

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: P636944

Luminaire Tested: **IFLD-S-SA2E-940-U-LAM-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636944
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2E-940-U-LAM-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens and Visor
Light Source: (32) 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9639.4 lumens
Efficiency: N/A
Efficacy: 61.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G1

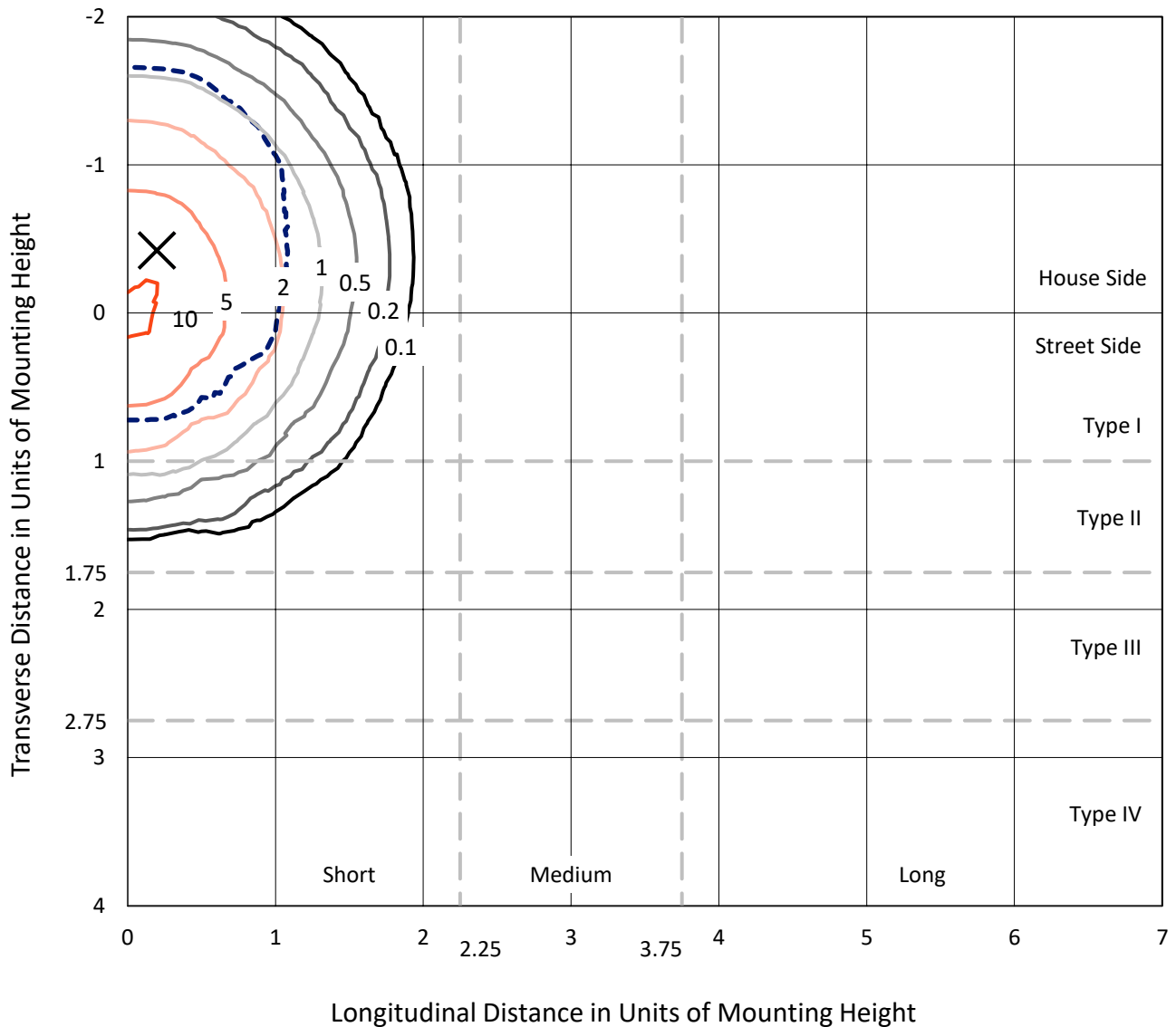
Input Watts (W): 156.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P636944
 CATALOG NUMBER: IFLD-S-SA2E-940-U-LAM-VI

Iso-Footcandle Lines of Horizontal Illumination

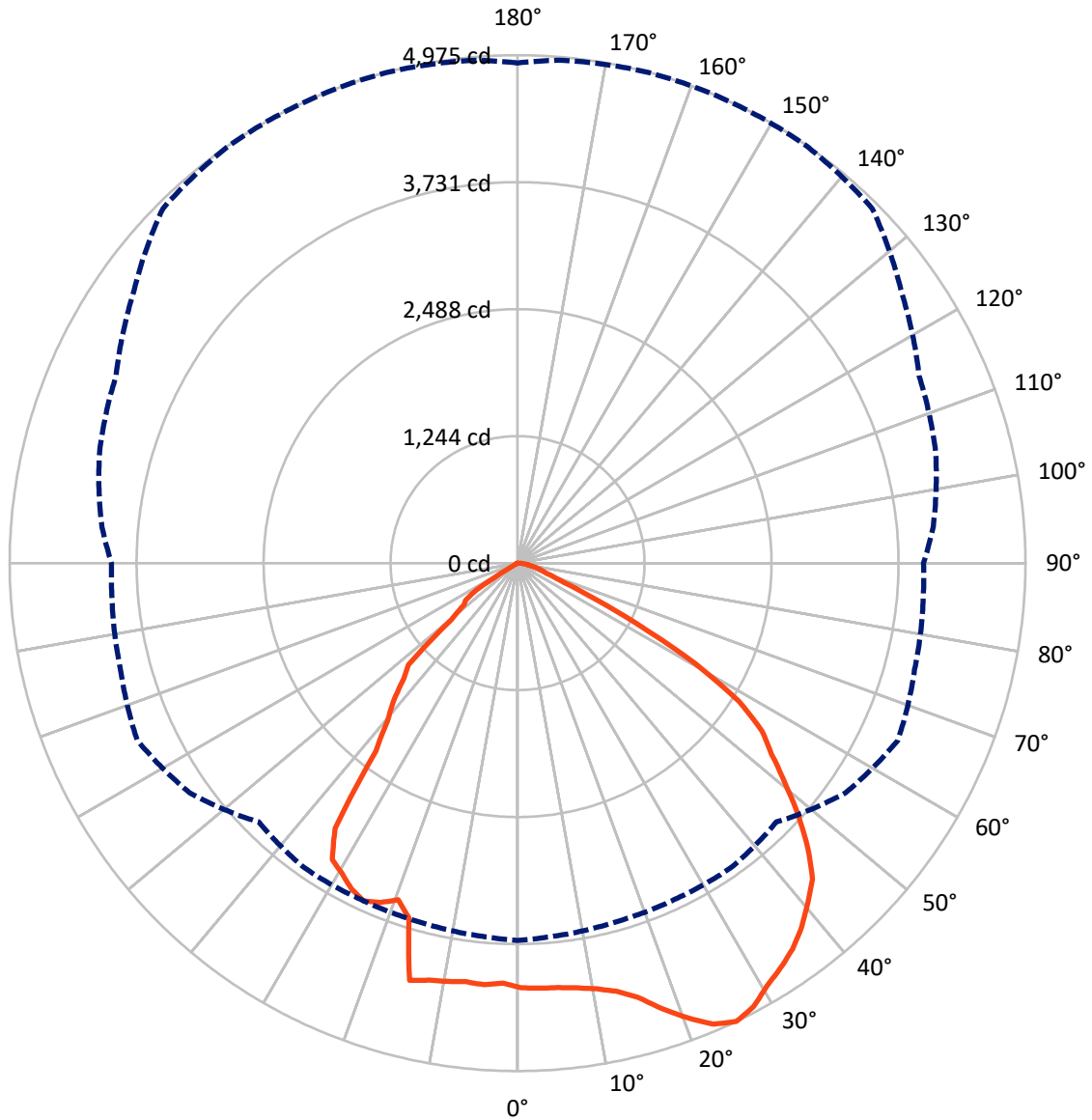
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 10.4 fc
 Type I - Short - N/A

REPORT NUMBER: P636944
CATALOG NUMBER: IFLD-S-SA2E-940-U-LAM-VI

Luminous Intensity Polar Plot



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

REPORT NUMBER: P636944

CATALOG NUMBER: IFLD-S-SA2E-940-U-LAM-VI

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5967.8	0.0	5967.8
	% Fixture	61.9	0.0	61.9
Street Side	Lumens	3671.6	0.0	3671.6
	% Fixture	38.1	0.0	38.1
Total	Lumens	9639.4	0.0	9639.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	399.0	4.1
10°-20°	1218.4	12.6
20°-30°	1926.2	20.0
30°-40°	2175.8	22.6
40°-50°	2037.7	21.1
50°-60°	1404.9	14.6
60°-70°	377.4	3.9
70°-80°	78.6	0.8
80°-90°	21.3	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°	9639.4	100.0
0°-180°	9639.4	100.0



REPORT NUMBER: P636944

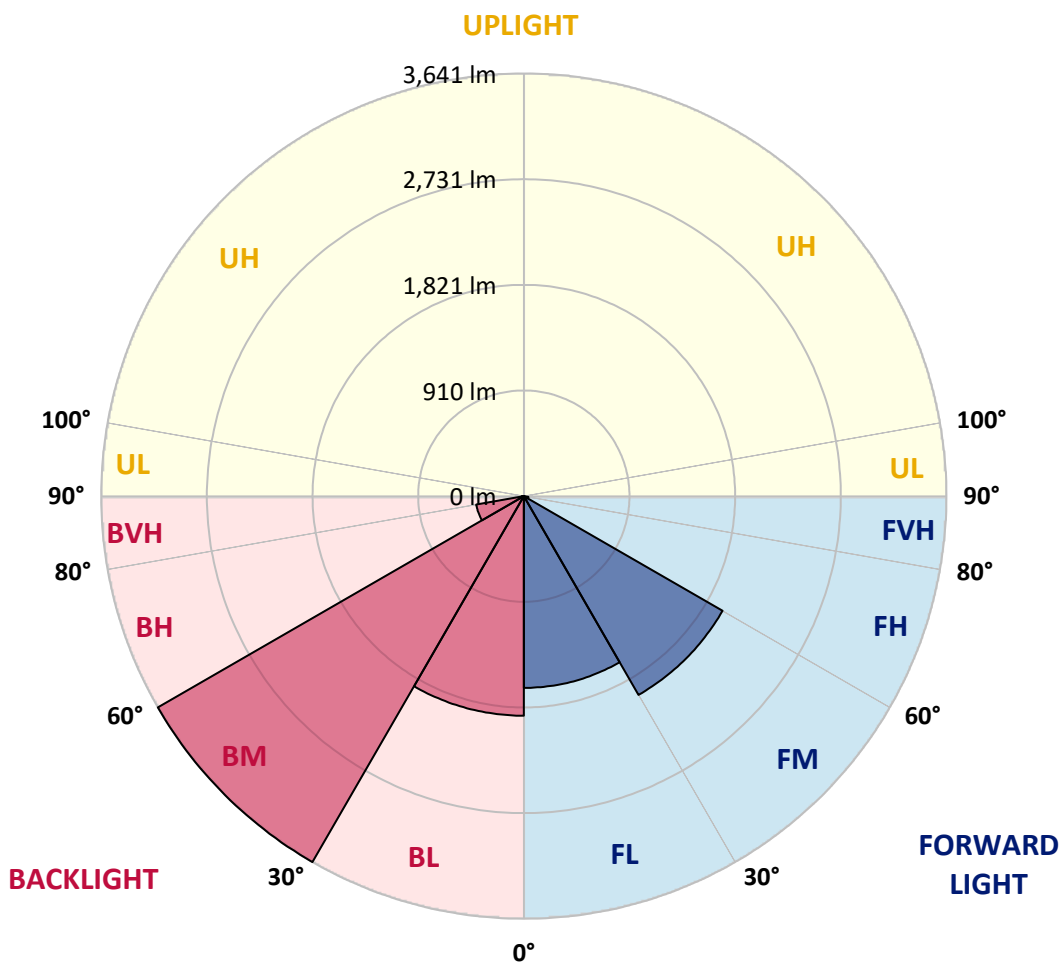
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1651.9	17.1			
FM (30°-60°)	1977.3	20.5			
FH (60°-80°)	39.6	0.4			G0/660
FVH (80°-90°)	2.9	0.0			G0/10
BL (0°-30°)	1891.8	19.6	B3/2500		
BM (30°-60°)	3641.1	37.8	B3/5000		
BH (60°-80°)	416.5	4.3	B1/500		G1/500
BVH (80°-90°)	18.4	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: P636944
 CATALOG NUMBER: IFLD-S-SA2E-940-U-LAM-VI

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	4159.2	4159.2	4159.2	4159.2	4159.2	4159.2	4159.2	4159.2	4159.2	4159.2
2.5°	4177.6	4150.7	4125.2	4116.7	4152.1	4190.4	4166.3	4167.7	4159.2	4174.8
5°	4208.8	4172.0	4155.0	4142.2	4147.9	4187.6	4153.6	4166.3	4152.1	4170.6
7.5°	4197.5	4172.0	4155.0	4130.9	4149.3	4196.1	4163.5	4164.9	4157.8	4174.8
10°	4190.4	4172.0	4150.7	4153.6	4174.8	4214.5	4189.0	4203.1	4193.2	4203.1
12.5°	4207.4	4187.6	4176.2	4176.2	4194.6	4240.0	4227.2	4240.0	4235.7	4244.2
15°	4047.3	4065.7	4173.4	4221.6	4258.4	4303.7	4298.1	4310.8	4313.6	4326.4
17.5°	3414.1	3395.7	3387.2	3635.1	4293.8	4434.1	4429.8	4428.4	4414.2	4404.3
20°	3497.7	3490.6	3480.7	3499.1	3572.7	4502.1	4530.4	4356.1	4305.1	4300.9
22.5°	3630.8	3619.5	3582.7	3584.1	3606.7	3914.2	4390.1	4231.5	4214.5	4204.6
25°	3696.0	3673.3	3643.6	3635.1	3642.2	3585.5	3921.2	4109.7	4026.1	3987.8
27.5°	3581.2	3582.7	3558.6	3581.2	3554.3	3299.3	3156.3	3871.7	3868.8	3851.8
30°	3494.8	3490.6	3462.2	3490.6	3305.0	3020.3	2959.3	3611.0	3581.2	3558.6
32.5°	3229.9	3232.8	3314.9	3425.4	3120.8	2895.6	2711.4	3225.7	3507.6	3494.8
35°	2310.5	2316.2	2608.0	3153.4	2841.8	2647.7	2633.5	2787.9	3391.4	3397.1
37.5°	2224.1	2224.1	2217.0	2306.3	2622.2	2547.1	2575.4	2559.9	3106.7	3120.8
40°	2161.8	2149.0	2139.1	1998.9	1823.2	2476.3	2496.1	2425.3	2936.7	2939.5
42.5°	2086.7	2072.5	2075.4	1816.1	1632.0	2300.6	2245.4	2150.4	2653.4	2656.2
45°	1949.3	1973.4	1990.4	1589.5	1575.3	1643.3	2071.1	2011.6	2462.1	2514.5
47.5°	991.6	1012.9	1554.0	1462.0	1494.5	1460.5	1749.5	1751.0	2048.5	2222.7
50°	899.6	893.9	895.3	852.8	1379.8	1181.5	1265.1	1605.0	1640.5	1889.8
52.5°	838.6	837.2	750.8	667.2	867.0	1039.8	918.0	1161.6	1219.7	1600.8
55°	620.5	665.8	592.2	627.6	542.6	833.0	828.7	1048.3	1068.1	1283.5
57.5°	5.7	7.1	17.0	477.4	375.4	416.5	572.3	715.4	750.8	1000.1
60°	1.4	2.8	7.1	14.2	243.7	256.4	382.5	413.7	466.1	596.4
62.5°	0.0	0.0	2.8	7.1	12.7	104.8	121.8	133.2	205.4	304.6
65°	0.0	0.0	1.4	4.2	7.1	17.0	29.7	62.3	89.2	110.5
67.5°	0.0	0.0	1.4	2.8	5.7	8.5	17.0	24.1	38.2	65.2
70°	0.0	0.0	1.4	2.8	4.2	7.1	11.3	17.0	22.7	32.6
72.5°	0.0	0.0	1.4	2.8	2.8	8.5	8.5	12.7	17.0	21.2
75°	0.0	0.0	1.4	1.4	2.8	5.7	8.5	9.9	11.3	17.0
77.5°	0.0	0.0	1.4	2.8	4.2	5.7	7.1	11.3	9.9	9.9
80°	0.0	0.0	1.4	4.2	4.2	7.1	8.5	11.3	7.1	7.1
82.5°	0.0	0.0	1.4	5.7	4.2	14.2	14.2	15.6	5.7	5.7
85°	0.0	0.0	4.2	2.8	8.5	14.2	12.7	8.5	7.1	4.2
87.5°	0.0	0.0	1.4	1.4	2.8	4.2	9.9	8.5	2.8	2.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P636944

CATALOG NUMBER: IFLD-S-SA2E-940-U-LAM-VI

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
4159.2	0°	4159.2	4159.2	4159.2	4159.2	4159.2	4159.2	4159.2	4159.2	4159.2
4133.7	2.5°	4190.4	4172.0	4210.2	4206.0	4187.6	4179.1	4169.1	4160.6	4098.3
4136.6	5°	4191.8	4163.5	4210.2	4201.7	4198.9	4184.7	4176.2	4189.0	4132.3
4147.9	7.5°	4191.8	4163.5	4214.5	4217.3	4213.1	4201.7	4200.3	4208.8	4162.1
4167.7	10°	4220.1	4208.8	4251.3	4255.6	4249.9	4247.1	4240.0	4234.3	4184.7
4235.7	12.5°	4279.6	4257.0	4305.1	4317.9	4313.6	4320.7	4303.7	4312.2	4261.2
4305.1	15°	4351.9	4353.3	4390.1	4418.5	4415.6	4438.3	4412.8	4435.5	4398.6
4384.5	17.5°	4462.4	4478.0	4530.4	4572.9	4588.5	4605.5	4588.5	4595.6	4543.1
4296.6	20°	4346.2	4404.3	4656.5	4734.4	4767.0	4782.6	4754.2	4762.7	4710.3
4189.0	22.5°	4241.4	4316.5	4540.3	4784.0	4884.5	4915.7	4905.8	4904.4	4884.5
3976.5	25°	4087.0	4238.6	4339.1	4597.0	4912.9	4969.5	4975.2	4973.8	4944.0
3846.2	27.5°	3897.2	3931.2	4191.8	4349.1	4714.6	4929.9	4921.4	4880.3	4840.6
3575.6	30°	3654.9	3809.3	3926.9	4177.6	4458.1	4808.1	4808.1	4776.9	4735.8
3479.2	32.5°	3531.7	3731.4	3840.5	3931.2	4170.6	4672.1	4728.7	4696.1	4663.6
3404.2	35°	3466.5	3496.2	3751.2	3833.4	4036.0	4410.0	4639.5	4606.9	4582.8
3204.4	37.5°	3323.4	3392.8	3511.8	3731.4	3793.7	4196.1	4520.5	4503.5	4475.1
2945.2	40°	3004.7	3190.3	3373.0	3581.2	3646.4	3921.2	4376.0	4383.1	4344.8
2668.9	42.5°	2816.3	2942.3	3228.5	3368.8	3544.4	3744.2	4235.7	4247.1	4220.1
2528.7	45°	2595.3	2735.5	2936.7	3191.7	3431.1	3500.5	3987.8	4106.8	4084.2
2249.6	47.5°	2392.7	2506.0	2752.5	3010.3	3275.3	3265.3	3703.1	3926.9	3895.7
2035.7	50°	2105.1	2303.4	2419.6	2656.2	3051.4	3078.3	3399.9	3715.8	3690.3
1729.7	52.5°	1775.0	2024.4	2246.8	2463.5	2824.8	2888.5	3118.0	3500.5	3483.5
1321.7	55°	1551.2	1732.5	1983.3	2157.5	2549.9	2719.9	2906.9	3295.1	3286.6
1086.6	57.5°	1103.6	1453.5	1660.3	1904.0	2110.8	2418.2	2557.0	2877.2	2797.8
602.1	60°	748.0	912.3	1164.5	1426.5	1565.4	1872.8	2001.7	2258.1	2236.9
359.8	62.5°	395.2	546.8	726.7	858.5	959.1	1258.0	1311.8	1588.0	1581.0
144.5	65°	174.2	230.9	393.8	461.8	565.2	704.1	750.8	850.0	825.9
70.8	67.5°	90.7	137.4	222.4	273.4	344.2	396.7	434.9	466.1	485.9
46.7	70°	55.2	100.6	137.4	189.8	236.6	279.1	308.8	351.3	376.8
24.1	72.5°	41.1	63.7	94.9	145.9	171.4	221.0	250.7	281.9	304.6
19.8	75°	22.7	42.5	76.5	114.7	137.4	179.9	206.8	228.1	235.2
11.3	77.5°	14.2	32.6	63.7	89.2	107.7	145.9	138.8	158.7	175.7
8.5	80°	9.9	24.1	49.6	73.7	75.1	93.5	110.5	127.5	138.8
5.7	82.5°	7.1	19.8	36.8	56.7	49.6	72.2	86.4	99.2	72.2
4.2	85°	5.7	14.2	18.4	34.0	28.3	51.0	43.9	42.5	28.3
2.8	87.5°	4.2	7.1	12.7	15.6	11.3	11.3	14.2	17.0	14.2
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
4159.2
4055.8
4084.2
4108.2
4143.7
4215.9
4337.7
4497.8
4673.5
4820.8
4898.7
4809.5
4720.2
4636.6
4548.8
4446.8
4336.3
4217.3
4087.0
3918.4
3694.6
3494.8
3296.5
2789.3
2238.3
1582.4
816.0
485.9
378.2
308.8
230.9
178.5
140.2
52.4
28.3
14.2
0.0

(END OF REPORT)