

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: P638166

Luminaire Tested: **IFLD-S-SA3D-740-U-77-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638166
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3D-740-U-77-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor
Light Source: (48) 4000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17927.4 lumens
Efficiency: N/A
Efficacy: 97.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G2

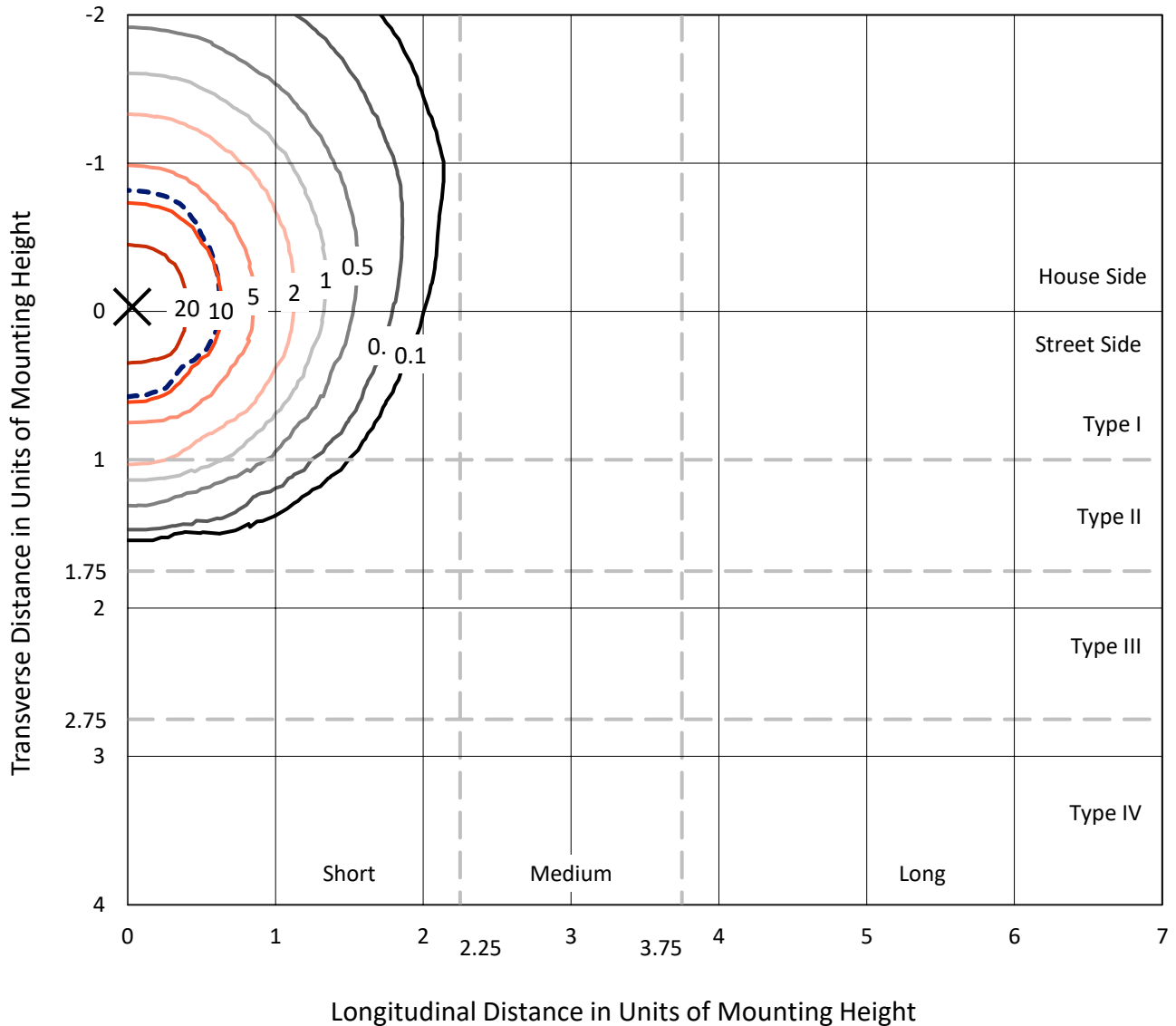
Input Watts (W): 184.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

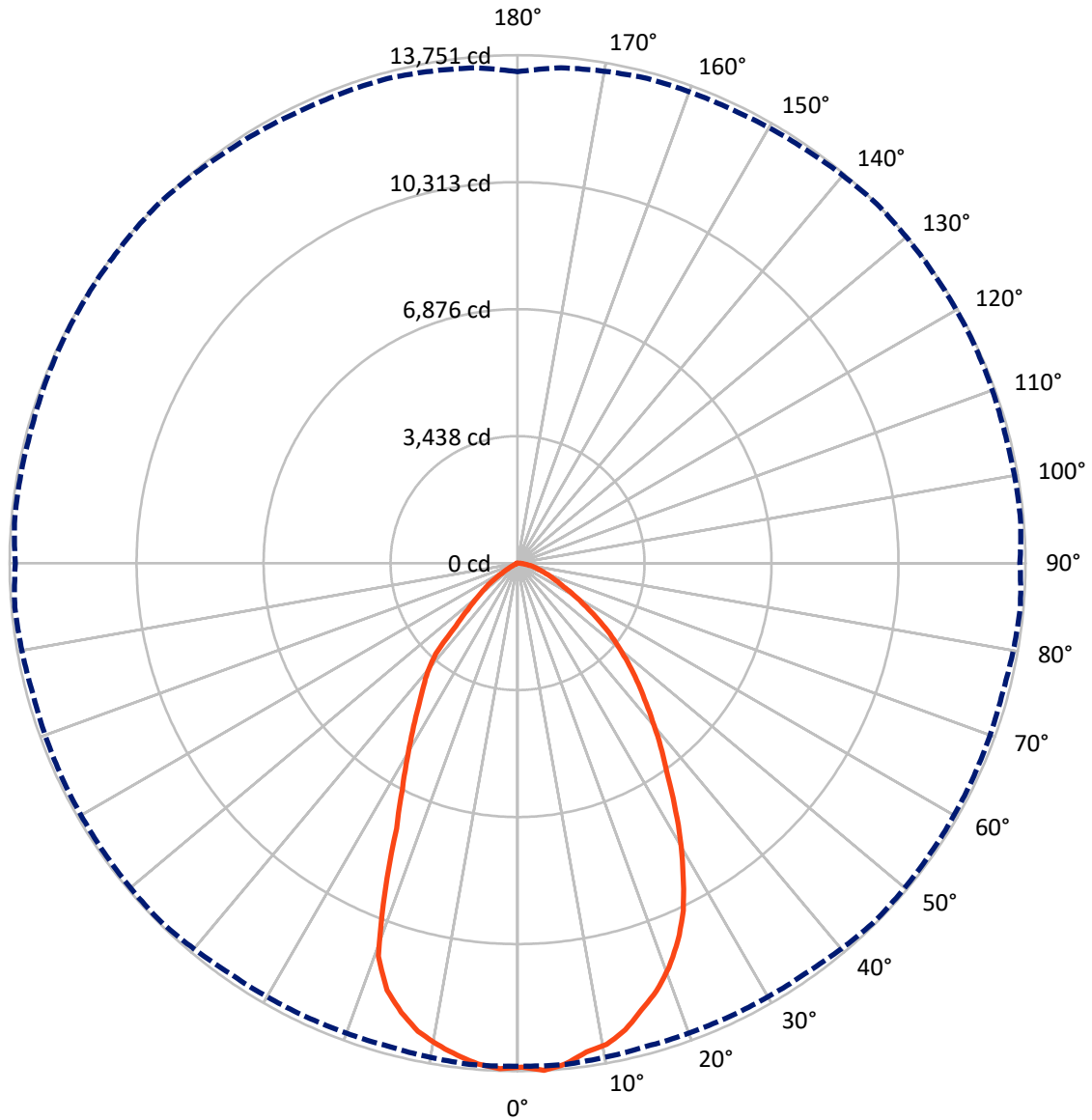
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 34.1 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 135-Deg Lateral - - - Horizontal Cone Through 2.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10617.5	0.0	10617.5
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	7309.9	0.0	7309.9
	% Fixture	40.8	0.0	40.8
Total	Lumens	17927.4	0.0	17927.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1279.5	7.1
10°-20°	3431.0	19.1
20°-30°	4184.3	23.3
30°-40°	3820.2	21.3
40°-50°	2760.8	15.4
50°-60°	1507.4	8.4
60°-70°	623.3	3.5
70°-80°	252.4	1.4
80°-90°	68.7	0.4
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°	17927.4	100.0
0°-180°	17927.4	100.0



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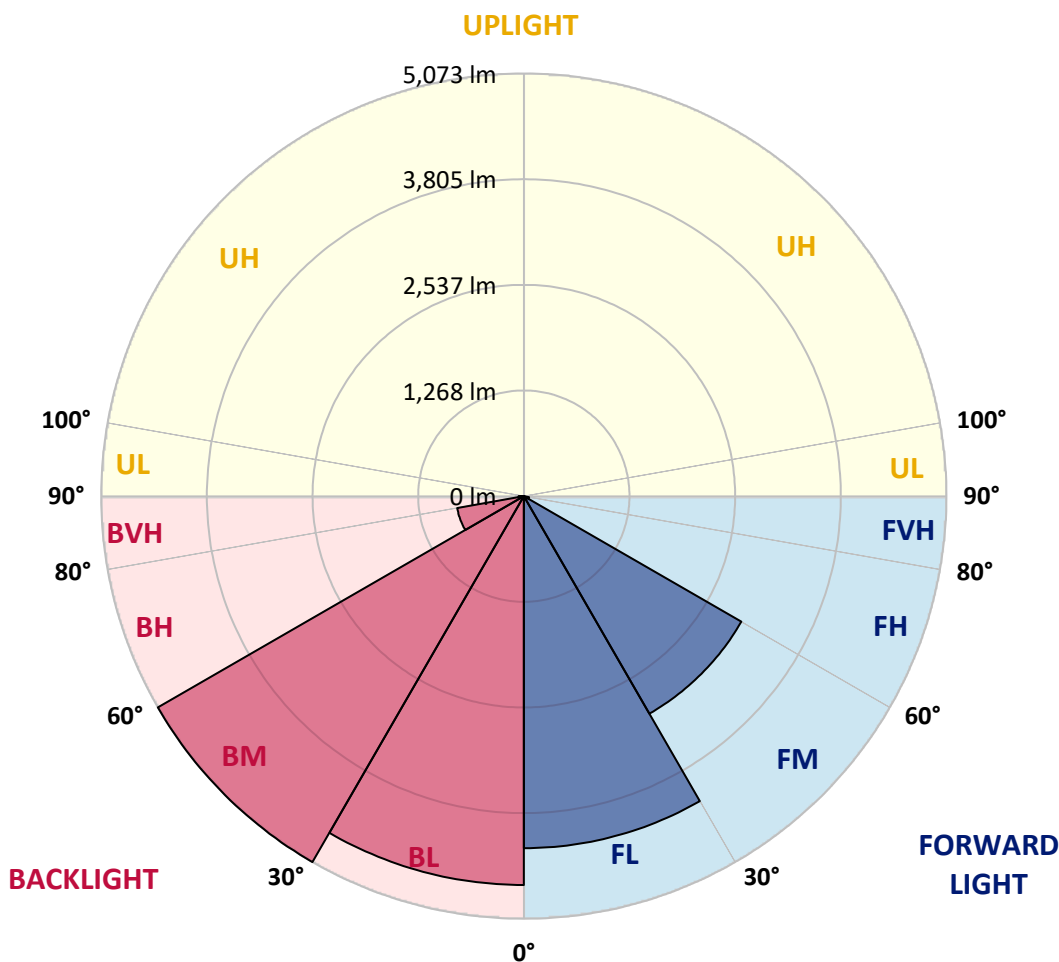
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4226.1	23.6			
FM (30°-60°)	3015.1	16.8			
FH (60°-80°)	63.2	0.4			G0/660
FVH (80°-90°)	5.5	0.0			G0/10
BL (0°-30°)	4668.5	26.0	B4/5000		
BM (30°-60°)	5073.3	28.3	B4/8500		
BH (60°-80°)	812.5	4.5	B2/1000		G2/1000
BVH (80°-90°)	63.2	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	13642.7	13642.7	13642.7	13642.7	13642.7	13642.7	13642.7	13642.7	13642.7	13642.7
2.5°	13617.4	13635.1	13539.2	13549.3	13566.9	13695.7	13662.9	13632.6	13589.7	13662.9
5°	13599.8	13609.9	13508.9	13473.5	13488.7	13604.8	13498.8	13498.8	13488.7	13476.1
7.5°	13463.4	13468.5	13390.2	13327.1	13367.5	13420.5	13342.3	13380.1	13324.6	13367.5
10°	13259.0	13226.1	13132.7	13115.1	13160.5	13211.0	13158.0	13193.3	13142.8	13175.6
12.5°	12958.5	12908.0	12832.3	12809.6	12887.8	12956.0	12913.1	12892.9	12827.3	12908.0
15°	11799.8	11761.9	11933.6	12234.0	12504.1	12562.2	12516.7	12536.9	12400.6	12423.3
17.5°	9712.0	9641.3	9825.6	10537.5	11552.4	12087.6	12047.2	11915.9	11713.9	11759.4
20°	8825.8	8805.6	8785.4	8954.6	9664.0	11287.3	11342.8	11009.6	10721.8	10658.7
22.5°	8326.0	8318.4	8298.2	8336.1	8522.9	9565.5	10201.7	9893.7	9701.9	9684.2
25°	7869.0	7856.4	7795.8	7843.8	7843.8	7904.4	8719.8	8906.6	8737.5	8717.3
27.5°	7404.5	7381.8	7371.7	7394.4	7278.3	6869.3	7076.3	7987.7	7899.3	7904.4
30°	6902.1	6894.6	6866.8	6914.8	6556.3	6048.8	5917.6	7154.6	7172.3	7167.2
32.5°	6154.9	6187.7	6313.9	6366.9	5776.2	5357.1	5137.5	6190.2	6551.2	6543.6
35°	4471.0	4471.0	4882.5	5647.4	5061.7	4746.2	4627.5	5248.5	5937.7	5963.0
37.5°	3675.7	3688.4	3769.2	4117.5	4367.5	4256.4	4221.1	4418.0	5150.1	5190.5
40°	3307.2	3307.2	3307.2	3163.3	3155.7	3834.8	3814.6	3751.5	4448.3	4536.6
42.5°	2971.4	2979.0	2984.0	2620.5	2418.5	3314.7	3269.3	3173.4	3819.6	3923.2
45°	2625.5	2638.2	2653.3	2191.3	2103.0	2385.7	2766.9	2660.9	3198.6	3332.4
47.5°	1603.1	1623.3	1966.6	1858.1	1868.2	1840.4	2257.0	2239.3	2623.0	2812.4
50°	1083.0	1090.6	1123.4	1179.0	1603.1	1446.6	1598.0	1853.0	1991.9	2279.7
52.5°	908.8	921.5	840.7	764.9	1052.7	1131.0	1115.9	1375.9	1431.4	1787.4
55°	638.7	679.1	641.2	633.7	598.3	878.5	845.7	1057.8	1093.1	1358.2
57.5°	65.6	75.7	131.3	472.1	391.3	497.3	603.4	775.0	810.4	1002.2
60°	5.0	5.0	12.6	65.6	285.3	297.9	416.6	477.1	545.3	699.3
62.5°	0.0	2.5	5.0	10.1	45.4	159.0	209.5	249.9	328.2	451.9
65°	0.0	0.0	2.5	7.6	10.1	60.6	80.8	131.3	179.2	280.2
67.5°	0.0	0.0	2.5	5.0	7.6	15.1	27.8	48.0	95.9	159.0
70°	0.0	0.0	2.5	5.0	7.6	12.6	20.2	30.3	42.9	85.8
72.5°	0.0	0.0	2.5	2.5	5.0	12.6	15.1	20.2	30.3	42.9
75°	0.0	0.0	2.5	2.5	7.6	15.1	12.6	15.1	20.2	27.8
77.5°	0.0	0.0	2.5	5.0	7.6	15.1	12.6	15.1	15.1	17.7
80°	0.0	0.0	2.5	5.0	10.1	17.7	15.1	15.1	12.6	12.6
82.5°	0.0	0.0	2.5	7.6	10.1	22.7	22.7	20.2	10.1	7.6
85°	0.0	0.0	5.0	10.1	15.1	25.2	25.2	20.2	7.6	5.0
87.5°	0.0	0.0	5.0	7.6	12.6	17.7	25.2	20.2	7.6	2.5
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°
13642.7	0°	13642.7	13642.7	13642.7	13642.7	13642.7	13642.7	13642.7	13642.7	13642.7
13599.8	2.5°	13667.9	13652.8	13703.3	13723.5	13751.2	13645.2	13579.6	13582.1	13460.9
13445.8	5°	13526.6	13529.1	13594.7	13589.7	13617.4	13559.4	13534.1	13491.2	13385.2
13251.4	7.5°	13347.3	13324.6	13387.7	13435.7	13365.0	13405.4	13347.3	13367.5	13304.4
13079.7	10°	13208.5	13155.4	13213.5	13246.3	13248.9	13208.5	13152.9	13099.9	13077.2
12812.1	12.5°	12900.5	12832.3	12930.8	12976.2	12968.6	12890.4	12827.3	12839.9	12766.7
12342.5	15°	12476.3	12478.9	12549.6	12592.5	12552.1	12534.4	12539.5	12509.2	12446.0
11693.7	17.5°	11827.5	11865.4	12052.2	12155.7	12178.4	12143.1	12125.4	12090.1	12027.0
10658.7	20°	10747.0	10974.2	11307.5	11628.1	11691.2	11681.1	11618.0	11602.8	11567.5
9633.7	22.5°	9797.8	9966.9	10353.2	10853.1	11110.6	11135.8	11060.1	11037.3	10999.5
8717.3	25°	8815.7	8997.5	9345.9	9888.7	10421.4	10529.9	10517.3	10449.1	10408.7
7904.4	27.5°	7987.7	8169.5	8485.0	8974.8	9545.3	9893.7	9926.5	9818.0	9815.5
7179.8	30°	7240.4	7490.3	7730.2	8129.1	8681.9	9204.5	9260.1	9184.3	9191.9
6515.9	32.5°	6654.7	6861.7	7066.2	7333.8	7793.3	8401.7	8618.8	8548.1	8520.4
5963.0	35°	6056.4	6197.8	6407.3	6652.2	6965.2	7568.6	7944.8	7891.8	7864.0
5215.7	37.5°	5374.8	5617.1	5768.6	6043.8	6288.7	6768.3	7298.5	7290.9	7232.8
4579.5	40°	4675.5	4930.5	5160.2	5437.9	5627.2	6008.4	6596.7	6594.1	6601.7
3920.6	42.5°	4041.8	4276.6	4554.3	4857.2	5039.0	5316.7	5947.8	5983.2	6026.1
3377.9	45°	3468.7	3680.8	3938.3	4306.9	4526.5	4685.6	5246.0	5407.6	5405.1
2893.1	47.5°	2953.7	3153.2	3370.3	3728.8	4009.0	4152.9	4617.4	4847.1	4832.0
2373.1	50°	2479.1	2655.8	2883.0	3143.1	3519.2	3645.5	3991.3	4294.3	4271.5
1890.9	52.5°	1994.4	2239.3	2431.1	2668.5	3064.8	3188.5	3456.1	3751.5	3733.8
1418.8	55°	1555.1	1792.4	2024.7	2229.2	2562.4	2746.7	2938.6	3241.5	3236.5
1110.8	57.5°	1176.4	1436.5	1656.1	1850.5	2115.6	2342.8	2496.8	2772.0	2807.3
759.9	60°	871.0	1070.4	1307.7	1524.8	1734.4	1969.2	2072.7	2342.8	2357.9
520.1	62.5°	593.3	812.9	1045.2	1242.1	1398.6	1641.0	1734.4	1956.5	1984.3
333.2	65°	411.5	552.9	818.0	959.3	1151.2	1358.2	1451.6	1628.3	1683.9
191.9	67.5°	272.7	393.8	638.7	767.5	956.8	1098.2	1216.8	1360.7	1421.3
121.2	70°	148.9	290.3	456.9	605.9	770.0	906.3	1022.4	1138.6	1191.6
55.5	72.5°	101.0	194.4	318.1	479.7	621.0	754.8	858.3	944.2	946.7
32.8	75°	50.5	131.3	242.4	371.1	484.7	616.0	709.4	759.9	699.3
20.2	77.5°	30.3	95.9	196.9	297.9	393.8	497.3	550.4	578.1	479.7
15.1	80°	17.7	68.2	154.0	237.3	272.7	366.1	416.6	424.1	320.6
10.1	82.5°	12.6	50.5	121.2	174.2	166.6	257.5	313.0	302.9	204.5
7.6	85°	7.6	35.3	75.7	108.6	101.0	169.1	181.8	186.8	118.7
5.0	87.5°	5.0	20.2	40.4	58.1	48.0	73.2	73.2	88.4	58.1
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
13642.7
13304.4
13359.9
13198.4
12976.2
12703.6
12382.9
11999.2
11486.7
10989.4
10365.8
9810.4
9154.0
8522.9
7826.1
7280.8
6601.7
6003.4
5410.1
4837.0
4291.7
3771.7
3249.1
2792.2
2380.7
1989.3
1671.3
1413.7
1171.4
924.0
653.9
462.0
300.4
189.3
108.6
50.5
0.0

(END OF REPORT)