

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: P637387

Luminaire Tested: **IFLD-S-SA6C-740-U-44-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637387
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6C-740-U-44-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 4 distribution lens and Visor
Light Source: (96) 4000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40076 lumens
Efficiency: N/A
Efficacy: 124.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

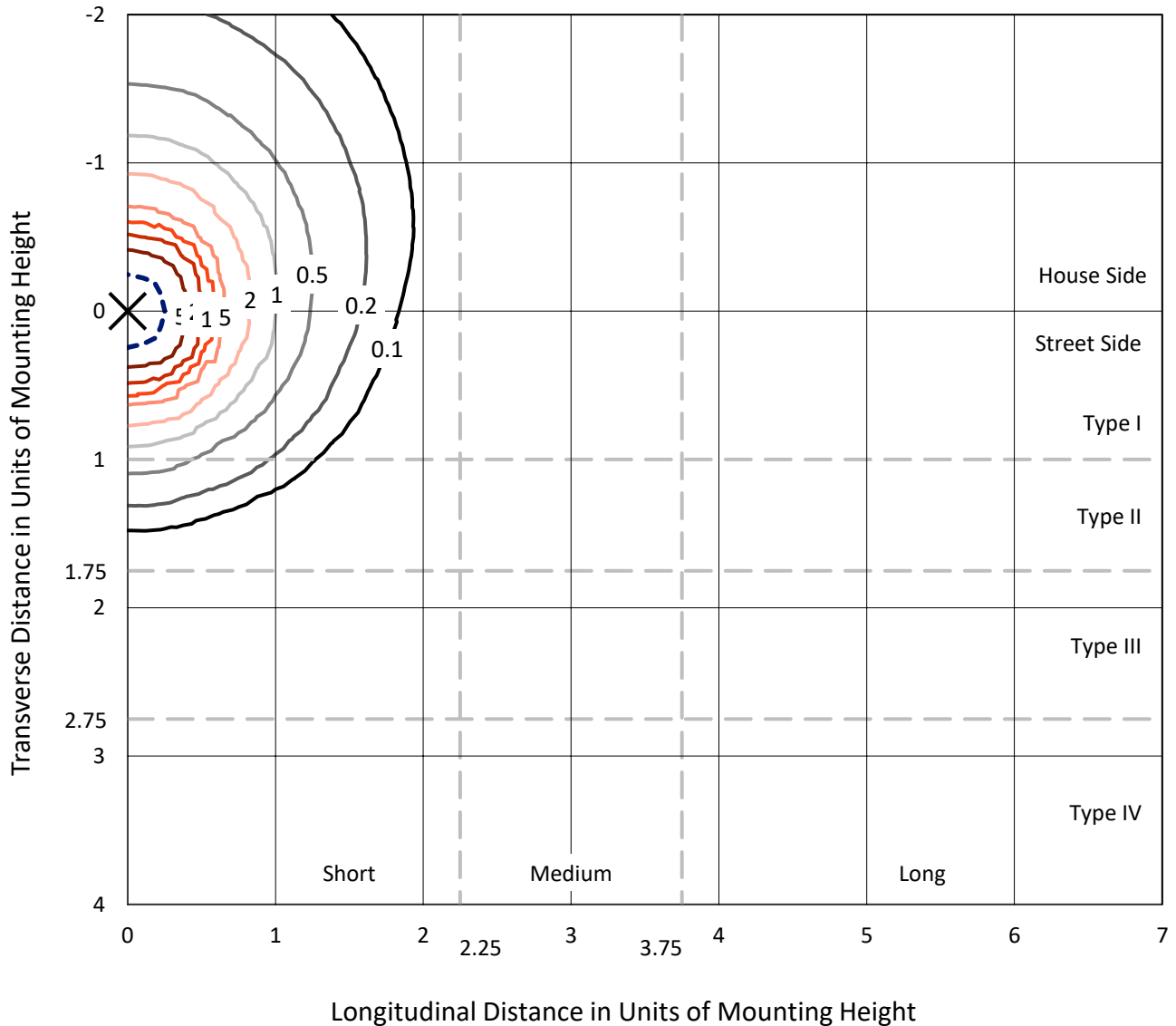
Input Watts (W): 321.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

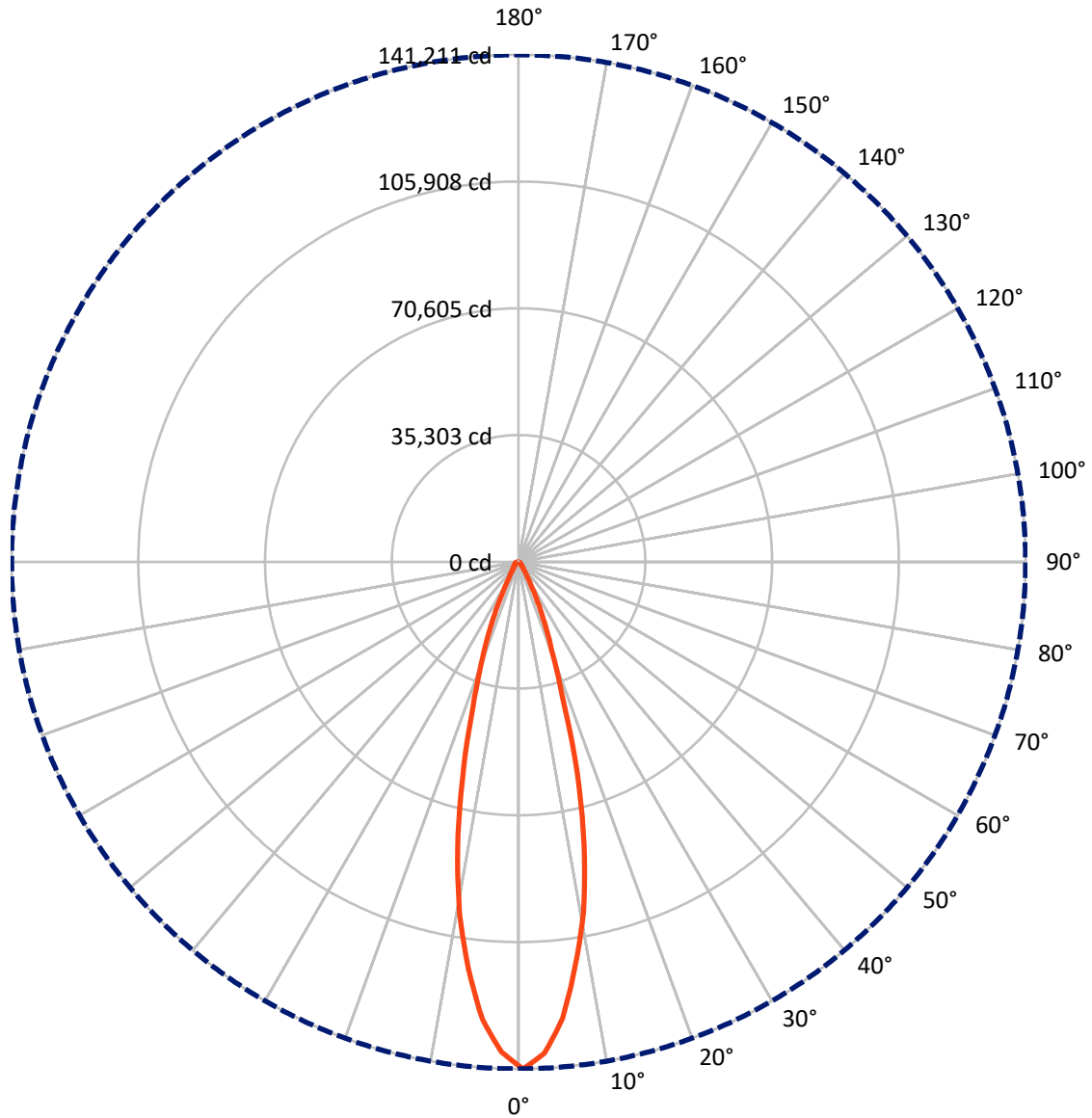
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 353 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral - - - Horizontal Cone Through 0-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	21130.8	0.0	21130.8
	% Fixture	52.7	0.0	52.7
Street Side	Lumens	18945.2	0.0	18945.2
	% Fixture	47.3	0.0	47.3
Total	Lumens	40076.0	0.0	40076.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	11397.0	28.4
10°-20°	17260.6	43.1
20°-30°	7284.1	18.2
30°-40°	1899.7	4.7
40°-50°	960.9	2.4
50°-60°	628.1	1.6
60°-70°	376.3	0.9
70°-80°	197.9	0.5
80°-90°	71.5	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°	40076.0	100.0
0°-180°	40076.0	100.0

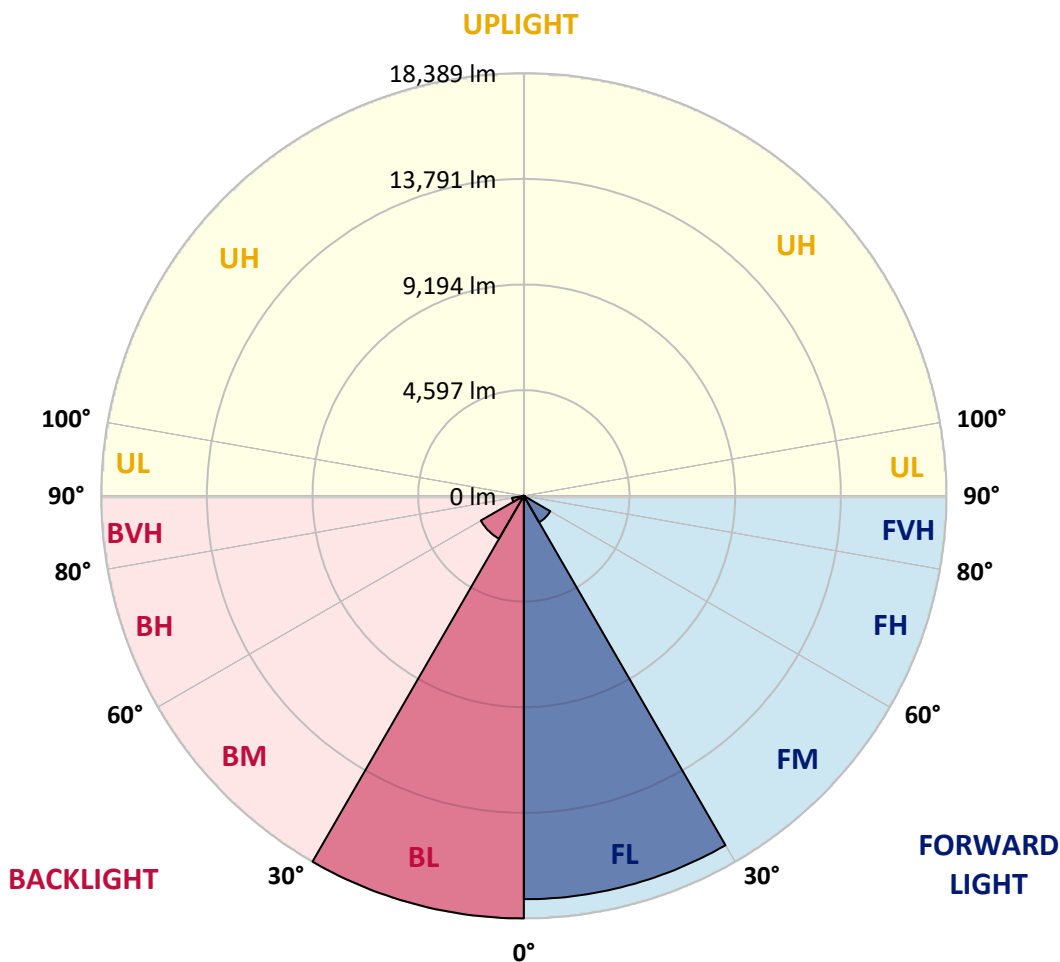


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	17553.0	43.8			
FM (30°-60°)	1329.3	3.3			
FH (60°-80°)	54.2	0.1			G0/660
FVH (80°-90°)	8.7	0.0			G0/10
BL (0°-30°)	18388.6	45.9	B5		
BM (30°-60°)	2159.3	5.4	B2/2500		
BH (60°-80°)	520.1	1.3	B2/1000		G0/660
BVH (80°-90°)	62.8	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-G1
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	141210.6	141210.6	141210.6	141210.6	141210.6	141210.6	141210.6	141210.6	141210.6	141210.6
2.5°	137097.0	137173.5	136890.0	137502.1	137025.0	138303.2	137668.6	138658.7	138325.7	138879.3
5°	127735.8	127609.8	127528.8	128478.4	128203.9	129576.5	128698.9	128410.9	129302.0	129140.0
7.5°	113599.4	113932.5	113743.5	113991.0	114130.5	115696.7	116191.8	115804.7	115818.2	116043.3
10°	99107.5	98617.0	97919.4	98382.9	99364.1	100048.2	99773.6	100340.7	100214.7	100750.3
12.5°	81276.2	81663.2	81271.7	80857.6	82572.4	82383.3	82860.4	83170.9	82392.3	84125.1
15°	61221.6	61424.1	61901.1	61869.6	63188.3	63453.8	63390.8	63719.4	63111.8	63399.8
17.5°	39330.7	40014.8	41297.4	43466.7	45906.0	46189.6	46117.6	45847.5	45555.0	45230.9
20°	26418.5	26346.5	26810.0	27444.6	32494.3	33831.0	33790.4	32944.3	31720.2	31486.1
22.5°	18506.4	18641.5	18578.4	19208.5	20252.7	23938.6	23484.1	22624.5	22223.9	21962.9
25°	12174.1	12124.6	12439.6	12628.7	13524.3	13974.3	15567.5	15248.0	14631.4	14698.9
27.5°	7421.5	7484.5	7601.5	7763.5	8398.1	8254.1	9163.2	9284.7	9086.7	8875.2
30°	4554.6	4599.6	4694.1	4811.1	5031.7	4874.1	5126.2	5562.7	5490.7	5342.2
32.5°	3091.9	3096.4	3163.9	3208.9	3181.9	3033.4	3114.4	3528.5	3537.5	3524.0
35°	2223.3	2223.3	2286.3	2322.3	2245.8	2124.3	2137.8	2394.3	2506.8	2529.3
37.5°	1534.7	1539.2	1647.2	1755.2	1669.7	1638.2	1584.2	1755.2	1935.3	1962.3
40°	1165.7	1161.2	1215.2	1296.2	1305.2	1246.7	1264.7	1372.7	1557.2	1579.7
42.5°	945.1	949.6	976.6	967.6	972.1	1048.6	1075.6	1125.1	1296.2	1336.7
45°	796.6	801.1	814.6	769.6	751.6	868.6	904.6	931.6	1075.6	1125.1
47.5°	657.1	666.1	679.6	630.1	621.1	697.6	760.6	787.6	913.6	967.6
50°	472.6	481.6	531.1	504.1	531.1	549.1	634.6	675.1	760.6	832.6
52.5°	342.0	351.0	364.5	369.0	436.6	445.6	508.6	571.6	612.1	693.1
55°	270.0	279.0	270.0	261.0	319.5	369.0	391.6	459.1	490.6	585.1
57.5°	153.0	162.0	175.5	202.5	211.5	283.5	306.0	364.5	391.6	481.6
60°	27.0	31.5	49.5	121.5	148.5	180.0	229.5	279.0	315.0	378.0
62.5°	4.5	4.5	9.0	27.0	85.5	126.0	166.5	198.0	229.5	288.0
65°	0.0	0.0	4.5	9.0	22.5	72.0	90.0	117.0	157.5	207.0
67.5°	0.0	0.0	4.5	9.0	13.5	27.0	40.5	72.0	90.0	139.5
70°	0.0	0.0	4.5	9.0	13.5	18.0	22.5	31.5	54.0	85.5
72.5°	0.0	0.0	4.5	9.0	13.5	18.0	22.5	27.0	27.0	54.0
75°	0.0	0.0	4.5	9.0	13.5	22.5	27.0	27.0	22.5	22.5
77.5°	0.0	0.0	4.5	9.0	18.0	27.0	31.5	27.0	18.0	18.0
80°	0.0	0.0	9.0	13.5	22.5	31.5	40.5	31.5	18.0	9.0
82.5°	0.0	0.0	9.0	18.0	22.5	36.0	49.5	40.5	18.0	9.0
85°	0.0	0.0	4.5	13.5	27.0	36.0	49.5	36.0	18.0	4.5
87.5°	0.0	0.0	4.5	4.5	9.0	13.5	27.0	22.5	9.0	4.5
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°
141210.6	0°	141210.6	141210.6	141210.6	141210.6	141210.6	141210.6	141210.6	141210.6	141210.6
137830.6	2.5°	138622.7	139342.8	139491.3	139293.3	139581.4	139063.8	138667.7	137641.6	137025.0
129090.5	5°	129923.1	129815.1	130566.7	130814.2	130782.7	130386.7	129833.1	129212.0	128608.9
115606.7	7.5°	116326.8	116466.3	117150.4	117587.0	117366.4	116871.4	116488.8	116020.8	115615.7
100943.8	10°	101866.4	100907.8	101758.4	101758.4	102348.0	100948.3	101078.8	99899.6	99953.6
84093.6	12.5°	84381.6	84728.1	84867.7	85268.2	84579.6	83837.0	82927.9	82747.9	82185.3
62850.8	15°	63755.4	64745.5	63894.9	65348.6	64646.5	63872.4	63732.9	62337.7	62778.8
45586.5	17.5°	45361.5	46455.1	46797.2	47629.8	46990.7	46531.6	45951.0	45528.0	45496.5
31913.7	20°	32165.7	33263.9	33515.9	34515.0	34443.0	34299.0	33808.4	33272.9	32692.3
21724.4	22.5°	22052.9	22948.5	23785.6	25131.3	25108.8	24685.7	24636.2	23880.1	23893.6
14676.4	25°	14829.5	15482.0	15680.1	17057.2	17210.3	17165.3	16908.7	16206.6	16472.2
8965.2	27.5°	8974.2	9545.8	10216.3	10702.4	11161.5	11089.5	10832.9	10441.4	10270.4
5387.2	30°	5531.2	5787.8	6035.3	6620.4	6894.9	7038.9	6917.4	6552.9	6579.9
3546.5	32.5°	3623.0	3839.0	4019.0	4388.1	4532.1	4797.6	4748.1	4671.6	4581.6
2551.8	35°	2641.8	2799.4	2920.9	3091.9	3276.4	3501.5	3537.5	3506.0	3470.0
1971.3	37.5°	2016.3	2178.3	2317.8	2389.8	2533.8	2709.4	2808.4	2803.9	2776.9
1606.7	40°	1638.2	1759.7	1885.7	1980.3	2079.3	2209.8	2331.3	2344.8	2344.8
1350.2	42.5°	1368.2	1471.7	1597.7	1696.7	1768.7	1890.2	2016.3	2025.3	2016.3
1143.2	45°	1170.2	1260.2	1381.7	1498.7	1557.2	1647.2	1768.7	1795.7	1777.7
981.1	47.5°	1017.1	1098.1	1201.7	1327.7	1390.7	1471.7	1584.2	1615.7	1611.2
846.1	50°	873.1	967.6	1071.1	1174.7	1255.7	1332.2	1440.2	1476.2	1462.7
720.1	52.5°	769.6	855.1	945.1	1057.6	1152.2	1219.7	1305.2	1368.2	1350.2
607.6	55°	643.6	747.1	841.6	936.1	1053.1	1125.1	1206.2	1282.7	1264.7
513.1	57.5°	558.1	643.6	751.6	837.1	954.1	1039.6	1120.6	1201.7	1197.2
418.6	60°	468.1	558.1	661.6	751.6	859.6	954.1	1035.1	1125.1	1134.1
315.0	62.5°	369.0	477.1	567.1	670.6	778.6	882.1	954.1	1044.1	1057.6
238.5	65°	279.0	391.6	490.6	589.6	697.6	810.1	873.1	949.6	963.1
175.5	67.5°	207.0	301.5	418.6	508.6	621.1	729.1	787.6	850.6	873.1
108.0	70°	157.5	229.5	351.0	436.6	553.6	639.1	702.1	756.1	774.1
72.0	72.5°	99.0	180.0	283.5	373.5	477.1	553.6	598.6	630.1	657.1
40.5	75°	67.5	139.5	229.5	319.5	396.1	454.6	495.1	522.1	544.6
18.0	77.5°	40.5	108.0	189.0	265.5	315.0	360.0	400.6	418.6	432.1
13.5	80°	22.5	81.0	157.5	216.0	247.5	279.0	310.5	333.0	342.0
9.0	82.5°	13.5	63.0	126.0	166.5	180.0	211.5	243.0	256.5	256.5
4.5	85°	9.0	45.0	85.5	121.5	130.5	153.0	162.0	171.0	180.0
4.5	87.5°	9.0	27.0	54.0	67.5	72.0	81.0	85.5	94.5	103.5
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
141210.6
136570.5
127933.8
114243.0
99427.1
81672.2
62337.7
44659.4
32440.3
23632.6
16053.6
10121.8
6462.9
4550.1
3456.5
2763.4
2317.8
2007.3
1777.7
1602.2
1453.7
1345.7
1273.7
1201.7
1138.6
1066.6
976.6
882.1
783.1
652.6
540.1
427.6
333.0
252.0
175.5
99.0
0.0

(END OF REPORT)