

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: P637889

Luminaire Tested: **IFLD-L-SA7B-735-U-66-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637889
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7B-735-U-66-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor
Light Source: (112) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29617.1 lumens
Efficiency: N/A
Efficacy: 105.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G2

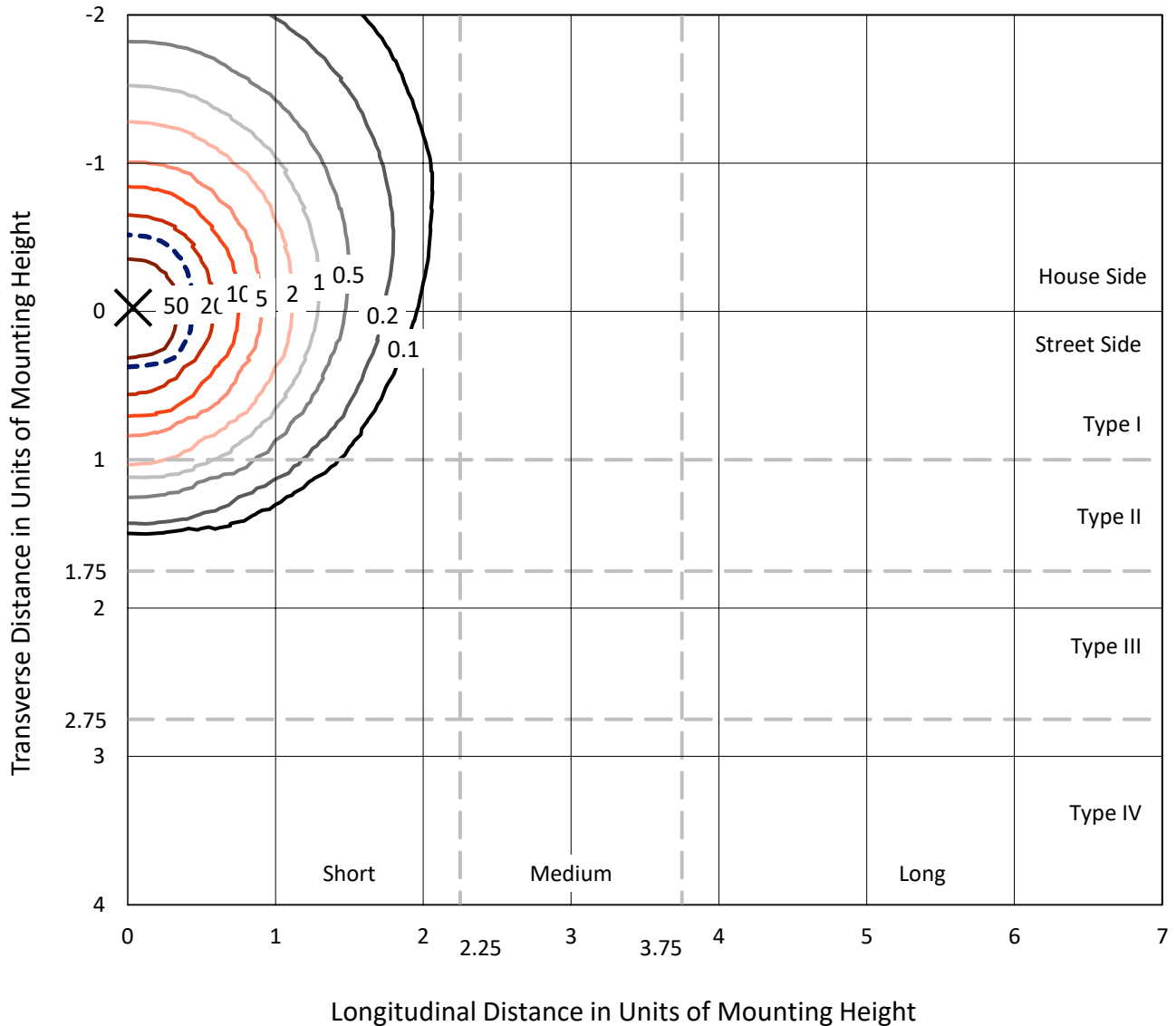
Input Watts (W): 281
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P637889
 CATALOG NUMBER: IFLD-L-SA7B-735-U-66-VI

Iso-Footcandle Lines of Horizontal Illumination

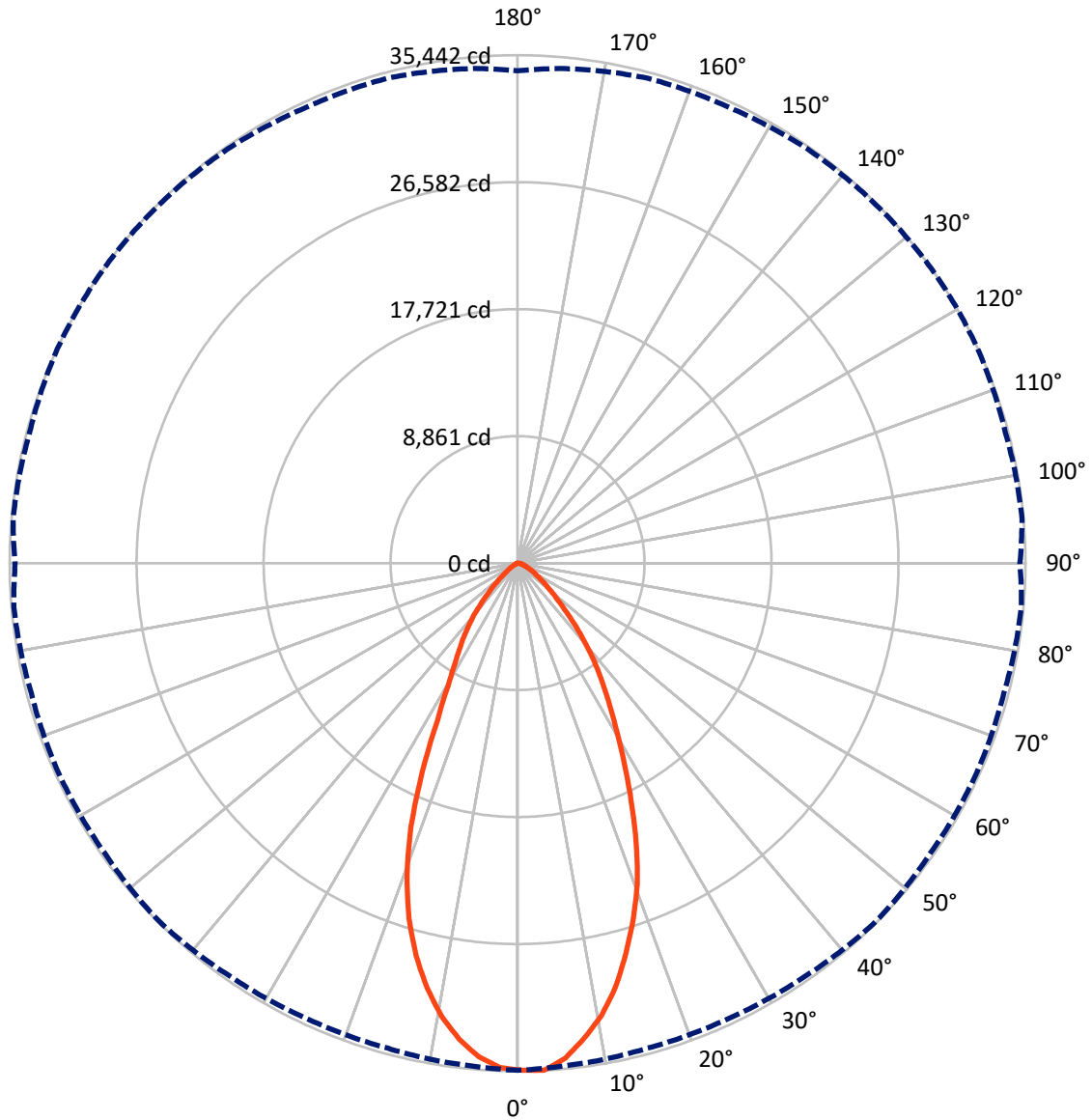
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 88.5 fc
 Type I - Short - N/A

REPORT NUMBER: P637889
CATALOG NUMBER: IFLD-L-SA7B-735-U-66-VI

Luminous Intensity Polar Plot



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

REPORT NUMBER: P637889

CATALOG NUMBER: IFLD-L-SA7B-735-U-66-VI

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16805.9	0.0	16805.9
	% Fixture	56.7	0.0	56.7
Street Side	Lumens	12811.2	0.0	12811.2
	% Fixture	43.3	0.0	43.3
Total	Lumens	29617.1	0.0	29617.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3213.1	10.8
10°-20°	7659.4	25.9
20°-30°	7800.9	26.3
30°-40°	5817.1	19.6
40°-50°	3039.0	10.3
50°-60°	1278.2	4.3
60°-70°	522.0	1.8
70°-80°	219.7	0.7
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°	29617.1	100.0
0°-180°	29617.1	100.0



REPORT NUMBER: P637889

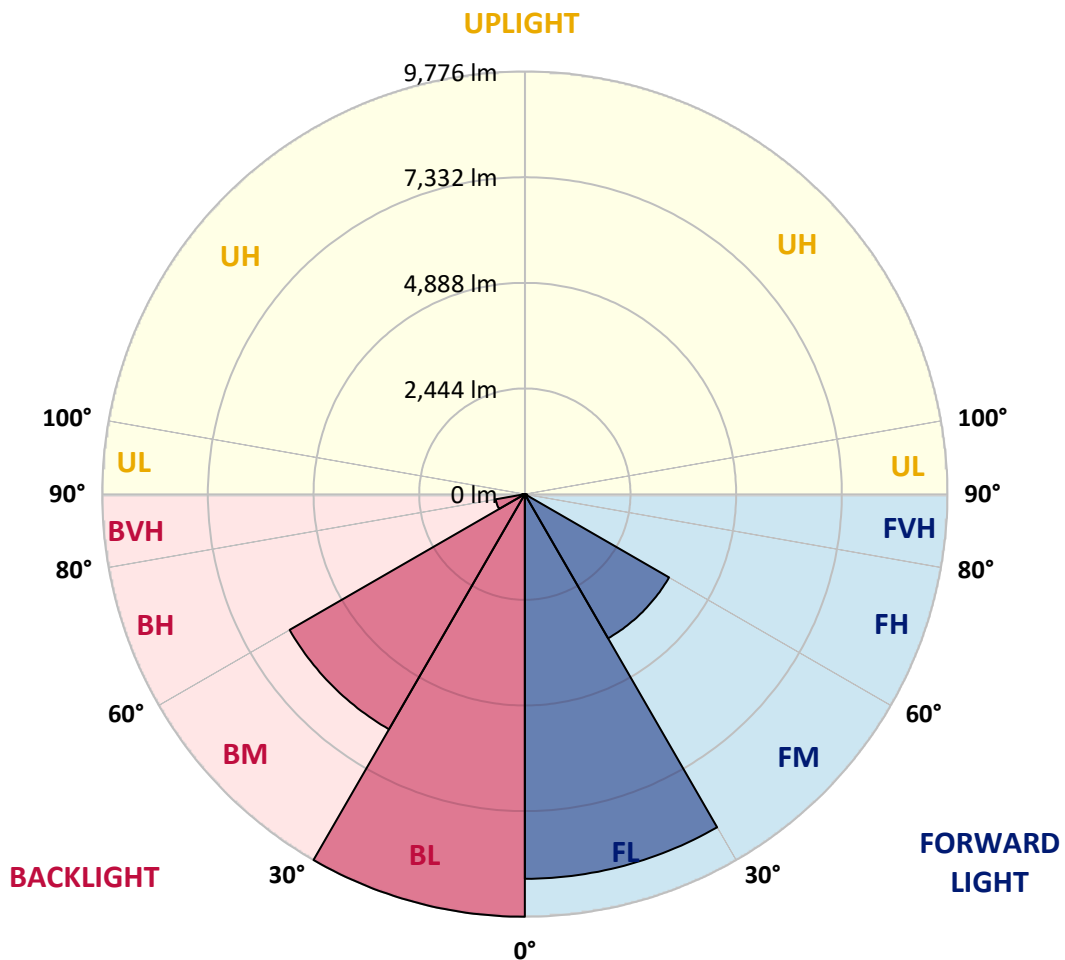
CATALOG NUMBER: IFLD-L-SA7B-735-U-66-VI

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	8897.4	30.0			
FM (30°-60°)	3851.8	13.0			
FH (60°-80°)	55.7	0.2			G0/660
FVH (80°-90°)	6.3	0.0			G0/10
BL (0°-30°)	9776.0	33.0	B5		
BM (30°-60°)	6282.5	21.2	B4/8500		
BH (60°-80°)	686.0	2.3	B2/1000		G2/1000
BVH (80°-90°)	61.4	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: P637889
 CATALOG NUMBER: IFLD-L-SA7B-735-U-66-VI

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	35385.3	35385.3	35385.3	35385.3	35385.3	35385.3	35385.3	35385.3	35385.3	35385.3
2.5°	35389.1	35244.6	35039.1	35020.1	35126.6	35358.7	35210.3	35217.9	35126.6	35282.6
5°	34833.7	34696.7	34556.0	34369.5	34525.5	34624.4	34548.3	34464.6	34346.7	34498.9
7.5°	33783.6	33707.6	33498.3	33414.6	33509.7	33620.1	33456.5	33433.6	33270.0	33467.9
10°	32178.2	32147.7	31942.3	31892.8	31976.5	32143.9	32071.6	32056.4	31953.7	31934.7
12.5°	30511.8	30393.9	30139.0	30123.8	30249.3	30500.4	30306.4	30119.9	30177.0	30226.5
15°	26220.4	26094.8	26726.4	27719.3	28240.5	28221.5	28278.6	28054.1	27985.6	28008.5
17.5°	20844.7	20631.6	20859.9	22396.9	24873.6	26311.7	25916.0	25432.8	25174.1	25002.9
20°	17991.3	18002.7	17960.9	18356.5	19901.2	23180.6	23085.5	22153.4	21814.8	21674.0
22.5°	16256.5	16191.8	16100.5	16226.0	16640.7	18565.8	19855.5	18999.5	18881.6	18725.6
25°	14555.9	14555.9	14445.6	14571.1	14689.0	14715.7	16009.2	16359.2	16130.9	16130.9
27.5°	13083.6	13007.5	12958.0	13015.1	12859.1	12109.6	12273.2	14065.1	13909.1	13814.0
30°	11622.6	11599.8	11516.1	11592.2	11013.9	10169.3	9826.9	11869.9	12033.5	11999.3
32.5°	9594.9	9686.2	10059.0	10176.9	9187.8	8506.8	8179.6	9853.6	10507.9	10481.3
35°	6520.9	6596.9	7023.0	8430.7	7616.5	7129.6	7034.5	7837.2	8913.9	9016.6
37.5°	5193.1	5181.7	5303.4	5554.5	6121.4	6003.4	5976.8	6186.1	7270.3	7316.0
40°	4280.0	4264.8	4261.0	4055.6	3914.8	4991.5	4919.2	4793.6	5733.3	5824.6
42.5°	3450.6	3465.9	3477.3	3028.4	2822.9	3850.1	3808.3	3678.9	4496.9	4603.4
45°	2708.8	2705.0	2727.8	2256.0	2199.0	2461.5	2845.7	2743.0	3393.6	3507.7
47.5°	1403.8	1453.3	1761.5	1746.2	1772.9	1746.2	2153.3	2126.7	2552.8	2735.4
50°	943.5	958.7	985.4	989.2	1396.2	1285.9	1460.9	1654.9	1788.1	2069.6
52.5°	730.5	741.9	673.4	631.5	856.0	951.1	958.7	1145.1	1247.9	1533.2
55°	407.1	456.5	490.8	494.6	471.8	703.8	700.0	848.4	928.3	1118.5
57.5°	53.3	64.7	98.9	319.6	315.8	391.9	490.8	616.3	662.0	818.0
60°	3.8	7.6	11.4	49.5	209.2	228.3	334.8	384.3	460.3	574.5
62.5°	0.0	0.0	3.8	11.4	41.8	133.2	175.0	201.6	270.1	376.6
65°	0.0	0.0	3.8	7.6	15.2	49.5	68.5	110.3	159.8	232.1
67.5°	0.0	0.0	3.8	7.6	11.4	19.0	30.4	49.5	83.7	140.8
70°	0.0	0.0	3.8	7.6	11.4	15.2	22.8	30.4	45.7	76.1
72.5°	0.0	0.0	3.8	3.8	7.6	19.0	19.0	22.8	30.4	41.8
75°	0.0	0.0	3.8	7.6	11.4	19.0	19.0	19.0	22.8	26.6
77.5°	0.0	0.0	3.8	7.6	11.4	19.0	15.2	19.0	19.0	19.0
80°	0.0	0.0	3.8	7.6	11.4	19.0	22.8	19.0	15.2	15.2
82.5°	0.0	0.0	3.8	11.4	11.4	26.6	26.6	26.6	11.4	11.4
85°	0.0	0.0	7.6	11.4	19.0	30.4	30.4	22.8	11.4	7.6
87.5°	0.0	0.0	3.8	7.6	7.6	15.2	22.8	19.0	7.6	3.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P637889

CATALOG NUMBER: IFLD-L-SA7B-735-U-66-VI

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
35385.3	0°	35385.3	35385.3	35385.3	35385.3	35385.3	35385.3	35385.3	35385.3	35385.3
35054.3	2.5°	35335.9	35240.8	35419.6	35442.4	35366.3	35271.2	35050.5	35031.5	34647.3
34278.2	5°	34666.3	34510.3	34624.4	34700.5	34673.9	34571.2	34479.9	34396.2	34050.0
33018.9	7.5°	33418.4	33361.4	33414.6	33471.7	33582.0	33471.7	33433.6	33346.1	33003.7
31778.7	10°	32033.6	31927.1	32128.7	32102.1	32071.6	32041.2	31881.4	31896.6	31493.4
30089.5	12.5°	30333.0	30154.2	30348.2	30371.0	30348.2	30241.7	30062.9	30139.0	29769.9
27806.8	15°	28046.5	28027.5	28168.3	28259.6	28324.2	28210.1	28149.2	28187.3	27966.6
24869.8	17.5°	25238.8	25486.1	25946.4	26102.4	26106.2	26224.2	26189.9	26144.3	25980.7
21617.0	20°	21936.5	22412.1	23119.7	23846.4	24055.6	23956.7	23911.1	23994.8	23751.3
18562.0	22.5°	18889.2	19296.2	20118.0	21179.5	21792.0	21852.8	21841.4	21769.1	21674.0
16115.7	25°	16302.1	16663.6	17451.1	18421.2	19596.8	19771.8	19779.4	19756.6	19672.9
13897.7	27.5°	14118.4	14555.9	14989.6	15857.0	17108.7	17831.5	17740.2	17713.6	17683.2
12025.9	30°	12140.0	12691.7	13098.8	13639.0	14761.3	15739.1	15834.2	15788.5	15716.2
10477.5	32.5°	10572.6	10899.8	11417.2	11782.4	12589.0	13696.1	14061.3	14027.1	13962.4
9081.3	35°	9210.6	9340.0	9747.0	10154.1	10690.5	11763.4	12303.6	12227.5	12216.1
7399.7	37.5°	7586.1	8019.8	8244.3	8655.2	9031.8	9865.0	10610.7	10576.4	10580.2
5950.2	40°	6125.2	6376.3	6821.4	7167.6	7513.8	8122.5	8951.9	8974.7	8967.1
4607.2	42.5°	4702.3	4945.8	5413.8	5790.4	6098.6	6475.2	7266.5	7293.2	7327.4
3587.6	45°	3671.3	3827.3	4169.7	4561.6	4888.7	5117.0	5718.1	5889.3	5893.1
2781.1	47.5°	2849.5	3028.4	3271.8	3648.5	3968.1	4131.6	4569.2	4801.2	4789.8
2134.3	50°	2237.0	2400.6	2598.4	2895.2	3241.4	3370.8	3694.1	3922.4	3911.0
1609.3	52.5°	1712.0	1921.3	2096.3	2324.5	2663.1	2773.5	3005.5	3268.0	3230.0
1179.4	55°	1297.3	1510.4	1674.0	1864.2	2172.3	2313.1	2472.9	2682.1	2689.8
913.1	57.5°	977.7	1198.4	1346.8	1540.8	1772.9	1928.9	2050.6	2275.1	2271.3
623.9	60°	700.0	890.2	1069.1	1270.7	1449.5	1628.3	1712.0	1925.1	1932.7
441.3	62.5°	506.0	684.8	856.0	1031.0	1190.8	1365.8	1441.9	1609.3	1632.1
289.1	65°	353.8	479.4	677.2	810.4	989.2	1118.5	1217.4	1362.0	1388.6
171.2	67.5°	228.3	346.2	536.4	654.4	818.0	928.3	1031.0	1145.1	1179.4
110.3	70°	137.0	262.5	399.5	525.0	673.4	772.3	871.2	970.1	989.2
53.3	72.5°	87.5	182.6	289.1	426.1	540.2	646.8	734.3	806.5	749.5
34.2	75°	49.5	125.5	228.3	334.8	437.5	540.2	612.5	650.6	521.2
22.8	77.5°	30.4	91.3	186.4	270.1	338.6	433.7	479.4	502.2	372.8
15.2	80°	19.0	68.5	156.0	220.7	220.7	319.6	372.8	391.9	270.1
11.4	82.5°	15.2	49.5	121.7	167.4	148.4	239.7	292.9	296.7	190.2
7.6	85°	11.4	38.0	76.1	110.3	102.7	167.4	171.2	190.2	125.5
7.6	87.5°	7.6	22.8	45.7	64.7	57.1	79.9	91.3	102.7	68.5
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
35385.3
34346.7
33772.2
32931.4
31356.4
29663.4
27700.3
25737.2
23576.3
21491.4
19391.4
17504.3
15624.9
13791.2
12090.6
10458.5
8834.0
7213.3
5794.2
4748.0
3911.0
3233.8
2689.8
2263.7
1913.6
1624.5
1381.0
1175.6
973.9
696.2
494.6
350.0
251.1
175.0
114.1
60.9
0.0

(END OF REPORT)