

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: P636796

Luminaire Tested: **IFLD-S-SA2B-940-U-77-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636796
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2B-940-U-77-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor
Light Source: (32) 4000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6346.2 lumens
Efficiency: N/A
Efficacy: 77.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G1

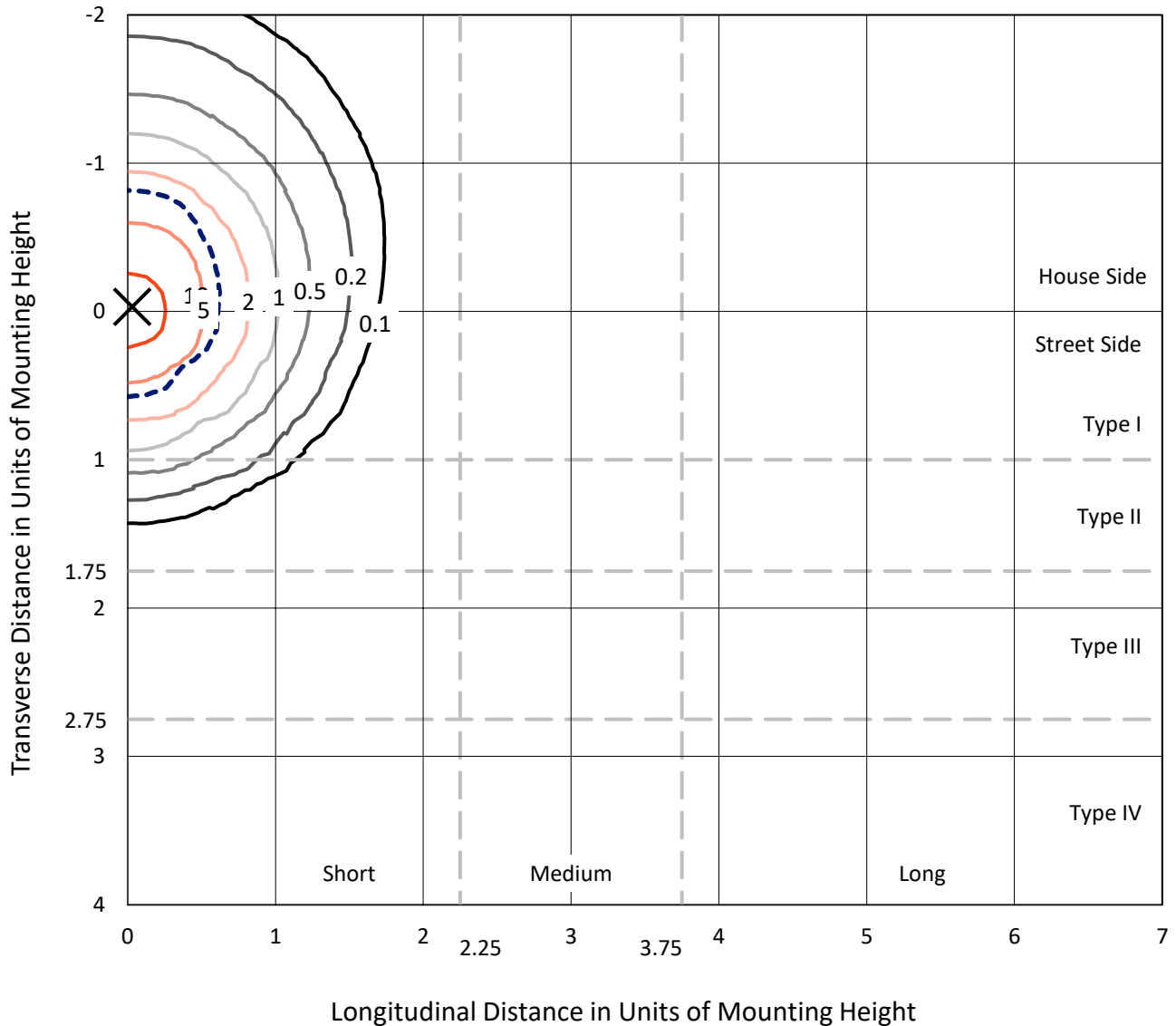
Input Watts (W): 82.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P636796
 CATALOG NUMBER: IFLD-S-SA2B-940-U-77-VI

Iso-Footcandle Lines of Horizontal Illumination

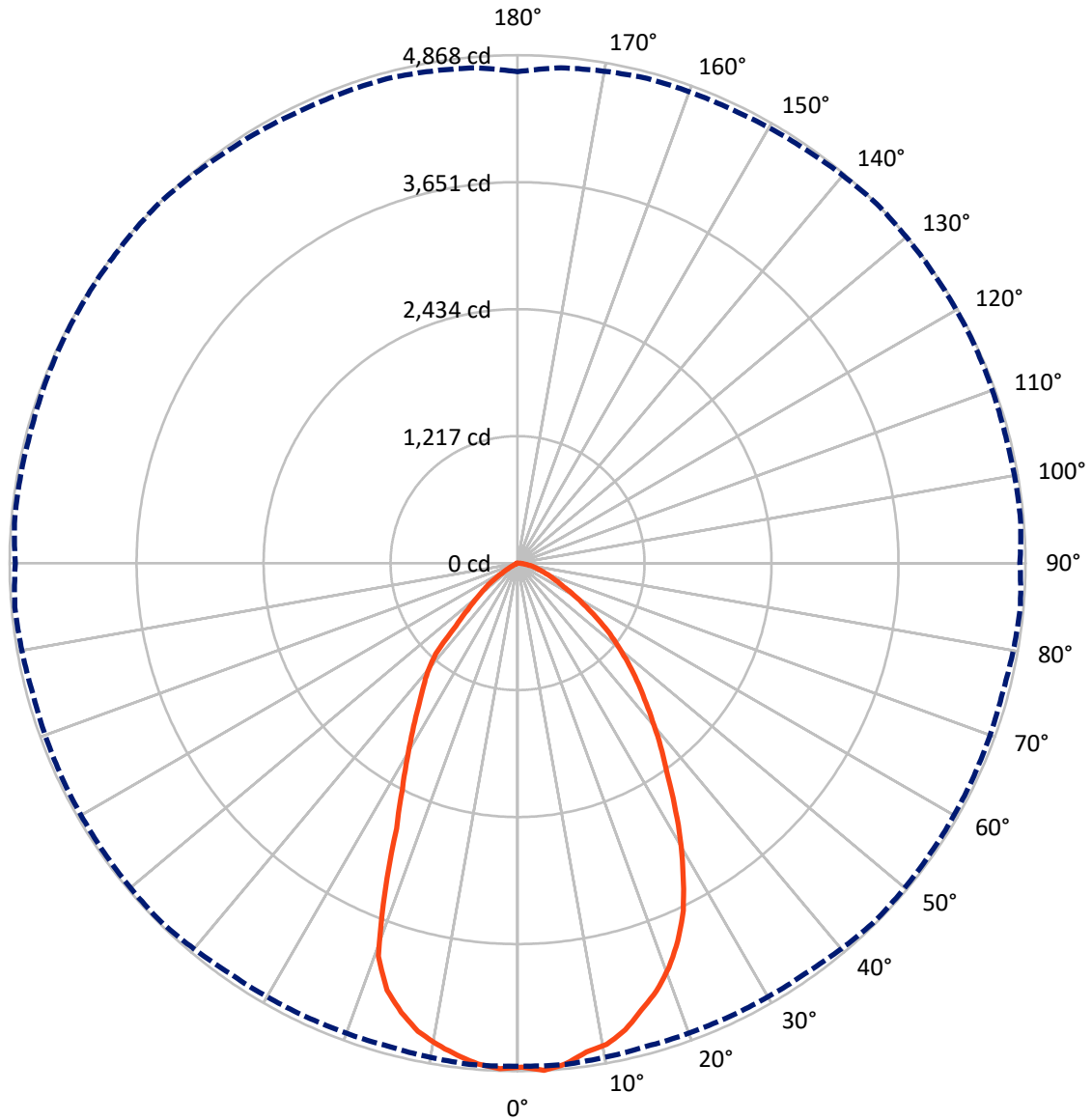
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 12.1 fc
 Type I - Short - N/A

REPORT NUMBER: P636796
CATALOG NUMBER: IFLD-S-SA2B-940-U-77-VI

Luminous Intensity Polar Plot



— Vertical Plane Through 135-Deg Lateral - - - Horizontal Cone Through 2.5-Deg Vertical

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 CATALOG NUMBER: IFLD-S-SA2B-940-U-77-VI

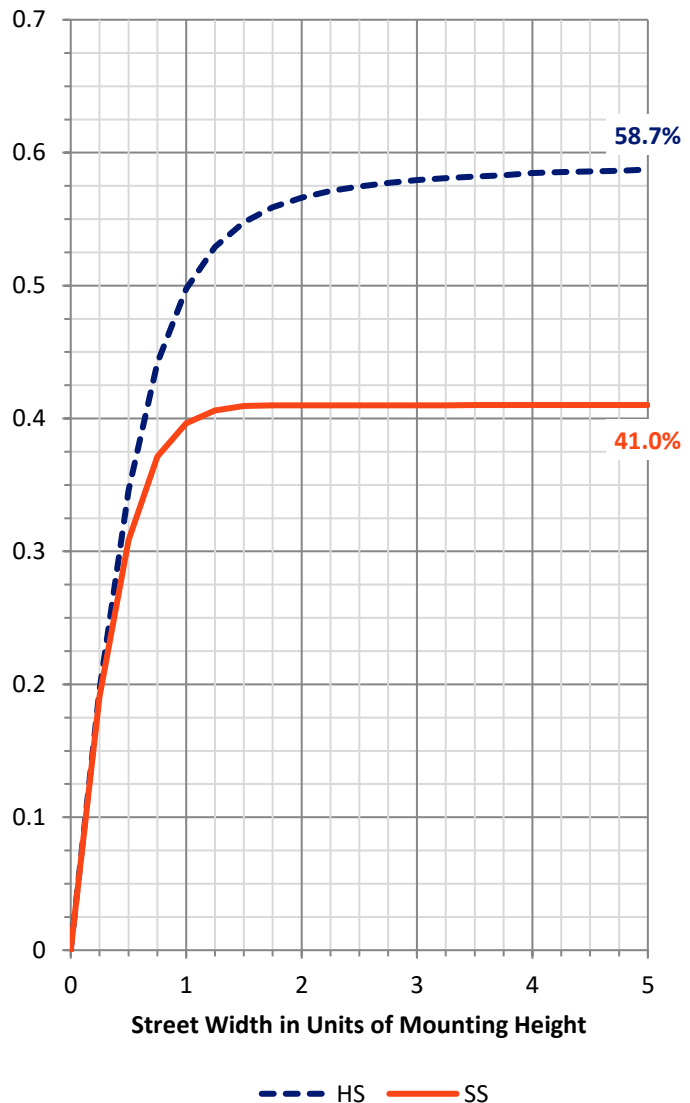
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3758.5	0.0	3758.5
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	2587.6	0.0	2587.6
	% Fixture	40.8	0.0	40.8
Total	Lumens	6346.2	0.0	6346.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	452.9	7.1
10°-20°	1214.5	19.1
20°-30°	1481.2	23.3
30°-40°	1352.3	21.3
40°-50°	977.3	15.4
50°-60°	533.6	8.4
60°-70°	220.6	3.5
70°-80°	89.4	1.4
80°-90°	24.3	0.4
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°	6346.2	100.0
0°-180°	6346.2	100.0



REPORT NUMBER: P636796

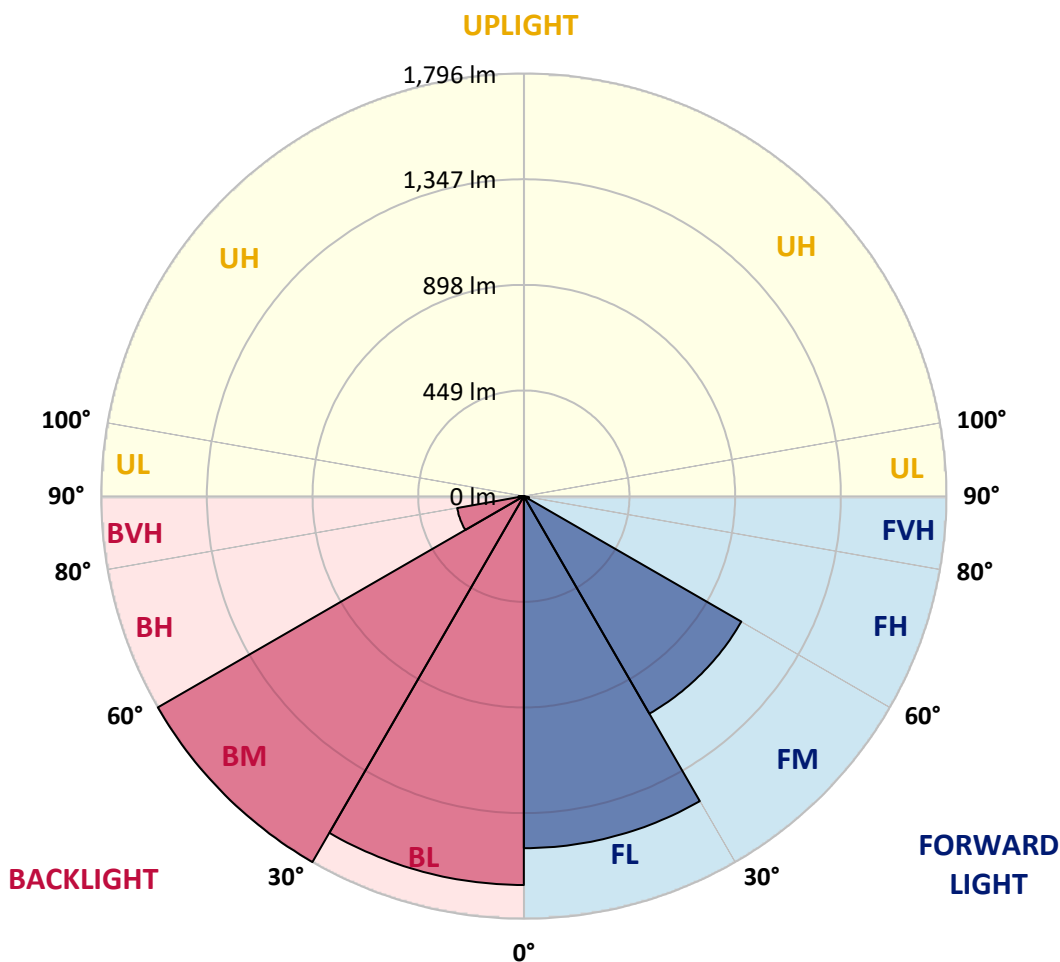
CATALOG NUMBER: IFLD-S-SA2B-940-U-77-VI

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1496.0	23.6			
FM (30°-60°)	1067.3	16.8			
FH (60°-80°)	22.4	0.4			G0/660
FVH (80°-90°)	1.9	0.0			G0/10
BL (0°-30°)	1652.6	26.0	B3/2500		
BM (30°-60°)	1795.9	28.3	B2/2500		
BH (60°-80°)	287.6	4.5	B1/500		G1/500
BVH (80°-90°)	22.4	0.4			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: P636796
 CATALOG NUMBER: IFLD-S-SA2B-940-U-77-VI

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	4829.4	4829.4	4829.4	4829.4	4829.4	4829.4	4829.4	4829.4	4829.4	4829.4
2.5°	4820.5	4826.7	4792.8	4796.3	4802.6	4848.2	4836.5	4825.8	4810.6	4836.5
5°	4814.2	4817.8	4782.0	4769.5	4774.9	4816.0	4778.5	4778.5	4774.9	4770.4
7.5°	4765.9	4767.7	4740.0	4717.7	4732.0	4750.7	4723.0	4736.5	4716.8	4732.0
10°	4693.6	4681.9	4648.9	4642.6	4658.7	4676.6	4657.8	4670.3	4652.4	4664.1
12.5°	4587.2	4569.3	4542.5	4534.5	4562.2	4586.3	4571.1	4564.0	4540.7	4569.3
15°	4177.0	4163.6	4224.4	4330.7	4426.3	4446.9	4430.8	4438.0	4389.7	4397.8
17.5°	3437.9	3412.9	3478.2	3730.2	4089.4	4278.9	4264.6	4218.1	4146.6	4162.7
20°	3124.3	3117.1	3110.0	3169.8	3421.0	3995.6	4015.3	3897.3	3795.4	3773.1
22.5°	2947.3	2944.6	2937.5	2950.9	3017.0	3386.1	3611.3	3502.3	3434.4	3428.1
25°	2785.6	2781.1	2759.7	2776.6	2776.6	2798.1	3086.7	3152.9	3093.0	3085.8
27.5°	2621.1	2613.1	2609.5	2617.6	2576.5	2431.7	2505.0	2827.6	2796.3	2798.1
30°	2443.3	2440.6	2430.8	2447.8	2320.9	2141.2	2094.8	2532.7	2538.9	2537.1
32.5°	2178.8	2190.4	2235.1	2253.8	2044.7	1896.4	1818.6	2191.3	2319.1	2316.4
35°	1582.7	1582.7	1728.4	1999.1	1791.8	1680.1	1638.1	1857.9	2101.9	2110.8
37.5°	1301.2	1305.7	1334.2	1457.6	1546.0	1506.7	1494.2	1563.9	1823.1	1837.4
40°	1170.7	1170.7	1170.7	1119.8	1117.1	1357.5	1350.3	1328.0	1574.6	1605.9
42.5°	1051.8	1054.5	1056.3	927.6	856.1	1173.4	1157.3	1123.3	1352.1	1388.8
45°	929.4	933.9	939.2	775.7	744.4	844.5	979.5	941.9	1132.3	1179.6
47.5°	567.5	574.6	696.2	657.7	661.3	651.5	798.9	792.7	928.5	995.5
50°	383.4	386.1	397.7	417.3	567.5	512.1	565.7	656.0	705.1	807.0
52.5°	321.7	326.2	297.6	270.8	372.7	400.4	395.0	487.1	506.7	632.7
55°	226.1	240.4	227.0	224.3	211.8	311.0	299.4	374.4	387.0	480.8
57.5°	23.2	26.8	46.5	167.1	138.5	176.1	213.6	274.4	286.9	354.8
60°	1.8	1.8	4.5	23.2	101.0	105.5	147.5	168.9	193.0	247.5
62.5°	0.0	0.9	1.8	3.6	16.1	56.3	74.2	88.5	116.2	160.0
65°	0.0	0.0	0.9	2.7	3.6	21.4	28.6	46.5	63.5	99.2
67.5°	0.0	0.0	0.9	1.8	2.7	5.4	9.8	17.0	34.0	56.3
70°	0.0	0.0	0.9	1.8	2.7	4.5	7.1	10.7	15.2	30.4
72.5°	0.0	0.0	0.9	0.9	1.8	4.5	5.4	7.1	10.7	15.2
75°	0.0	0.0	0.9	0.9	2.7	5.4	4.5	5.4	7.1	9.8
77.5°	0.0	0.0	0.9	1.8	2.7	5.4	4.5	5.4	5.4	6.3
80°	0.0	0.0	0.9	1.8	3.6	6.3	5.4	5.4	4.5	4.5
82.5°	0.0	0.0	0.9	2.7	3.6	8.0	8.0	7.1	3.6	2.7
85°	0.0	0.0	1.8	3.6	5.4	8.9	8.9	7.1	2.7	1.8
87.5°	0.0	0.0	1.8	2.7	4.5	6.3	8.9	7.1	2.7	0.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P636796
 CATALOG NUMBER: IFLD-S-SA2B-940-U-77-VI

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
4829.4	0°	4829.4	4829.4	4829.4	4829.4	4829.4	4829.4	4829.4	4829.4	4829.4
4814.2	2.5°	4838.3	4833.0	4850.8	4858.0	4867.8	4830.3	4807.1	4807.9	4765.0
4759.7	5°	4788.3	4789.2	4812.4	4810.6	4820.5	4799.9	4791.0	4775.8	4738.2
4690.9	7.5°	4724.8	4716.8	4739.1	4756.1	4731.1	4745.4	4724.8	4732.0	4709.6
4630.1	10°	4675.7	4656.9	4677.5	4689.1	4690.0	4675.7	4656.0	4637.3	4629.2
4535.4	12.5°	4566.7	4542.5	4577.4	4593.5	4590.8	4563.1	4540.7	4545.2	4519.3
4369.2	15°	4416.5	4417.4	4442.4	4457.6	4443.3	4437.1	4438.9	4428.1	4405.8
4139.5	17.5°	4186.8	4200.2	4266.4	4303.0	4311.1	4298.6	4292.3	4279.8	4257.4
3773.1	20°	3804.4	3884.8	4002.7	4116.2	4138.6	4135.0	4112.7	4107.3	4094.8
3410.2	22.5°	3468.3	3528.2	3664.9	3841.9	3933.0	3942.0	3915.2	3907.1	3893.7
3085.8	25°	3120.7	3185.0	3308.4	3500.5	3689.1	3727.5	3723.0	3698.9	3684.6
2798.1	27.5°	2827.6	2891.9	3003.6	3177.0	3379.0	3502.3	3513.9	3475.5	3474.6
2541.6	30°	2563.0	2651.5	2736.4	2877.6	3073.3	3258.3	3278.0	3251.2	3253.9
2306.6	32.5°	2355.7	2429.0	2501.4	2596.1	2758.8	2974.1	3051.0	3026.0	3016.1
2110.8	35°	2143.9	2194.0	2268.1	2354.8	2465.6	2679.2	2812.4	2793.6	2783.8
1846.3	37.5°	1902.6	1988.4	2042.0	2139.4	2226.1	2395.9	2583.6	2580.9	2560.4
1621.1	40°	1655.1	1745.3	1826.7	1925.0	1992.0	2126.9	2335.2	2334.3	2336.9
1387.9	42.5°	1430.8	1513.9	1612.2	1719.4	1783.8	1882.1	2105.5	2118.0	2133.2
1195.7	45°	1227.9	1303.0	1394.1	1524.6	1602.4	1658.7	1857.0	1914.2	1913.3
1024.1	47.5°	1045.6	1116.2	1193.0	1320.0	1419.1	1470.1	1634.5	1715.8	1710.5
840.0	50°	877.6	940.1	1020.6	1112.6	1245.8	1290.5	1412.9	1520.1	1512.1
669.4	52.5°	706.0	792.7	860.6	944.6	1084.9	1128.7	1223.4	1328.0	1321.7
502.2	55°	550.5	634.5	716.7	789.1	907.1	972.3	1040.2	1147.5	1145.7
393.2	57.5°	416.5	508.5	586.2	655.1	748.9	829.3	883.8	981.2	993.8
269.0	60°	308.3	378.9	462.9	539.8	614.0	697.1	733.7	829.3	834.7
184.1	62.5°	210.0	287.8	370.0	439.7	495.1	580.9	614.0	692.6	702.4
118.0	65°	145.7	195.7	289.5	339.6	407.5	480.8	513.9	576.4	596.1
67.9	67.5°	96.5	139.4	226.1	271.7	338.7	388.7	430.7	481.7	503.1
42.9	70°	52.7	102.8	161.8	214.5	272.6	320.8	361.9	403.0	421.8
19.7	72.5°	35.7	68.8	112.6	169.8	219.8	267.2	303.8	334.2	335.1
11.6	75°	17.9	46.5	85.8	131.4	171.6	218.1	251.1	269.0	247.5
7.1	77.5°	10.7	34.0	69.7	105.5	139.4	176.1	194.8	204.7	169.8
5.4	80°	6.3	24.1	54.5	84.0	96.5	129.6	147.5	150.1	113.5
3.6	82.5°	4.5	17.9	42.9	61.7	59.0	91.2	110.8	107.2	72.4
2.7	85°	2.7	12.5	26.8	38.4	35.7	59.9	64.3	66.1	42.0
1.8	87.5°	1.8	7.1	14.3	20.6	17.0	25.9	25.9	31.3	20.6
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
4829.4
4709.6
4729.3
4672.1
4593.5
4496.9
4383.5
4247.6
4066.2
3890.1
3669.4
3472.8
3240.4
3017.0
2770.4
2577.3
2336.9
2125.1
1915.1
1712.3
1519.2
1335.1
1150.2
988.4
842.7
704.2
591.6
500.5
414.7
327.1
231.5
163.5
106.3
67.0
38.4
17.9
0.0

(END OF REPORT)