

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: P638423

Luminaire Tested: **IFLD-S-SA2E-740-U-LAM-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P638423  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2E-740-U-LAM-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/  
Lambertian distribution lens and Visor  
Light Source: (32) 4000K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13339.9 lumens  
Efficiency: N/A  
Efficacy: 85.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B4 - U0 - G2

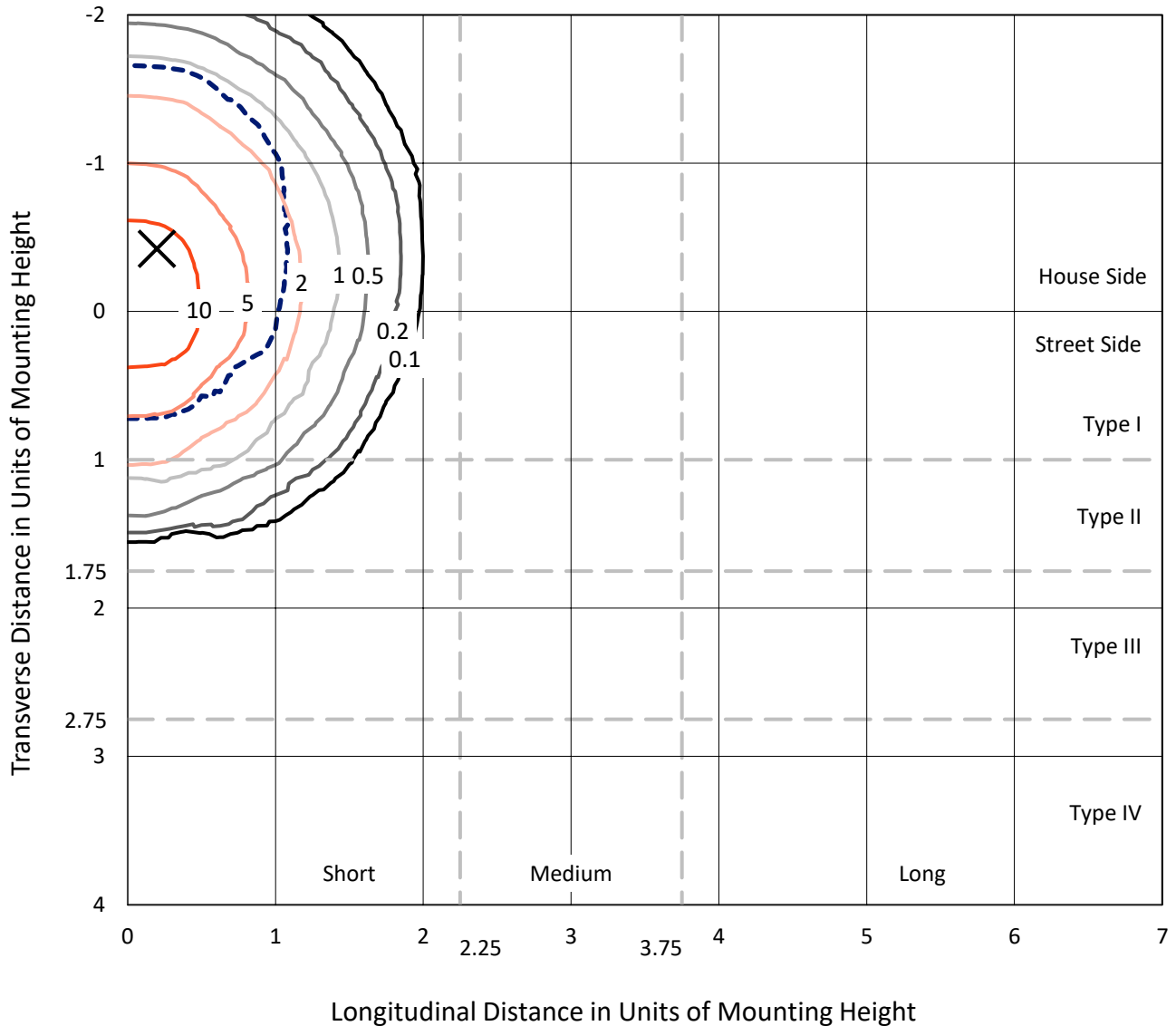
Input Watts (W): 156.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

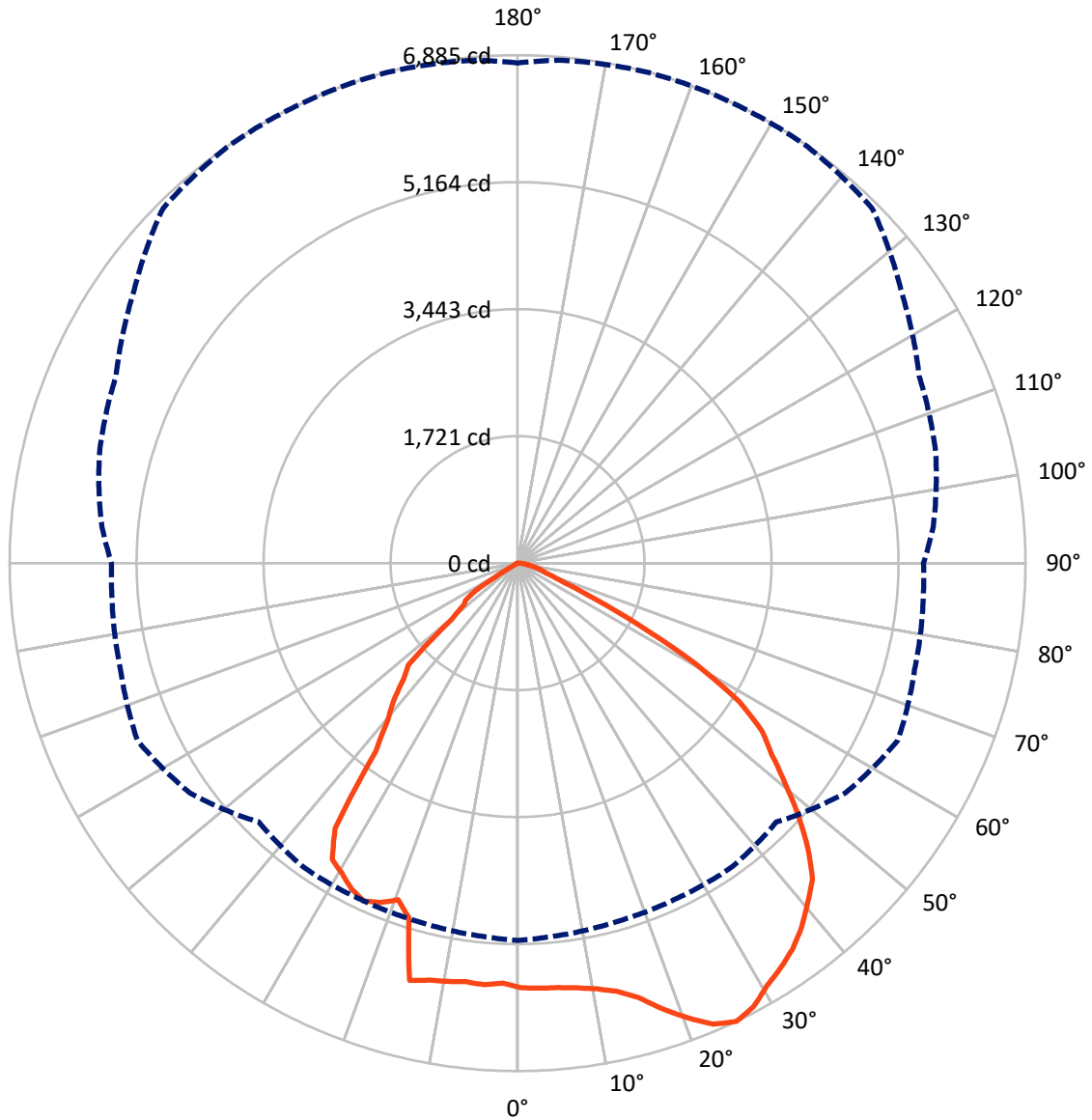
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 14.4 fc  
 Type I - Short - N/A

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CATALOG NUMBER: IFLD-S-SA2E-740-U-LAM-VI

### Luminous Intensity Polar Plot



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

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CATALOG NUMBER: IFLD-S-SA2E-740-U-LAM-VI

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8258.8	0.0	8258.8
	% Fixture	61.9	0.0	61.9
<b>Street Side</b>	Lumens	5081.1	0.0	5081.1
	% Fixture	38.1	0.0	38.1
<b>Total</b>	Lumens	13339.9	0.0	13339.9
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	552.2	4.1
10°-20°	1686.1	12.6
20°-30°	2665.7	20.0
30°-40°	3011.1	22.6
40°-50°	2820.0	21.1
50°-60°	1944.2	14.6
60°-70°	522.3	3.9
70°-80°	108.9	0.8
80°-90°	29.4	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°	13339.9	100.0
0°-180°	13339.9	100.0



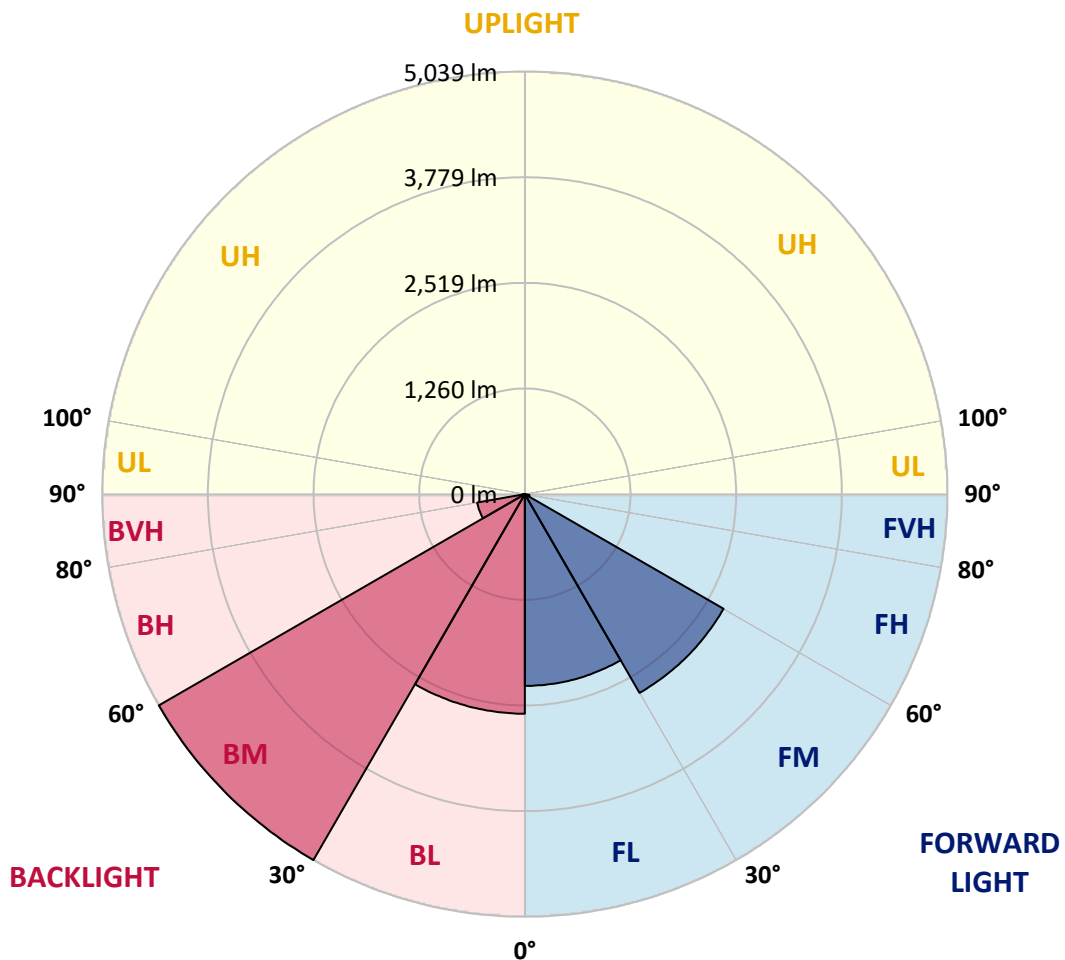
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 CATALOG NUMBER: IFLD-S-SA2E-740-U-LAM-VI

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2286.0	17.1			
FM (30°-60°)	2736.3	20.5			
FH (60°-80°)	54.8	0.4			G0/660
FVH (80°-90°)	4.0	0.0			G0/10
BL (0°-30°)	2618.0	19.6	B4/5000		
BM (30°-60°)	5038.9	37.8	B4/8500		
BH (60°-80°)	576.3	4.3	B2/1000		G2/1000
BVH (80°-90°)	25.5	0.2			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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 CATALOG NUMBER: IFLD-S-SA2E-740-U-LAM-VI

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	5755.9	5755.9	5755.9	5755.9	5755.9	5755.9	5755.9	5755.9	5755.9	5755.9
2.5°	5781.4	5744.2	5708.9	5697.1	5746.1	5799.1	5765.7	5767.7	5755.9	5777.5
5°	5824.5	5773.6	5750.0	5732.4	5740.2	5795.1	5748.1	5765.7	5746.1	5771.6
7.5°	5808.9	5773.6	5750.0	5716.7	5742.2	5806.9	5761.8	5763.8	5754.0	5777.5
10°	5799.1	5773.6	5744.2	5748.1	5777.5	5832.4	5797.1	5816.7	5803.0	5816.7
12.5°	5822.6	5795.1	5779.5	5779.5	5804.9	5867.7	5850.0	5867.7	5861.8	5873.6
15°	5601.1	5626.5	5775.5	5842.2	5893.2	5955.9	5948.1	5965.7	5969.6	5987.3
17.5°	4724.7	4699.2	4687.5	5030.6	5942.2	6136.3	6130.4	6128.4	6108.8	6095.1
20°	4840.4	4830.6	4816.9	4842.4	4944.3	6230.4	6269.6	6028.4	5957.9	5952.0
22.5°	5024.7	5009.0	4958.0	4960.0	4991.3	5416.8	6075.5	5855.9	5832.4	5818.7
25°	5114.9	5083.5	5042.3	5030.6	5040.4	4961.9	5426.6	5687.3	5571.6	5518.7
27.5°	4956.1	4958.0	4924.7	4956.1	4918.8	4565.9	4367.9	5358.0	5354.0	5330.5
30°	4836.5	4830.6	4791.4	4830.6	4573.8	4179.7	4095.4	4997.2	4956.1	4924.7
32.5°	4469.9	4473.8	4587.5	4740.4	4318.9	4007.2	3752.3	4464.0	4854.1	4836.5
35°	3197.5	3205.4	3609.2	4364.0	3932.7	3664.1	3644.5	3858.2	4693.4	4701.2
37.5°	3077.9	3077.9	3068.1	3191.6	3628.8	3524.9	3564.1	3542.6	4299.3	4318.9
40°	2991.7	2974.0	2960.3	2766.2	2523.1	3426.9	3454.3	3356.3	4064.0	4068.0
42.5°	2887.8	2868.2	2872.1	2513.3	2258.5	3183.8	3107.3	2976.0	3672.0	3675.9
45°	2697.6	2730.9	2754.5	2199.6	2180.0	2274.1	2866.2	2783.9	3407.3	3479.8
47.5°	1372.3	1401.7	2150.6	2023.2	2068.3	2021.2	2421.2	2423.1	2834.8	3076.0
50°	1244.9	1237.1	1239.0	1180.2	1909.5	1635.0	1750.7	2221.2	2270.2	2615.3
52.5°	1160.6	1158.6	1039.0	923.4	1199.8	1439.0	1270.4	1607.6	1688.0	2215.3
55°	858.7	921.4	819.5	868.5	750.9	1152.8	1146.9	1450.7	1478.2	1776.2
57.5°	7.8	9.8	23.5	660.7	519.5	576.4	792.0	990.0	1039.0	1384.1
60°	2.0	3.9	9.8	19.6	337.2	354.8	529.3	572.5	645.0	825.4
62.5°	0.0	0.0	3.9	9.8	17.6	145.1	168.6	184.3	284.3	421.5
65°	0.0	0.0	2.0	5.9	9.8	23.5	41.2	86.3	123.5	152.9
67.5°	0.0	0.0	2.0	3.9	7.8	11.8	23.5	33.3	52.9	90.2
70°	0.0	0.0	2.0	3.9	5.9	9.8	15.7	23.5	31.4	45.1
72.5°	0.0	0.0	2.0	3.9	3.9	11.8	11.8	17.6	23.5	29.4
75°	0.0	0.0	2.0	2.0	3.9	7.8	11.8	13.7	15.7	23.5
77.5°	0.0	0.0	2.0	3.9	5.9	7.8	9.8	15.7	13.7	13.7
80°	0.0	0.0	2.0	5.9	5.9	9.8	11.8	15.7	9.8	9.8
82.5°	0.0	0.0	2.0	7.8	5.9	19.6	19.6	21.6	7.8	7.8
85°	0.0	0.0	5.9	3.9	11.8	19.6	17.6	11.8	9.8	5.9
87.5°	0.0	0.0	2.0	2.0	3.9	5.9	13.7	11.8	3.9	3.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P638423

CATALOG NUMBER: IFLD-S-SA2E-740-U-LAM-VI

**CANDELA DISTRIBUTION (continued):**

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
5755.9	0°	5755.9	5755.9	5755.9	5755.9	5755.9	5755.9	5755.9	5755.9	5755.9
5720.6	2.5°	5799.1	5773.6	5826.5	5820.6	5795.1	5783.4	5769.7	5757.9	5671.6
5724.6	5°	5801.0	5761.8	5826.5	5814.7	5810.8	5791.2	5779.5	5797.1	5718.7
5740.2	7.5°	5801.0	5761.8	5832.4	5836.3	5830.4	5814.7	5812.8	5824.5	5759.8
5767.7	10°	5840.2	5824.5	5883.4	5889.2	5881.4	5877.5	5867.7	5859.8	5791.2
5861.8	12.5°	5922.6	5891.2	5957.9	5975.5	5969.6	5979.4	5955.9	5967.7	5897.1
5957.9	15°	6022.6	6024.5	6075.5	6114.7	6110.8	6142.1	6106.9	6138.2	6087.2
6067.6	17.5°	6175.5	6197.0	6269.6	6328.4	6349.9	6373.5	6349.9	6359.8	6287.2
5946.1	20°	6014.7	6095.1	6444.1	6551.9	6597.0	6618.5	6579.3	6591.1	6518.5
5797.1	22.5°	5869.6	5973.5	6283.3	6620.5	6759.7	6802.8	6789.1	6787.1	6759.7
5503.0	25°	5655.9	5865.7	6004.9	6361.7	6798.9	6877.3	6885.2	6883.2	6842.0
5322.7	27.5°	5393.2	5440.3	5801.0	6018.6	6524.4	6822.4	6810.7	6753.8	6698.9
4948.2	30°	5058.0	5271.7	5434.4	5781.4	6169.6	6653.8	6653.8	6610.7	6553.8
4814.9	32.5°	4887.4	5163.9	5314.8	5440.3	5771.6	6465.6	6544.0	6498.9	6453.9
4711.0	35°	4797.3	4838.4	5191.3	5305.0	5585.4	6102.9	6420.5	6375.4	6342.1
4434.6	37.5°	4599.3	4695.3	4860.0	5163.9	5250.1	5806.9	6255.8	6232.3	6193.1
4075.8	40°	4158.1	4415.0	4667.9	4956.1	5046.2	5426.6	6055.9	6065.7	6012.7
3693.5	42.5°	3897.4	4071.9	4467.9	4662.0	4905.1	5181.5	5861.8	5877.5	5840.2
3499.4	45°	3591.6	3785.7	4064.0	4416.9	4748.2	4844.3	5518.7	5683.4	5652.0
3113.2	47.5°	3311.2	3468.1	3809.2	4166.0	4532.6	4518.9	5124.7	5434.4	5391.3
2817.2	50°	2913.3	3187.7	3348.5	3675.9	4222.8	4260.1	4705.1	5142.3	5107.0
2393.7	52.5°	2456.5	2801.5	3109.3	3409.2	3909.2	3997.4	4315.0	4844.3	4820.8
1829.1	55°	2146.7	2397.6	2744.7	2985.8	3528.8	3764.1	4022.9	4560.0	4548.3
1503.7	57.5°	1527.2	2011.4	2297.7	2634.9	2921.1	3346.5	3538.6	3981.7	3871.9
833.2	60°	1035.1	1262.5	1611.5	1974.2	2166.3	2591.7	2770.1	3125.0	3095.6
498.0	62.5°	547.0	756.7	1005.7	1188.0	1327.2	1740.9	1815.4	2197.7	2187.9
200.0	65°	241.1	319.6	545.0	639.1	782.2	974.4	1039.0	1176.3	1143.0
98.0	67.5°	125.5	190.2	307.8	378.4	476.4	548.9	601.9	645.0	672.4
64.7	70°	76.5	139.2	190.2	262.7	327.4	386.2	427.4	486.2	521.5
33.3	72.5°	56.9	88.2	131.4	201.9	237.2	305.8	347.0	390.1	421.5
27.4	75°	31.4	58.8	105.9	158.8	190.2	249.0	286.2	315.6	325.4
15.7	77.5°	19.6	45.1	88.2	123.5	149.0	201.9	192.1	219.6	243.1
11.8	80°	13.7	33.3	68.6	101.9	103.9	129.4	152.9	176.4	192.1
7.8	82.5°	9.8	27.4	51.0	78.4	68.6	100.0	119.6	137.2	100.0
5.9	85°	7.8	19.6	25.5	47.1	39.2	70.6	60.8	58.8	39.2
3.9	87.5°	5.9	9.8	17.6	21.6	15.7	15.7	19.6	23.5	19.6
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
5755.9  
5612.8  
5652.0  
5685.4  
5734.4  
5834.3  
6002.9  
6224.5  
6467.6  
6671.5  
6779.3  
6655.8  
6532.3  
6416.6  
6295.1  
6153.9  
6001.0  
5836.3  
5655.9  
5422.6  
5112.9  
4836.5  
4562.0  
3860.2  
3097.5  
2189.8  
1129.2  
672.4  
523.4  
427.4  
319.6  
247.0  
194.1  
72.5  
39.2  
19.6  
0.0

(END OF REPORT)