

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: P638365

Luminaire Tested: **IFLD-S-SA2E-730-U-LAM-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638365
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2E-730-U-LAM-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens and Visor
Light Source: (32) 3000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12147.3 lumens
Efficiency: N/A
Efficacy: 77.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G2

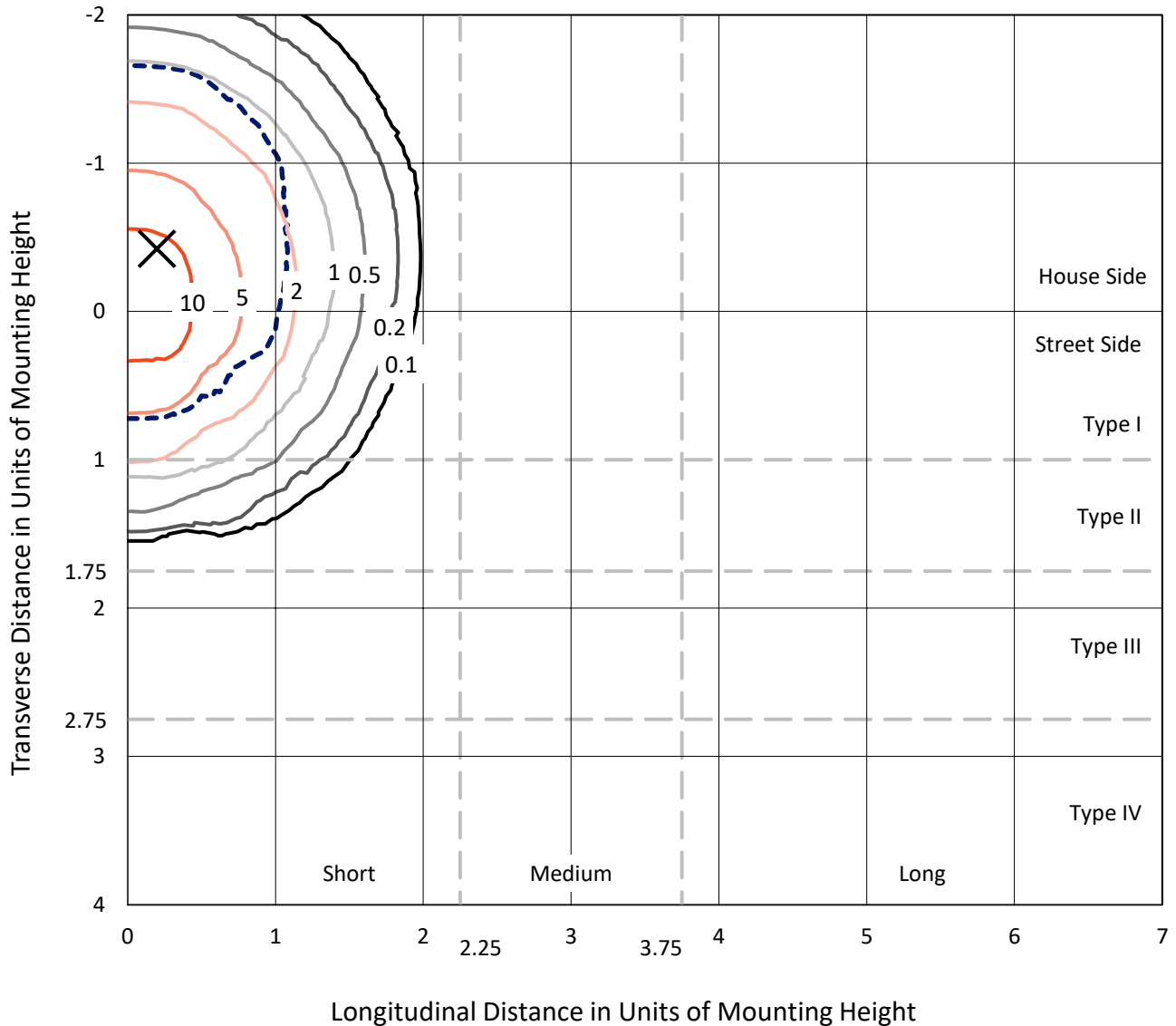
Input Watts (W): 156.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P638365
 CATALOG NUMBER: IFLD-S-SA2E-730-U-LAM-VI

Iso-Footcandle Lines of Horizontal Illumination

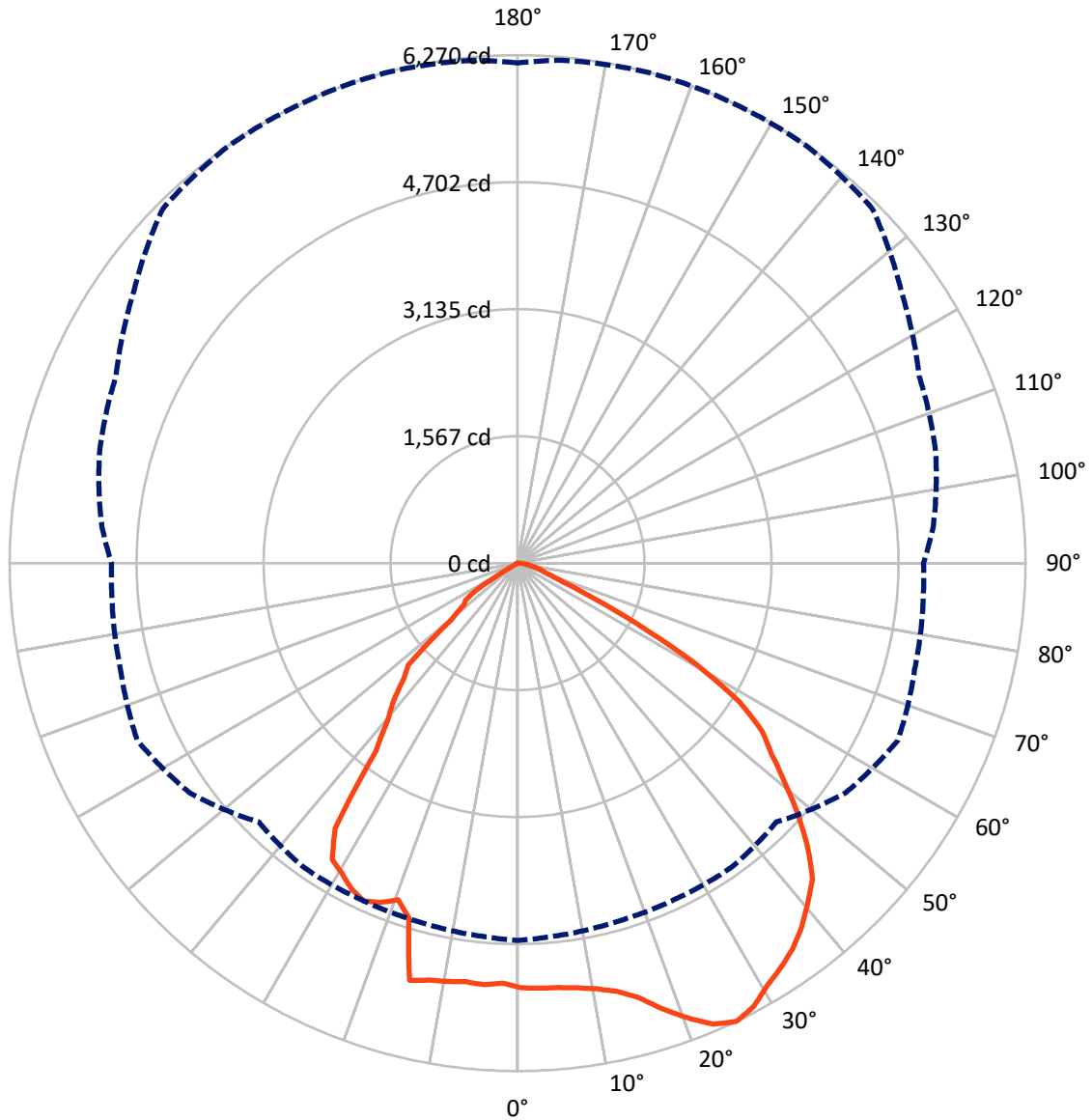
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 13.1 fc
 Type I - Short - N/A

REPORT NUMBER: P638365
CATALOG NUMBER: IFLD-S-SA2E-730-U-LAM-VI

Luminous Intensity Polar Plot



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

REPORT NUMBER: P638365
 CATALOG NUMBER: IFLD-S-SA2E-730-U-LAM-VI

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7520.4	0.0	7520.4
	% Fixture	61.9	0.0	61.9
Street Side	Lumens	4626.9	0.0	4626.9
	% Fixture	38.1	0.0	38.1
Total	Lumens	12147.3	0.0	12147.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	502.8	4.1
10°-20°	1535.4	12.6
20°-30°	2427.4	20.0
30°-40°	2741.9	22.6
40°-50°	2567.9	21.1
50°-60°	1770.4	14.6
60°-70°	475.6	3.9
70°-80°	99.1	0.8
80°-90°	26.8	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°	12147.3	100.0
0°-180°	12147.3	100.0



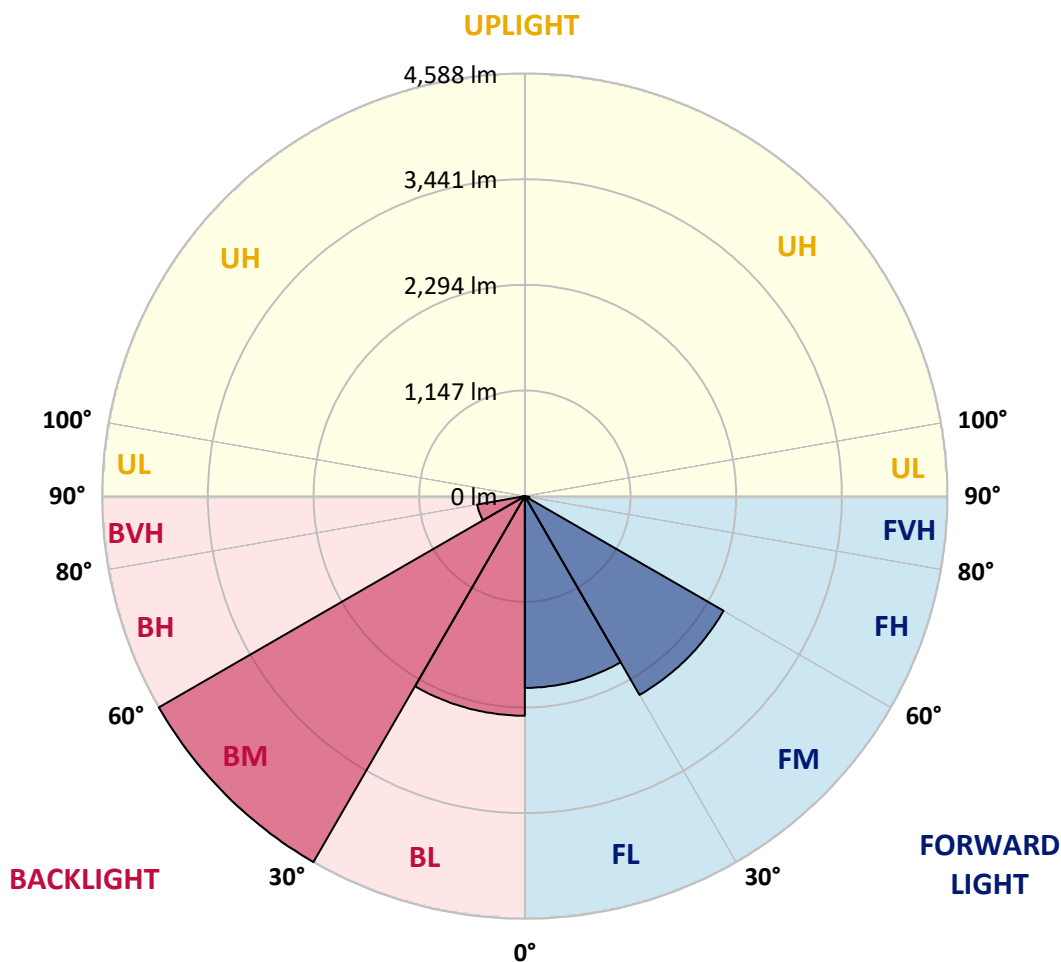
REPORT NUMBER: P638365
 CATALOG NUMBER: IFLD-S-SA2E-730-U-LAM-VI

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2081.7	17.1			
FM	(30°-60°)	2491.7	20.5			
FH	(60°-80°)	49.9	0.4			G0/660
FVH	(80°-90°)	3.6	0.0			G0/10
BL	(0°-30°)	2383.9	19.6	B3/2500		
BM	(30°-60°)	4588.5	37.8	B3/5000		
BH	(60°-80°)	524.8	4.3	B2/1000		G2/1000
BVH	(80°-90°)	23.2	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





REPORT NUMBER: P638365
 CATALOG NUMBER: IFLD-S-SA2E-730-U-LAM-VI

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	5241.3	5241.3	5241.3	5241.3	5241.3	5241.3	5241.3	5241.3	5241.3	5241.3
2.5°	5264.6	5230.6	5198.5	5187.8	5232.4	5280.6	5250.3	5252.1	5241.3	5261.0
5°	5303.8	5257.4	5236.0	5219.9	5227.1	5277.1	5234.2	5250.3	5232.4	5255.6
7.5°	5289.5	5257.4	5236.0	5205.6	5228.9	5287.8	5246.7	5248.5	5239.6	5261.0
10°	5280.6	5257.4	5230.6	5234.2	5261.0	5311.0	5278.8	5296.7	5284.2	5296.7
12.5°	5302.0	5277.1	5262.8	5262.8	5286.0	5343.1	5327.0	5343.1	5337.7	5348.5
15°	5100.3	5123.5	5259.2	5319.9	5366.3	5423.4	5416.3	5432.4	5435.9	5452.0
17.5°	4302.3	4279.1	4268.4	4580.8	5410.9	5587.7	5582.3	5580.5	5562.7	5550.2
20°	4407.7	4398.7	4386.2	4409.4	4502.3	5673.4	5709.1	5489.5	5425.2	5419.9
22.5°	4575.5	4561.2	4514.8	4516.6	4545.1	4932.5	5532.3	5332.4	5311.0	5298.5
25°	4657.6	4629.0	4591.5	4580.8	4589.7	4518.3	4941.4	5178.9	5073.5	5025.3
27.5°	4513.0	4514.8	4484.4	4513.0	4479.1	4157.7	3977.4	4879.0	4875.4	4854.0
30°	4404.1	4398.7	4363.0	4398.7	4164.9	3806.0	3729.3	4550.5	4513.0	4484.4
32.5°	4070.3	4073.8	4177.4	4316.6	3932.8	3648.9	3416.9	4064.9	4420.2	4404.1
35°	2911.7	2918.8	3286.6	3973.9	3581.1	3336.5	3318.7	3513.3	4273.8	4280.9
37.5°	2802.8	2802.8	2793.8	2906.3	3304.4	3209.8	3245.5	3225.9	3914.9	3932.8
40°	2724.2	2708.1	2695.7	2518.9	2297.6	3120.5	3145.5	3056.3	3700.7	3704.3
42.5°	2629.6	2611.7	2615.3	2288.6	2056.6	2899.2	2829.5	2709.9	3343.7	3347.3
45°	2456.4	2486.8	2508.2	2003.0	1985.1	2070.8	2610.0	2535.0	3102.7	3168.7
47.5°	1249.6	1276.4	1958.4	1842.3	1883.4	1840.5	2204.7	2206.5	2581.4	2801.0
50°	1133.6	1126.5	1128.2	1074.7	1738.8	1488.9	1594.2	2022.6	2067.3	2381.5
52.5°	1056.8	1055.1	946.2	840.8	1092.5	1310.3	1156.8	1463.9	1537.1	2017.3
55°	781.9	839.0	746.2	790.8	683.7	1049.7	1044.3	1321.0	1346.0	1617.4
57.5°	7.1	8.9	21.4	601.6	473.1	524.8	721.2	901.5	946.2	1260.4
60°	1.8	3.6	8.9	17.9	307.1	323.1	482.0	521.3	587.3	751.6
62.5°	0.0	0.0	3.6	8.9	16.1	132.1	153.5	167.8	258.9	383.8
65°	0.0	0.0	1.8	5.4	8.9	21.4	37.5	78.5	112.5	139.2
67.5°	0.0	0.0	1.8	3.6	7.1	10.7	21.4	30.3	48.2	82.1
70°	0.0	0.0	1.8	3.6	5.4	8.9	14.3	21.4	28.6	41.1
72.5°	0.0	0.0	1.8	3.6	3.6	10.7	10.7	16.1	21.4	26.8
75°	0.0	0.0	1.8	1.8	3.6	7.1	10.7	12.5	14.3	21.4
77.5°	0.0	0.0	1.8	3.6	5.4	7.1	8.9	14.3	12.5	12.5
80°	0.0	0.0	1.8	5.4	5.4	8.9	10.7	14.3	8.9	8.9
82.5°	0.0	0.0	1.8	7.1	5.4	17.9	17.9	19.6	7.1	7.1
85°	0.0	0.0	5.4	3.6	10.7	17.9	16.1	10.7	8.9	5.4
87.5°	0.0	0.0	1.8	1.8	3.6	5.4	12.5	10.7	3.6	3.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P638365

CATALOG NUMBER: IFLD-S-SA2E-730-U-LAM-VI

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
5241.3	0°	5241.3	5241.3	5241.3	5241.3	5241.3	5241.3	5241.3	5241.3	5241.3
5209.2	2.5°	5280.6	5257.4	5305.6	5300.3	5277.1	5266.3	5253.8	5243.1	5164.6
5212.8	5°	5282.4	5246.7	5305.6	5294.9	5291.3	5273.5	5262.8	5278.8	5207.4
5227.1	7.5°	5282.4	5246.7	5311.0	5314.5	5309.2	5294.9	5293.1	5303.8	5244.9
5252.1	10°	5318.1	5303.8	5357.4	5362.7	5355.6	5352.0	5343.1	5336.0	5273.5
5337.7	12.5°	5393.1	5364.5	5425.2	5441.3	5435.9	5444.9	5423.4	5434.1	5369.9
5425.2	15°	5484.1	5485.9	5532.3	5568.0	5564.5	5593.0	5560.9	5589.5	5543.0
5525.2	17.5°	5623.4	5643.0	5709.1	5762.6	5782.3	5803.7	5782.3	5791.2	5725.1
5414.5	20°	5477.0	5550.2	5868.0	5966.1	6007.2	6026.8	5991.1	6001.8	5935.8
5278.8	22.5°	5344.9	5439.5	5721.6	6028.6	6155.4	6194.6	6182.1	6180.4	6155.4
5011.1	25°	5150.3	5341.3	5468.1	5793.0	6191.1	6262.5	6269.6	6267.8	6230.3
4846.8	27.5°	4911.1	4953.9	5282.4	5480.6	5941.1	6212.5	6201.8	6150.0	6100.0
4505.8	30°	4605.8	4800.4	4948.6	5264.6	5618.0	6059.0	6059.0	6019.7	5967.9
4384.5	32.5°	4450.5	4702.2	4839.7	4953.9	5255.6	5887.6	5959.0	5917.9	5876.9
4289.8	35°	4368.4	4405.9	4727.2	4830.8	5086.0	5557.3	5846.5	5805.5	5775.1
4038.1	37.5°	4188.1	4275.6	4425.5	4702.2	4780.8	5287.8	5696.6	5675.2	5639.4
3711.4	40°	3786.4	4020.3	4250.6	4513.0	4595.1	4941.4	5514.5	5523.4	5475.2
3363.3	42.5°	3549.0	3707.9	4068.5	4245.2	4466.6	4718.3	5337.7	5352.0	5318.1
3186.6	45°	3270.5	3447.2	3700.7	4022.1	4323.8	4411.2	5025.3	5175.3	5146.7
2834.9	47.5°	3015.2	3158.0	3468.6	3793.6	4127.4	4114.9	4666.5	4948.6	4909.3
2565.3	50°	2652.8	2902.7	3049.1	3347.3	3845.3	3879.2	4284.5	4682.6	4650.4
2179.7	52.5°	2236.9	2551.1	2831.3	3104.5	3559.7	3640.0	3929.2	4411.2	4389.8
1665.6	55°	1954.8	2183.3	2499.3	2718.9	3213.4	3427.6	3663.2	4152.4	4141.7
1369.2	57.5°	1390.7	1831.6	2092.3	2399.3	2659.9	3047.3	3222.3	3625.7	3525.8
758.7	60°	942.6	1149.7	1467.4	1797.7	1972.6	2360.0	2522.5	2845.6	2818.8
453.4	62.5°	498.1	689.1	915.8	1081.8	1208.6	1585.3	1653.1	2001.2	1992.3
182.1	65°	219.6	291.0	496.3	582.0	712.3	887.2	946.2	1071.1	1040.8
89.3	67.5°	114.3	173.2	280.3	344.5	433.8	499.9	548.1	587.3	612.3
58.9	70°	69.6	126.7	173.2	239.2	298.1	351.7	389.2	442.7	474.9
30.3	72.5°	51.8	80.3	119.6	183.9	216.0	278.5	316.0	355.3	383.8
25.0	75°	28.6	53.6	96.4	144.6	173.2	226.7	260.6	287.4	296.3
14.3	77.5°	17.9	41.1	80.3	112.5	135.7	183.9	174.9	199.9	221.4
10.7	80°	12.5	30.3	62.5	92.8	94.6	117.8	139.2	160.7	174.9
7.1	82.5°	8.9	25.0	46.4	71.4	62.5	91.0	108.9	125.0	91.0
5.4	85°	7.1	17.9	23.2	42.8	35.7	64.3	55.3	53.6	35.7
3.6	87.5°	5.4	8.9	16.1	19.6	14.3	14.3	17.9	21.4	17.9
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
5241.3
5111.0
5146.7
5177.1
5221.7
5312.8
5466.3
5668.0
5889.4
6075.0
6173.2
6060.8
5948.3
5843.0
5732.3
5603.7
5464.5
5314.5
5150.3
4937.9
4655.8
4404.1
4154.2
3515.1
2820.6
1994.1
1028.3
612.3
476.6
389.2
291.0
224.9
176.7
66.1
35.7
17.9
0.0

(END OF REPORT)