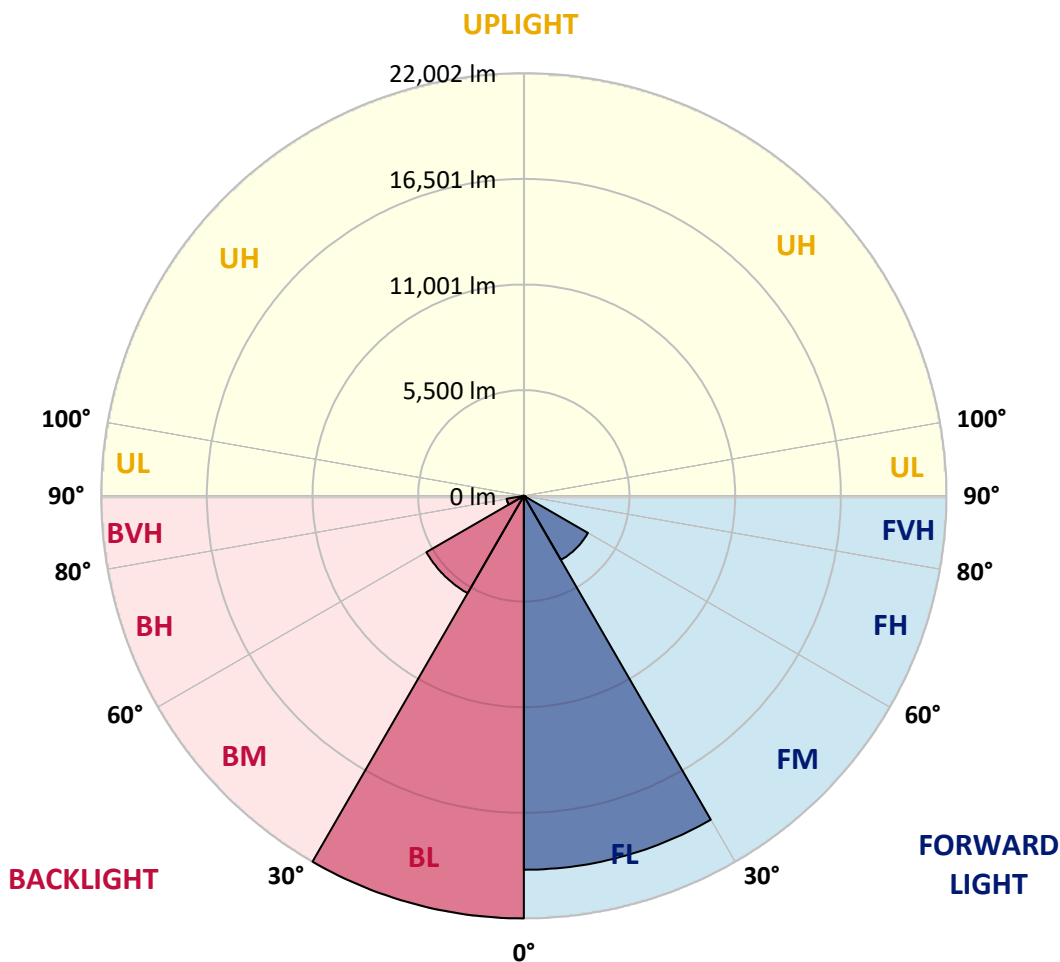


REPORT NUMBER: P638681
 CATALOG NUMBER: EPH-VN-07-E-735-U-55-VI

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	19467.6	37.2			
FM (30°-60°)	3858.1	7.4			
FH (60°-80°)	93.5	0.2			G0/660
FVH (80°-90°)	9.6	0.0			G0/10
BL (0°-30°)	22001.9	42.1	B5		
BM (30°-60°)	5860.8	11.2	B4/8500		
BH (60°-80°)	908.5	1.7	B2/1000		G2/1000
BVH (80°-90°)	100.8	0.2			G2/225
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: P638681
 CATALOG NUMBER: EPH-VN-07-E-735-U-55-VI

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	72858.9	72858.9	72858.9	72858.9	72858.9	72858.9	72858.9	72858.9	72858.9	72858.9
2.5°	71278.8	71520.1	71037.6	71357.3	71604.5	72195.5	72243.8	72448.8	72521.2	73058.0
5°	69927.9	70114.9	69722.9	70151.1	70500.9	71025.6	71429.6	71996.5	72310.1	72943.4
7.5°	68522.7	68565.0	68486.6	68938.9	69463.6	70187.3	70687.8	71429.6	71622.6	72527.2
10°	66822.0	66514.5	66665.2	67328.6	68112.6	69222.3	69566.1	70307.9	70651.6	71574.4
12.5°	64108.1	64264.9	64078.0	64922.3	65573.6	66834.1	67196.0	67943.8	68601.1	69415.3
15°	60284.6	60194.1	60574.1	61231.4	61937.0	62938.2	63523.2	64337.3	64837.9	65682.2
17.5°	51690.6	51998.2	53566.2	55212.6	56660.0	57830.0	58529.6	59205.0	59566.9	60483.6
20°	44640.5	44254.5	44465.6	45394.4	49513.4	51304.6	52040.4	52203.2	52354.0	53077.7
22.5°	36758.2	36631.5	37337.1	38380.5	39357.5	43488.6	44489.7	44109.8	44423.4	45104.9
25°	27295.7	27935.0	28562.2	30564.4	31830.9	33857.3	35757.0	35925.9	36040.5	36468.7
27.5°	22217.7	21994.6	21982.5	22543.4	24413.0	26101.6	27717.9	28091.8	28025.5	28435.6
30°	17465.4	17393.0	17139.7	17272.4	17085.5	18587.1	19347.0	20884.9	20800.5	20812.5
32.5°	12598.5	12327.1	12224.6	12423.6	12230.6	12091.9	12755.3	14492.2	14462.0	14582.6
35°	7623.0	7586.8	7671.3	7846.2	7460.2	7448.1	7586.8	9221.2	9420.2	9613.2
37.5°	4209.5	4173.4	4239.7	4885.0	4758.4	4643.8	4680.0	5542.4	6115.3	6260.0
40°	2774.2	2768.2	2816.4	2931.0	3148.1	3105.9	3124.0	3510.0	4052.7	4179.4
42.5°	1857.5	1863.5	1893.7	2026.4	2056.5	2273.6	2237.5	2327.9	2834.5	2943.1
45°	1483.6	1477.6	1495.7	1435.3	1471.5	1694.7	1718.8	1724.8	2159.1	2225.4
47.5°	1170.0	1170.0	1188.1	1109.7	1091.6	1230.3	1356.9	1375.0	1724.8	1815.3
50°	820.2	820.2	910.7	874.5	916.7	958.9	1097.6	1115.7	1411.2	1507.7
52.5°	603.1	615.1	627.2	633.2	772.0	765.9	886.5	971.0	1067.5	1236.3
55°	458.3	470.4	440.3	470.4	572.9	639.3	663.4	784.0	850.4	1037.3
57.5°	301.5	331.7	307.6	361.9	386.0	494.5	530.7	645.3	687.5	850.4
60°	42.2	48.2	78.4	253.3	271.4	325.7	410.1	512.6	554.8	693.6
62.5°	6.0	6.0	18.1	42.2	180.9	217.1	307.6	355.8	410.1	518.7
65°	0.0	0.0	6.0	12.1	36.2	126.6	156.8	193.0	283.5	373.9
67.5°	0.0	0.0	6.0	12.1	18.1	42.2	66.3	126.6	162.8	259.3
70°	0.0	0.0	6.0	12.1	18.1	24.1	36.2	48.2	96.5	150.8
72.5°	0.0	0.0	6.0	12.1	18.1	24.1	30.2	36.2	42.2	96.5
75°	0.0	0.0	6.0	12.1	18.1	30.2	36.2	36.2	36.2	42.2
77.5°	0.0	0.0	6.0	12.1	24.1	36.2	42.2	36.2	30.2	30.2
80°	0.0	0.0	6.0	18.1	30.2	42.2	48.2	36.2	24.1	18.1
82.5°	0.0	0.0	6.0	18.1	30.2	42.2	48.2	42.2	24.1	18.1
85°	0.0	0.0	6.0	18.1	24.1	30.2	48.2	42.2	24.1	12.1
87.5°	0.0	0.0	0.0	6.0	6.0	12.1	24.1	18.1	12.1	6.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P638681

CATALOG NUMBER: EPH-VN-07-E-735-U-55-VI

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
72858.9	0°	72858.9	72858.9	72858.9	72858.9	72858.9	72858.9	72858.9	72858.9	72858.9
73045.9	2.5°	73588.7	73860.1	74336.5	74469.2	74879.3	74408.9	74149.5	74173.7	73612.8
72865.0	5°	73588.7	74209.9	75042.1	75440.1	75741.7	75717.6	75651.2	75482.4	75072.3
72503.1	7.5°	73395.7	74408.9	75554.7	76085.5	76447.3	76417.2	76567.9	76296.5	75796.0
71857.8	10°	72774.5	73655.0	75066.2	75500.5	76085.5	76097.5	75910.6	75964.8	75072.3
69499.7	12.5°	70820.5	71508.0	72744.4	73238.9	73950.5	74065.1	73860.1	73781.7	72937.3
65634.0	15°	67039.1	67437.2	68679.5	69174.1	69879.7	69783.2	69988.2	69903.8	69162.0
60411.2	17.5°	61508.8	61635.5	62938.2	63354.3	64017.7	64277.0	63969.4	64361.4	63722.2
53204.3	20°	53578.2	54259.7	55725.2	56364.5	56750.5	57214.9	56810.8	57251.0	56503.2
44459.6	22.5°	45533.1	45937.1	47263.9	48186.6	48904.3	48994.8	48844.0	49151.6	48144.4
36752.1	25°	36746.1	37415.5	38464.9	39671.1	40376.7	40810.9	40418.9	40617.9	40455.1
28501.9	27.5°	28984.4	29581.4	30371.5	31270.1	32331.5	32898.4	32584.8	32922.5	32126.4
21252.8	30°	21270.9	21572.4	22465.0	23417.9	24581.8	25269.3	25299.5	25643.3	25172.9
14890.2	32.5°	14998.8	15264.1	15812.9	16446.2	17555.9	18321.8	18201.2	18249.4	17959.9
9703.7	35°	9751.9	10107.7	10499.7	10801.3	11470.7	12315.0	12248.7	12188.4	11989.4
6380.7	37.5°	6519.4	6658.1	6875.2	7146.6	7580.8	8111.5	8286.4	8069.3	7984.9
4306.0	40°	4408.6	4649.8	4794.5	4999.6	5204.6	5650.9	5771.5	5729.3	5644.9
3015.4	42.5°	3130.0	3317.0	3497.9	3696.9	3805.5	4082.9	4318.1	4251.8	4215.6
2291.7	45°	2376.2	2545.0	2756.1	2906.9	3015.4	3178.3	3401.4	3425.5	3371.3
1839.4	47.5°	1905.8	2056.5	2225.4	2412.3	2539.0	2641.5	2834.5	2906.9	2870.7
1549.9	50°	1616.3	1730.9	1893.7	2080.7	2219.4	2309.8	2478.7	2557.1	2533.0
1296.6	52.5°	1375.0	1513.7	1664.5	1821.3	1990.2	2080.7	2237.5	2352.0	2333.9
1073.5	55°	1139.8	1320.8	1477.6	1634.4	1827.4	1917.8	2056.5	2207.3	2177.1
910.7	57.5°	995.1	1145.9	1308.7	1459.5	1664.5	1785.1	1911.8	2068.6	2062.6
747.8	60°	832.3	983.0	1164.0	1290.6	1507.7	1676.6	1791.2	1954.0	1966.1
566.9	62.5°	663.4	850.4	989.1	1164.0	1363.0	1562.0	1670.6	1833.4	1893.7
434.2	65°	494.5	699.6	856.4	1031.3	1218.2	1441.4	1537.9	1700.7	1761.0
313.6	67.5°	367.9	524.7	723.7	874.5	1085.6	1278.5	1393.1	1543.9	1586.1
187.0	70°	277.4	404.1	603.1	735.8	952.9	1109.7	1224.3	1338.9	1393.1
126.6	72.5°	162.8	301.5	476.4	633.2	820.2	952.9	1037.3	1127.8	1164.0
60.3	75°	114.6	229.2	373.9	524.7	663.4	772.0	850.4	928.8	964.9
30.2	77.5°	60.3	168.9	295.5	422.2	518.7	609.1	687.5	747.8	772.0
24.1	80°	36.2	120.6	241.2	331.7	398.0	476.4	554.8	597.1	591.0
18.1	82.5°	24.1	96.5	174.9	241.2	289.5	349.8	404.1	434.2	434.2
12.1	85°	18.1	66.3	120.6	187.0	193.0	241.2	253.3	283.5	289.5
12.1	87.5°	12.1	42.2	66.3	108.6	102.5	126.6	132.7	150.8	162.8
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
72858.9
73160.5
75204.9
75910.6
74812.9
72744.4
69397.2
63565.4
56442.9
48005.7
40352.5
32331.5
25257.3
18122.8
11814.5
7966.8
5657.0
4185.4
3365.2
2852.6
2526.9
2321.9
2177.1
2056.5
1966.1
1887.7
1755.0
1586.1
1381.1
1151.9
952.9
765.9
585.0
428.2
283.5
156.8
0.0

(END OF REPORT)