

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: P638425

Luminaire Tested: **IFLD-S-SA3B-740-U-LAM-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638425
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3B-740-U-LAM-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens and Visor
Light Source: (48) 4000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12541.3 lumens
Efficiency: N/A
Efficacy: 102.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G2

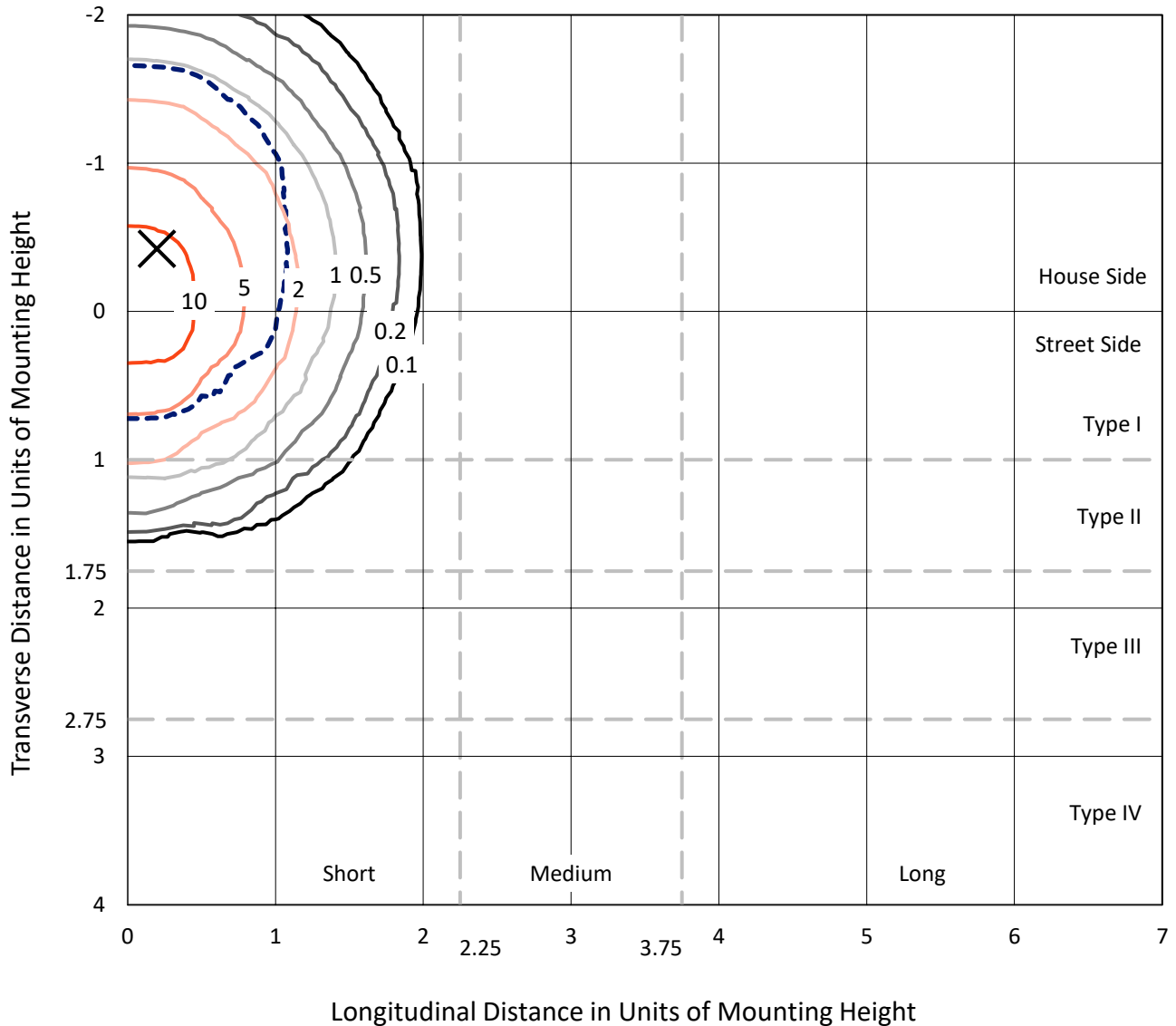
Input Watts (W): 122.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

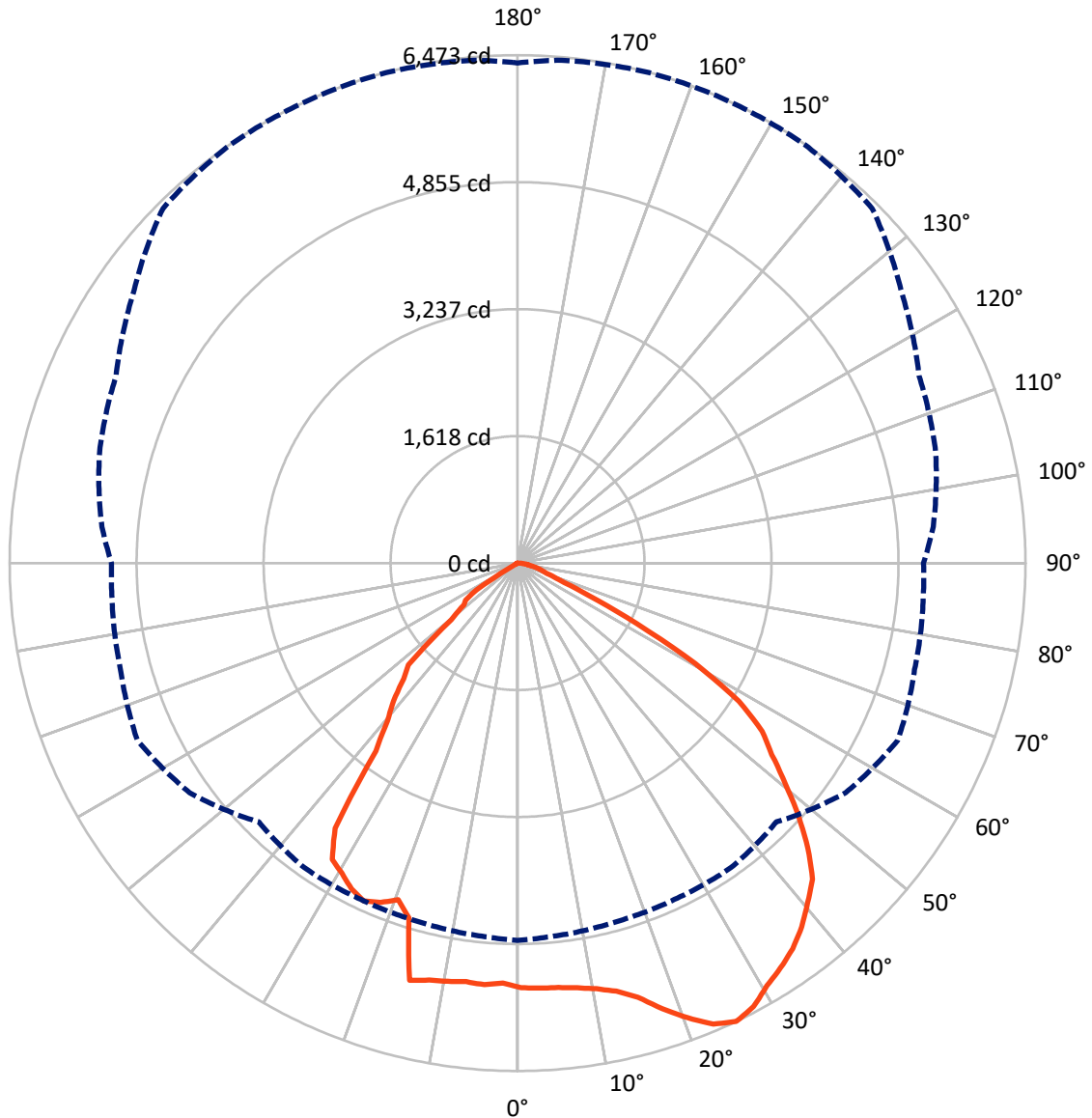
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 13.5 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 155-Deg Lateral - - - Horizontal Cone Through 25-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7764.4	0.0	7764.4
	% Fixture	61.9	0.0	61.9
Street Side	Lumens	4776.9	0.0	4776.9
	% Fixture	38.1	0.0	38.1
Total	Lumens	12541.3	0.0	12541.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	519.1	4.1
10°-20°	1585.2	12.6
20°-30°	2506.1	20.0
30°-40°	2830.9	22.6
40°-50°	2651.2	21.1
50°-60°	1827.8	14.6
60°-70°	491.1	3.9
70°-80°	102.3	0.8
80°-90°	27.7	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°	12541.3	100.0
0°-180°	12541.3	100.0



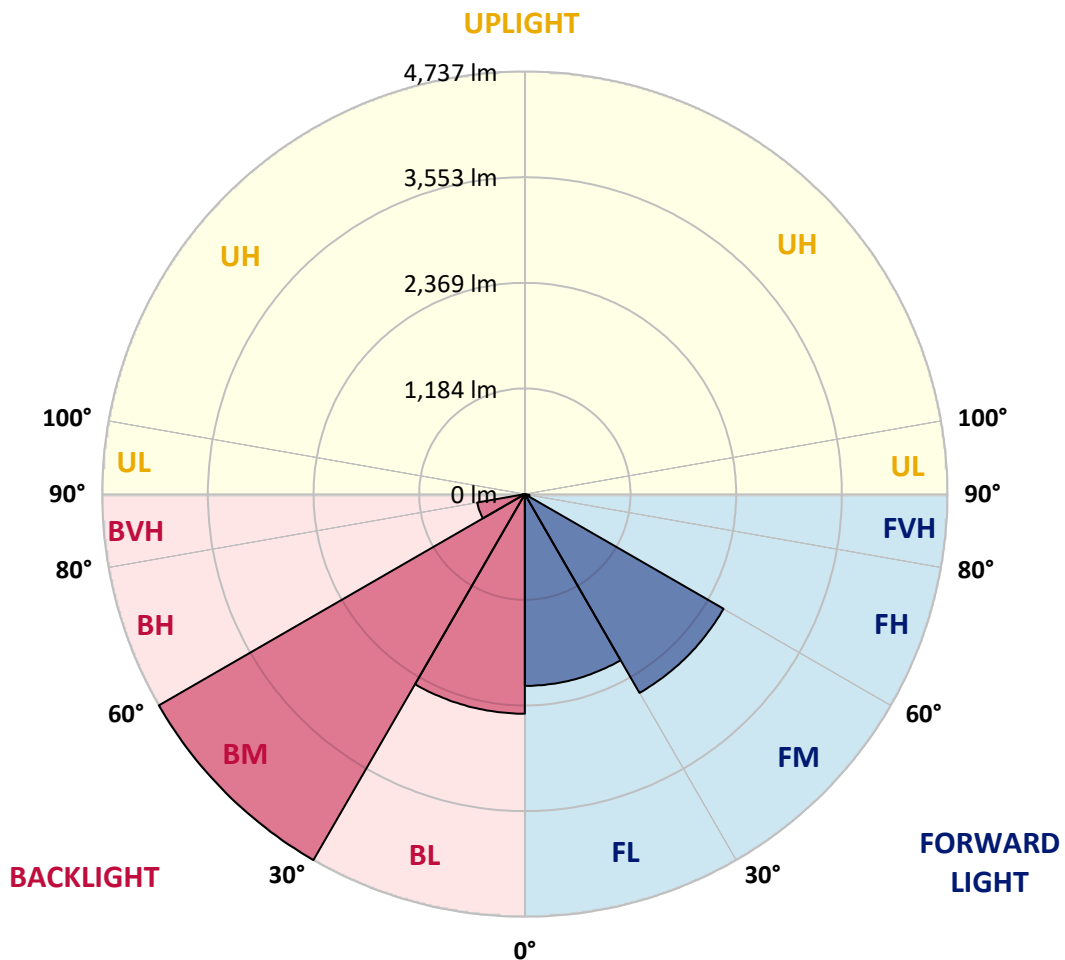
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2149.2	17.1			
FM (30°-60°)	2572.5	20.5			
FH (60°-80°)	51.5	0.4			G0/660
FVH (80°-90°)	3.7	0.0			G0/10
BL (0°-30°)	2461.3	19.6	B3/2500		
BM (30°-60°)	4737.3	37.8	B3/5000		
BH (60°-80°)	541.8	4.3	B2/1000		G2/1000
BVH (80°-90°)	24.0	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	5411.4	5411.4	5411.4	5411.4	5411.4	5411.4	5411.4	5411.4	5411.4	5411.4
2.5°	5435.3	5400.3	5367.1	5356.1	5402.1	5451.9	5420.6	5422.4	5411.4	5431.6
5°	5475.9	5427.9	5405.8	5389.2	5396.6	5448.2	5404.0	5420.6	5402.1	5426.1
7.5°	5461.1	5427.9	5405.8	5374.5	5398.5	5459.3	5416.9	5418.7	5409.5	5431.6
10°	5451.9	5427.9	5400.3	5404.0	5431.6	5483.2	5450.1	5468.5	5455.6	5468.5
12.5°	5474.0	5448.2	5433.5	5433.5	5457.4	5516.4	5499.8	5516.4	5510.9	5521.9
15°	5265.7	5289.7	5429.8	5492.5	5540.4	5599.4	5592.0	5608.6	5612.3	5628.8
17.5°	4441.9	4417.9	4406.9	4729.4	5586.4	5768.9	5763.4	5761.5	5743.1	5730.2
20°	4550.6	4541.4	4528.5	4552.5	4648.3	5857.4	5894.2	5667.5	5601.2	5595.7
22.5°	4723.9	4709.1	4661.2	4663.1	4692.5	5092.5	5711.8	5505.4	5483.2	5470.3
25°	4808.7	4779.2	4740.5	4729.4	4738.6	4664.9	5101.7	5346.8	5238.1	5188.3
27.5°	4659.4	4661.2	4629.9	4659.4	4624.3	4292.6	4106.4	5037.2	5033.5	5011.4
30°	4546.9	4541.4	4504.5	4541.4	4300.0	3929.5	3850.2	4698.1	4659.4	4629.9
32.5°	4202.3	4206.0	4312.9	4456.6	4060.4	3767.3	3527.7	4196.7	4563.5	4546.9
35°	3006.1	3013.5	3393.2	4102.7	3697.3	3444.8	3426.3	3627.2	4412.4	4419.8
37.5°	2893.7	2893.7	2884.5	3000.6	3411.6	3313.9	3350.8	3330.5	4041.9	4060.4
40°	2812.6	2796.0	2783.1	2600.6	2372.1	3221.7	3247.5	3155.4	3820.8	3824.4
42.5°	2714.9	2696.5	2700.1	2362.9	2123.3	2993.2	2921.3	2797.8	3452.1	3455.8
45°	2536.1	2567.4	2589.6	2068.0	2049.5	2138.0	2694.6	2617.2	3203.3	3271.5
47.5°	1290.2	1317.8	2021.9	1902.1	1944.5	1900.2	2276.2	2278.1	2665.1	2891.8
50°	1170.4	1163.0	1164.8	1109.5	1795.2	1537.1	1645.9	2088.2	2134.3	2458.7
52.5°	1091.1	1089.3	976.8	868.1	1128.0	1352.8	1194.3	1511.3	1586.9	2082.7
55°	807.3	866.3	770.4	816.5	705.9	1083.7	1078.2	1363.9	1389.7	1669.9
57.5°	7.4	9.2	22.1	621.1	488.4	541.9	744.6	930.8	976.8	1301.2
60°	1.8	3.7	9.2	18.4	317.0	333.6	497.6	538.2	606.4	775.9
62.5°	0.0	0.0	3.7	9.2	16.6	136.4	158.5	173.3	267.3	396.3
65°	0.0	0.0	1.8	5.5	9.2	22.1	38.7	81.1	116.1	143.8
67.5°	0.0	0.0	1.8	3.7	7.4	11.1	22.1	31.3	49.8	84.8
70°	0.0	0.0	1.8	3.7	5.5	9.2	14.7	22.1	29.5	42.4
72.5°	0.0	0.0	1.8	3.7	3.7	11.1	11.1	16.6	22.1	27.6
75°	0.0	0.0	1.8	1.8	3.7	7.4	11.1	12.9	14.7	22.1
77.5°	0.0	0.0	1.8	3.7	5.5	7.4	9.2	14.7	12.9	12.9
80°	0.0	0.0	1.8	5.5	5.5	9.2	11.1	14.7	9.2	9.2
82.5°	0.0	0.0	1.8	7.4	5.5	18.4	18.4	20.3	7.4	7.4
85°	0.0	0.0	5.5	3.7	11.1	18.4	16.6	11.1	9.2	5.5
87.5°	0.0	0.0	1.8	1.8	3.7	5.5	12.9	11.1	3.7	3.7
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°
5411.4	0°	5411.4	5411.4	5411.4	5411.4	5411.4	5411.4	5411.4	5411.4	5411.4
5378.2	2.5°	5451.9	5427.9	5477.7	5472.2	5448.2	5437.2	5424.3	5413.2	5332.1
5381.9	5°	5453.7	5416.9	5477.7	5466.6	5463.0	5444.5	5433.5	5450.1	5376.3
5396.6	7.5°	5453.7	5416.9	5483.2	5486.9	5481.4	5466.6	5464.8	5475.9	5415.0
5422.4	10°	5490.6	5475.9	5531.2	5536.7	5529.3	5525.6	5516.4	5509.0	5444.5
5510.9	12.5°	5568.0	5538.5	5601.2	5617.8	5612.3	5621.5	5599.4	5610.4	5544.1
5601.2	15°	5662.0	5663.9	5711.8	5748.6	5745.0	5774.4	5741.3	5770.8	5722.8
5704.4	17.5°	5805.8	5826.1	5894.2	5949.5	5969.8	5991.9	5969.8	5979.0	5910.8
5590.1	20°	5654.6	5730.2	6058.3	6159.7	6202.0	6222.3	6185.5	6196.5	6128.3
5450.1	22.5°	5518.3	5615.9	5907.1	6224.2	6355.0	6395.6	6382.7	6380.8	6355.0
5173.6	25°	5317.4	5514.6	5645.4	5980.9	6391.9	6465.6	6473.0	6471.1	6432.4
5004.0	27.5°	5070.4	5114.6	5453.7	5658.3	6133.9	6414.0	6402.9	6349.5	6297.9
4652.0	30°	4755.2	4956.1	5109.1	5435.3	5800.2	6255.5	6255.5	6214.9	6161.5
4526.7	32.5°	4594.9	4854.7	4996.7	5114.6	5426.1	6078.6	6152.3	6109.9	6067.5
4429.0	35°	4510.1	4548.8	4880.5	4987.4	5251.0	5737.6	6036.2	5993.8	5962.4
4169.1	37.5°	4323.9	4414.2	4569.1	4854.7	4935.8	5459.3	5881.3	5859.2	5822.4
3831.8	40°	3909.2	4150.7	4388.4	4659.4	4744.2	5101.7	5693.3	5702.6	5652.8
3472.4	42.5°	3664.1	3828.1	4200.4	4382.9	4611.4	4871.3	5510.9	5525.6	5490.6
3289.9	45°	3376.6	3559.0	3820.8	4152.5	4464.0	4554.3	5188.3	5343.2	5313.7
2926.8	47.5°	3113.0	3260.5	3581.2	3916.6	4261.3	4248.4	4817.9	5109.1	5068.5
2648.5	50°	2738.9	2996.9	3148.0	3455.8	3970.0	4005.1	4423.5	4834.5	4801.3
2250.4	52.5°	2309.4	2633.8	2923.2	3205.2	3675.1	3758.1	4056.7	4554.3	4532.2
1719.6	55°	2018.2	2254.1	2580.3	2807.0	3317.6	3538.8	3782.0	4287.1	4276.0
1413.7	57.5°	1435.8	1891.0	2160.1	2477.1	2746.2	3146.2	3326.8	3743.3	3640.1
783.3	60°	973.2	1187.0	1515.0	1856.0	2036.6	2436.6	2604.3	2937.9	2910.3
468.1	62.5°	514.2	711.4	945.5	1116.9	1247.8	1636.7	1706.7	2066.1	2056.9
188.0	65°	226.7	300.4	512.4	600.9	735.4	916.0	976.8	1105.9	1074.5
92.2	67.5°	118.0	178.8	289.4	355.7	447.9	516.1	565.8	606.4	632.2
60.8	70°	71.9	130.9	178.8	247.0	307.8	363.1	401.8	457.1	490.3
31.3	72.5°	53.5	82.9	123.5	189.8	223.0	287.5	326.2	366.8	396.3
25.8	75°	29.5	55.3	99.5	149.3	178.8	234.1	269.1	296.7	306.0
14.7	77.5°	18.4	42.4	82.9	116.1	140.1	189.8	180.6	206.4	228.5
11.1	80°	12.9	31.3	64.5	95.8	97.7	121.6	143.8	165.9	180.6
7.4	82.5°	9.2	25.8	47.9	73.7	64.5	94.0	112.4	129.0	94.0
5.5	85°	7.4	18.4	24.0	44.2	36.9	66.4	57.1	55.3	36.9
3.7	87.5°	5.5	9.2	16.6	20.3	14.7	14.7	18.4	22.1	18.4
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
5411.4
5276.8
5313.7
5345.0
5391.1
5485.1
5643.6
5851.9
6080.4
6272.1
6373.5
6257.3
6141.2
6032.5
5918.2
5785.5
5641.7
5486.9
5317.4
5098.0
4806.8
4546.9
4288.9
3629.1
2912.1
2058.7
1061.6
632.2
492.1
401.8
300.4
232.2
182.5
68.2
36.9
18.4
0.0

(END OF REPORT)