

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: P638392

Luminaire Tested: **IFLD-S-SA2C-735-U-LAM-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638392
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2C-735-U-LAM-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens and Visor
Light Source: (32) 3500K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10332.3 lumens
Efficiency: N/A
Efficacy: 95.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G1

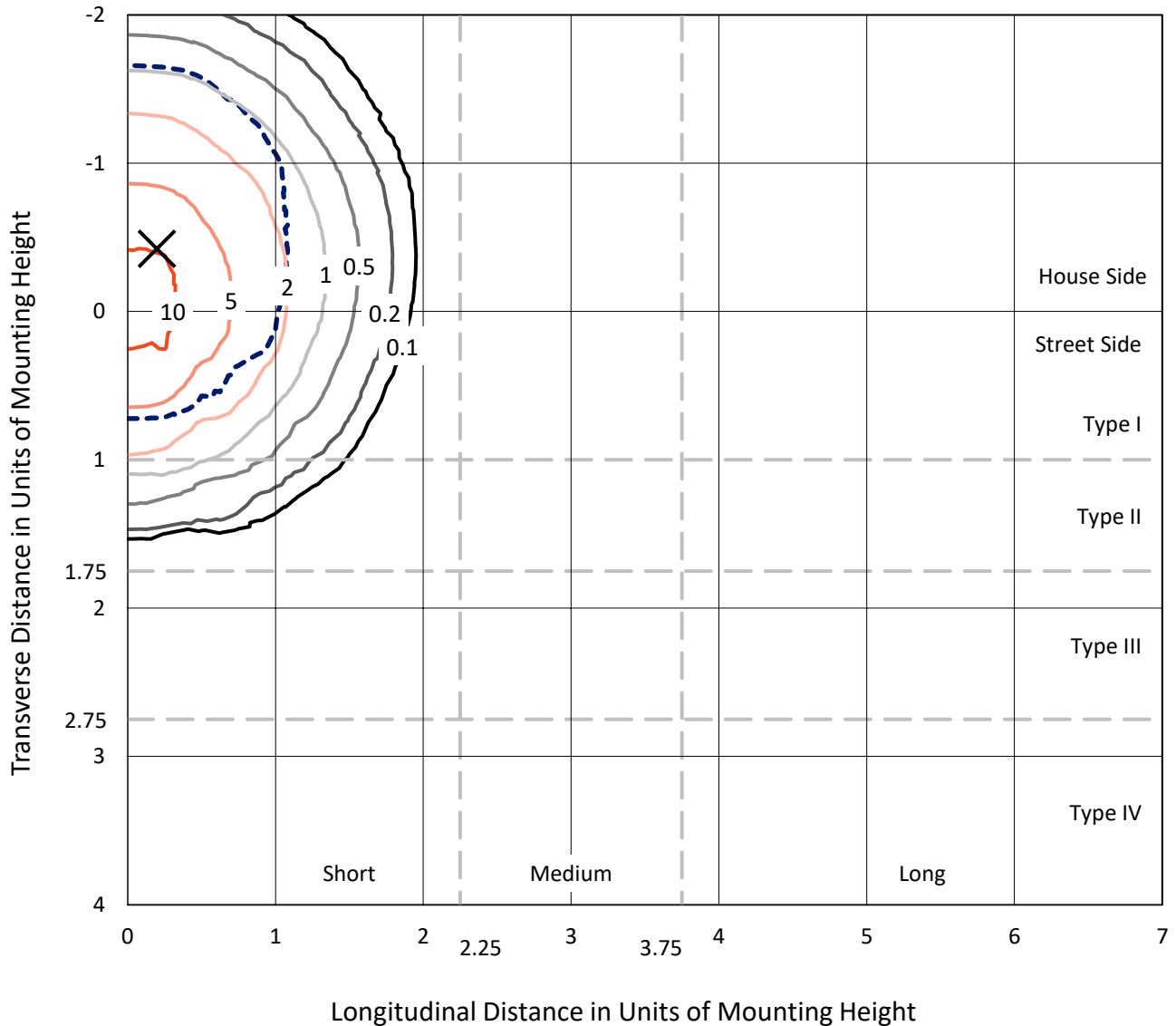
Input Watts (W): 108.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P638392
 CATALOG NUMBER: IFLD-S-SA2C-735-U-LAM-VI

Iso-Footcandle Lines of Horizontal Illumination

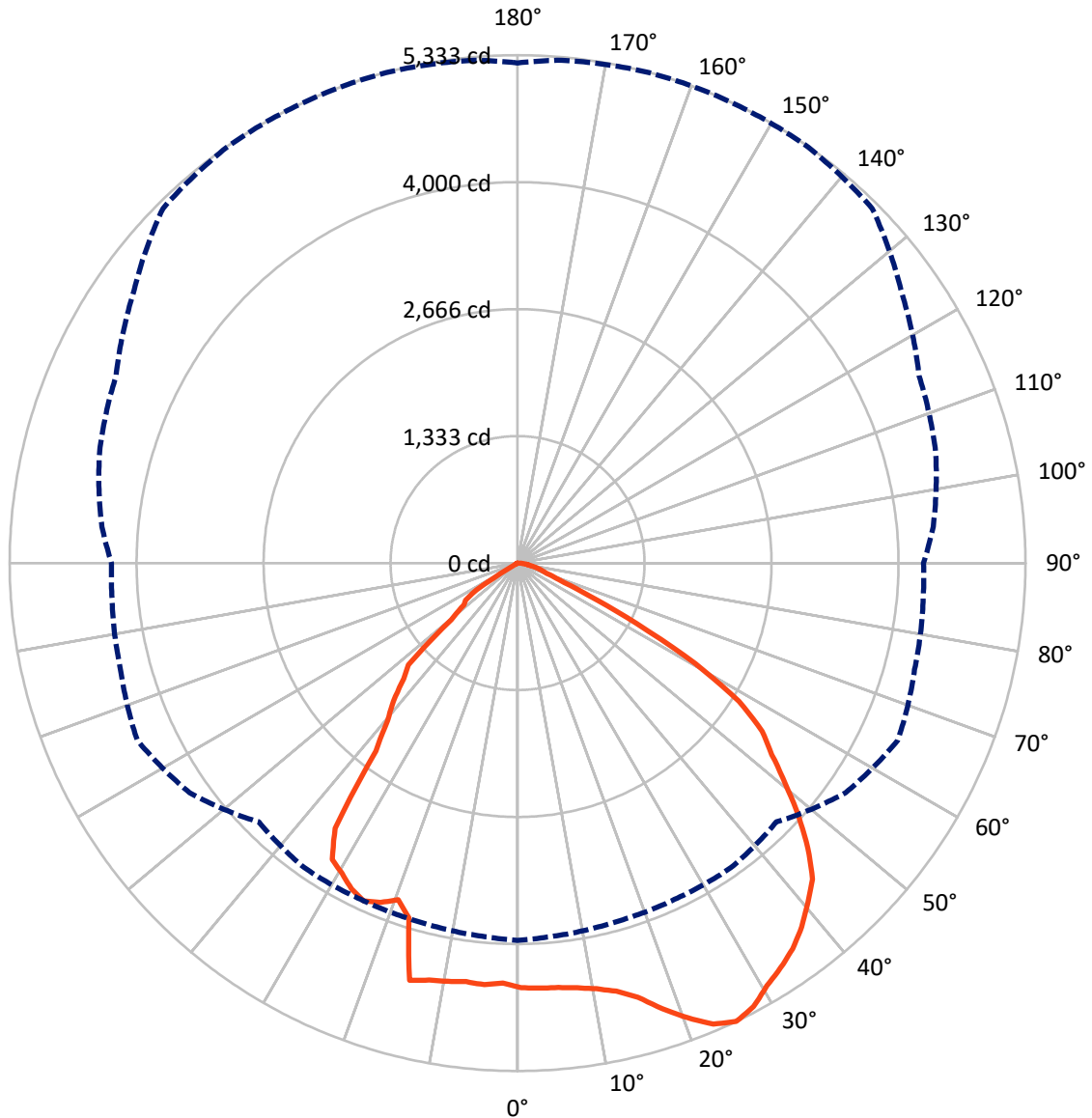
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 11.1 fc
 Type I - Short - N/A

REPORT NUMBER: P638392
CATALOG NUMBER: IFLD-S-SA2C-735-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-SA2C-735-U-LAM-VI

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6396.7	0.0	6396.7
	% Fixture	61.9	0.0	61.9
Street Side	Lumens	3935.5	0.0	3935.5
	% Fixture	38.1	0.0	38.1
Total	Lumens	10332.3	0.0	10332.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	427.7	4.1
10°-20°	1306.0	12.6
20°-30°	2064.7	20.0
30°-40°	2332.2	22.6
40°-50°	2184.2	21.1
50°-60°	1505.8	14.6
60°-70°	404.6	3.9
70°-80°	84.3	0.8
80°-90°	22.8	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°	10332.3	100.0
0°-180°	10332.3	100.0



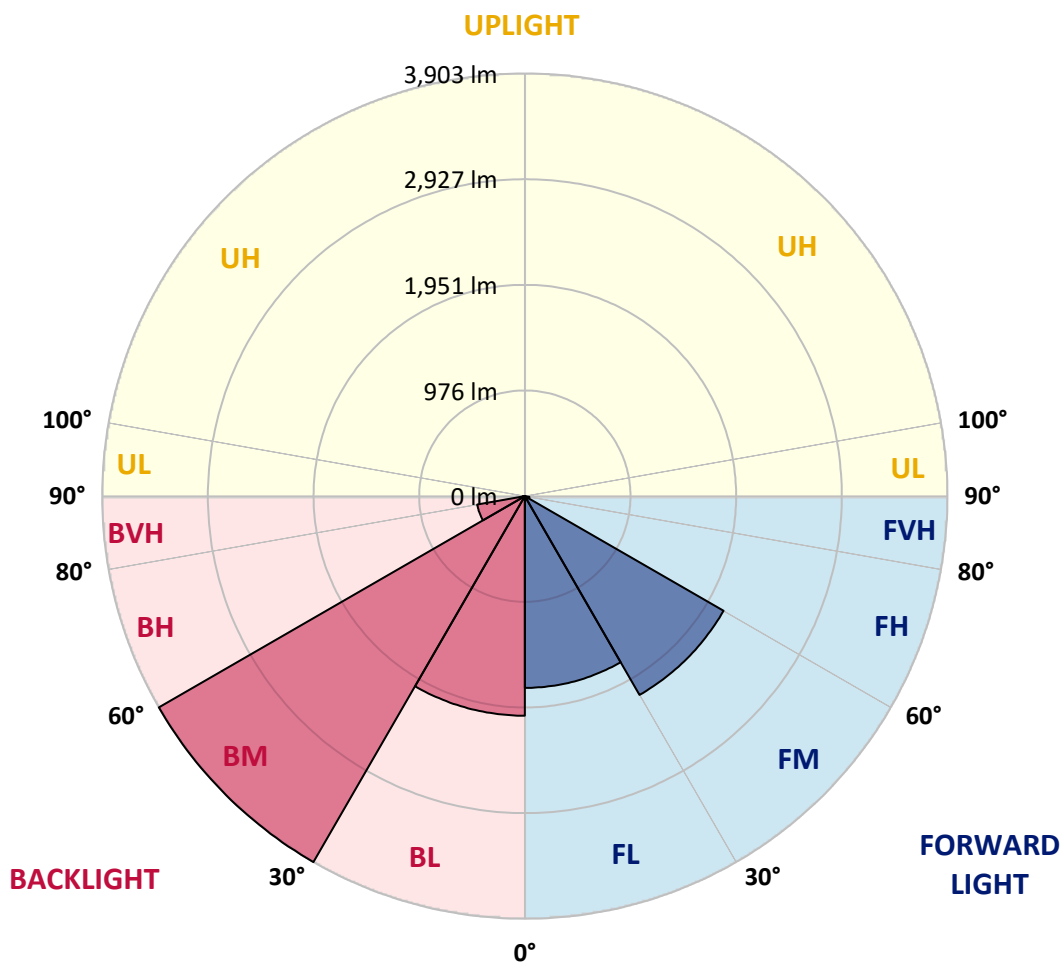
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1770.6	17.1			
FM (30°-60°)	2119.4	20.5			
FH (60°-80°)	42.5	0.4			G0/660
FVH (80°-90°)	3.1	0.0			G0/10
BL (0°-30°)	2027.7	19.6	B3/2500		
BM (30°-60°)	3902.9	37.8	B3/5000		
BH (60°-80°)	446.4	4.3	B1/500		G1/500
BVH (80°-90°)	19.7	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-G1

Type I Short





REPORT NUMBER: P638392
 CATALOG NUMBER: IFLD-S-SA2C-735-U-LAM-VI

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	4458.2	4458.2	4458.2	4458.2	4458.2	4458.2	4458.2	4458.2	4458.2	4458.2
2.5°	4477.9	4449.1	4421.8	4412.6	4450.6	4491.6	4465.8	4467.3	4458.2	4474.9
5°	4511.3	4471.9	4453.6	4440.0	4446.0	4488.6	4452.1	4465.8	4450.6	4470.3
7.5°	4499.2	4471.9	4453.6	4427.8	4447.6	4497.7	4462.7	4464.3	4456.7	4474.9
10°	4491.6	4471.9	4449.1	4452.1	4474.9	4517.4	4490.1	4505.3	4494.6	4505.3
12.5°	4509.8	4488.6	4476.4	4476.4	4496.2	4544.7	4531.1	4544.7	4540.2	4549.3
15°	4338.2	4358.0	4473.4	4525.0	4564.5	4613.1	4607.0	4620.7	4623.7	4637.4
17.5°	3659.5	3639.7	3630.6	3896.4	4602.4	4752.8	4748.2	4746.7	4731.5	4720.9
20°	3749.1	3741.5	3730.9	3750.6	3829.6	4825.7	4856.0	4669.3	4614.6	4610.0
22.5°	3891.8	3879.7	3840.2	3841.7	3866.0	4195.5	4705.7	4535.6	4517.4	4506.8
25°	3961.7	3937.4	3905.5	3896.4	3904.0	3843.2	4203.1	4405.0	4315.5	4274.5
27.5°	3838.7	3840.2	3814.4	3838.7	3809.8	3536.5	3383.1	4149.9	4146.9	4128.7
30°	3746.0	3741.5	3711.1	3741.5	3542.6	3237.4	3172.1	3870.6	3838.7	3814.4
32.5°	3462.1	3465.1	3553.2	3671.6	3345.2	3103.7	2906.3	3457.5	3759.7	3746.0
35°	2476.6	2482.7	2795.5	3380.1	3046.0	2838.0	2822.8	2988.3	3635.2	3641.3
37.5°	2384.0	2384.0	2376.4	2472.1	2810.7	2730.2	2760.6	2743.9	3330.0	3345.2
40°	2317.2	2303.5	2292.9	2142.5	1954.3	2654.3	2675.5	2599.6	3147.8	3150.8
42.5°	2236.7	2221.5	2224.5	1946.7	1749.3	2466.0	2406.8	2305.0	2844.1	2847.1
45°	2089.4	2115.2	2133.4	1703.7	1688.5	1761.4	2220.0	2156.2	2639.1	2695.3
47.5°	1062.9	1085.7	1665.7	1567.0	1602.0	1565.5	1875.3	1876.8	2195.7	2382.5
50°	964.2	958.1	959.7	914.1	1479.0	1266.4	1356.0	1720.4	1758.4	2025.6
52.5°	898.9	897.4	804.8	715.2	929.3	1114.5	984.0	1245.1	1307.4	1715.9
55°	665.1	713.7	634.7	672.7	581.6	892.9	888.3	1123.7	1144.9	1375.7
57.5°	6.1	7.6	18.2	511.7	402.4	446.4	613.5	766.8	804.8	1072.0
60°	1.5	3.0	7.6	15.2	261.2	274.8	410.0	443.4	499.6	639.3
62.5°	0.0	0.0	3.0	7.6	13.7	112.4	130.6	142.7	220.2	326.5
65°	0.0	0.0	1.5	4.6	7.6	18.2	31.9	66.8	95.7	118.4
67.5°	0.0	0.0	1.5	3.0	6.1	9.1	18.2	25.8	41.0	69.8
70°	0.0	0.0	1.5	3.0	4.6	7.6	12.1	18.2	24.3	34.9
72.5°	0.0	0.0	1.5	3.0	3.0	9.1	9.1	13.7	18.2	22.8
75°	0.0	0.0	1.5	1.5	3.0	6.1	9.1	10.6	12.1	18.2
77.5°	0.0	0.0	1.5	3.0	4.6	6.1	7.6	12.1	10.6	10.6
80°	0.0	0.0	1.5	4.6	4.6	7.6	9.1	12.1	7.6	7.6
82.5°	0.0	0.0	1.5	6.1	4.6	15.2	15.2	16.7	6.1	6.1
85°	0.0	0.0	4.6	3.0	9.1	15.2	13.7	9.1	7.6	4.6
87.5°	0.0	0.0	1.5	1.5	3.0	4.6	10.6	9.1	3.0	3.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P638392

CATALOG NUMBER: IFLD-S-SA2C-735-U-LAM-VI

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
4458.2	0°	4458.2	4458.2	4458.2	4458.2	4458.2	4458.2	4458.2	4458.2	4458.2
4430.9	2.5°	4491.6	4471.9	4512.9	4508.3	4488.6	4479.5	4468.8	4459.7	4392.9
4433.9	5°	4493.1	4462.7	4512.9	4503.7	4500.7	4485.5	4476.4	4490.1	4429.3
4446.0	7.5°	4493.1	4462.7	4517.4	4520.5	4515.9	4503.7	4502.2	4511.3	4461.2
4467.3	10°	4523.5	4511.3	4556.9	4561.4	4555.4	4552.3	4544.7	4538.7	4485.5
4540.2	12.5°	4587.3	4563.0	4614.6	4628.3	4623.7	4631.3	4613.1	4622.2	4567.5
4614.6	15°	4664.7	4666.2	4705.7	4736.1	4733.0	4757.3	4730.0	4754.3	4714.8
4699.6	17.5°	4783.1	4799.8	4856.0	4901.6	4918.3	4936.5	4918.3	4925.9	4869.7
4605.5	20°	4658.6	4720.9	4991.2	5074.7	5109.6	5126.3	5095.9	5105.1	5048.9
4490.1	22.5°	4546.3	4626.7	4866.7	5127.8	5235.6	5269.1	5258.4	5256.9	5235.6
4262.3	25°	4380.8	4543.2	4651.0	4927.4	5266.0	5326.8	5332.8	5331.3	5299.4
4122.6	27.5°	4177.3	4213.7	4493.1	4661.7	5053.4	5284.2	5275.1	5231.1	5188.6
3832.6	30°	3917.6	4083.1	4209.2	4477.9	4778.6	5153.6	5153.6	5120.2	5076.2
3729.3	32.5°	3785.5	3999.6	4116.5	4213.7	4470.3	5007.9	5068.6	5033.7	4998.8
3648.9	35°	3715.7	3747.6	4020.9	4108.9	4326.1	4727.0	4973.0	4938.0	4912.2
3434.8	37.5°	3562.3	3636.7	3764.3	3999.6	4066.4	4497.7	4845.4	4827.2	4796.8
3156.9	40°	3220.7	3419.6	3615.4	3838.7	3908.5	4203.1	4690.5	4698.1	4657.1
2860.8	42.5°	3018.7	3153.8	3460.6	3610.9	3799.2	4013.3	4540.2	4552.3	4523.5
2710.4	45°	2781.8	2932.1	3147.8	3421.1	3677.7	3752.1	4274.5	4402.0	4377.7
2411.3	47.5°	2564.7	2686.2	2950.4	3226.7	3510.7	3500.0	3969.3	4209.2	4175.8
2182.0	50°	2256.4	2469.0	2593.5	2847.1	3270.8	3299.6	3644.3	3982.9	3955.6
1854.0	52.5°	1902.6	2169.9	2408.3	2640.6	3027.8	3096.1	3342.1	3752.1	3733.9
1416.7	55°	1662.7	1857.1	2125.8	2312.6	2733.2	2915.4	3115.9	3531.9	3522.8
1164.7	57.5°	1182.9	1557.9	1779.6	2040.8	2262.5	2592.0	2740.8	3084.0	2999.0
645.3	60°	801.7	977.9	1248.2	1529.1	1677.9	2007.4	2145.6	2420.4	2397.6
385.7	62.5°	423.6	586.1	779.0	920.2	1028.0	1348.4	1406.1	1702.2	1694.6
154.9	65°	186.8	247.5	422.1	495.0	605.9	754.7	804.8	911.1	885.3
75.9	67.5°	97.2	147.3	238.4	293.1	369.0	425.2	466.2	499.6	520.8
50.1	70°	59.2	107.8	147.3	203.5	253.6	299.1	331.0	376.6	403.9
25.8	72.5°	44.0	68.3	101.7	156.4	183.7	236.9	268.8	302.2	326.5
21.3	75°	24.3	45.6	82.0	123.0	147.3	192.8	221.7	244.5	252.1
12.1	77.5°	15.2	34.9	68.3	95.7	115.4	156.4	148.8	170.1	188.3
9.1	80°	10.6	25.8	53.1	79.0	80.5	100.2	118.4	136.7	148.8
6.1	82.5°	7.6	21.3	39.5	60.7	53.1	77.4	92.6	106.3	77.4
4.6	85°	6.1	15.2	19.7	36.4	30.4	54.7	47.1	45.6	30.4
3.0	87.5°	4.6	7.6	13.7	16.7	12.1	12.1	15.2	18.2	15.2
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
4458.2
4347.3
4377.7
4403.5
4441.5
4518.9
4649.5
4821.1
5009.4
5167.3
5250.8
5155.2
5059.5
4969.9
4875.8
4766.4
4648.0
4520.5
4380.8
4200.1
3960.1
3746.0
3533.5
2989.8
2399.2
1696.1
874.6
520.8
405.4
331.0
247.5
191.3
150.3
56.2
30.4
15.2
0.0

(END OF REPORT)