

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: P637985

Luminaire Tested: **IFLD-S-SA2B-827-U-66-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637985
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2B-827-U-66-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor
Light Source: (32) 2700K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7077.2 lumens
Efficiency: N/A
Efficacy: 85.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G1

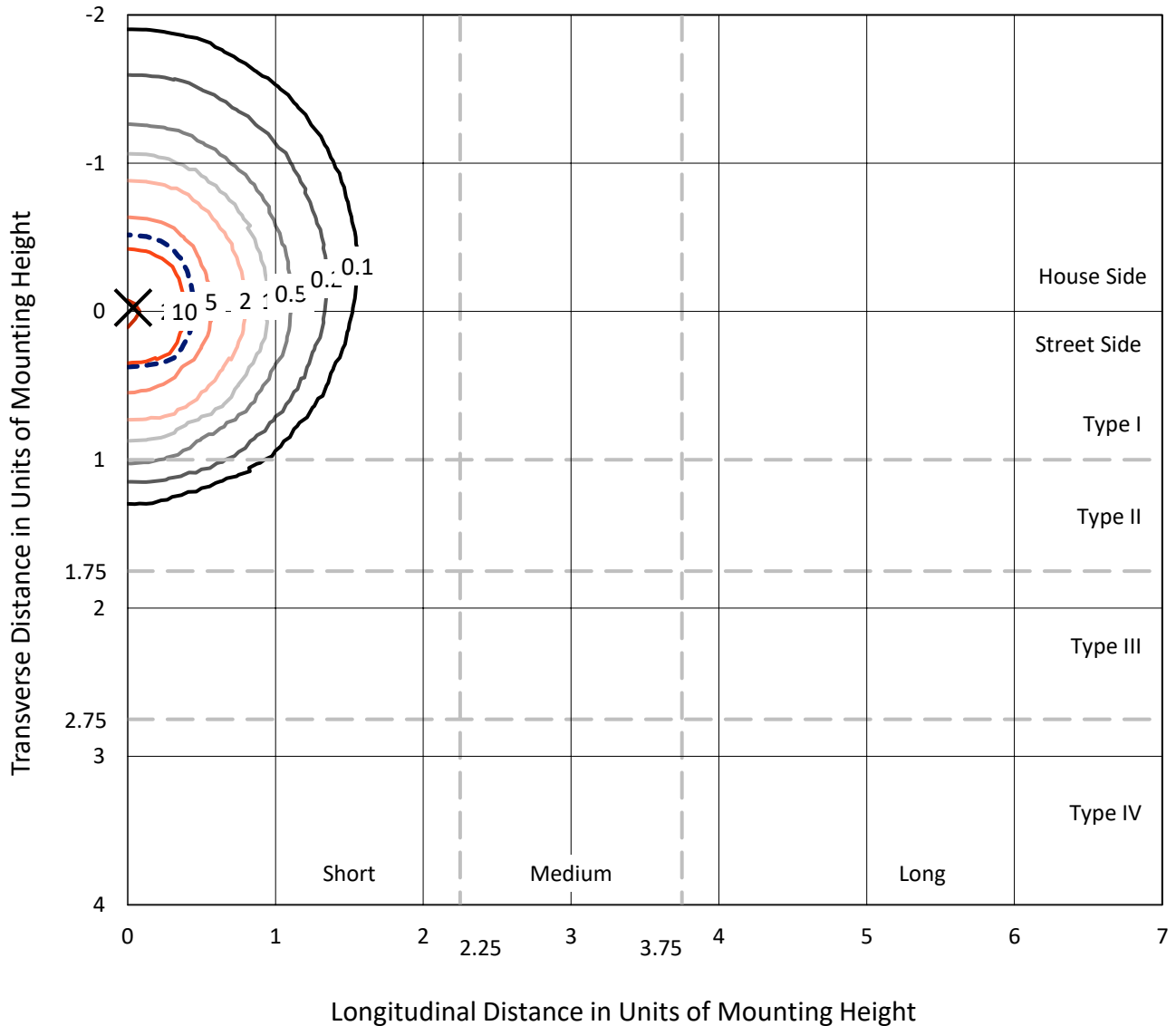
Input Watts (W): 82.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

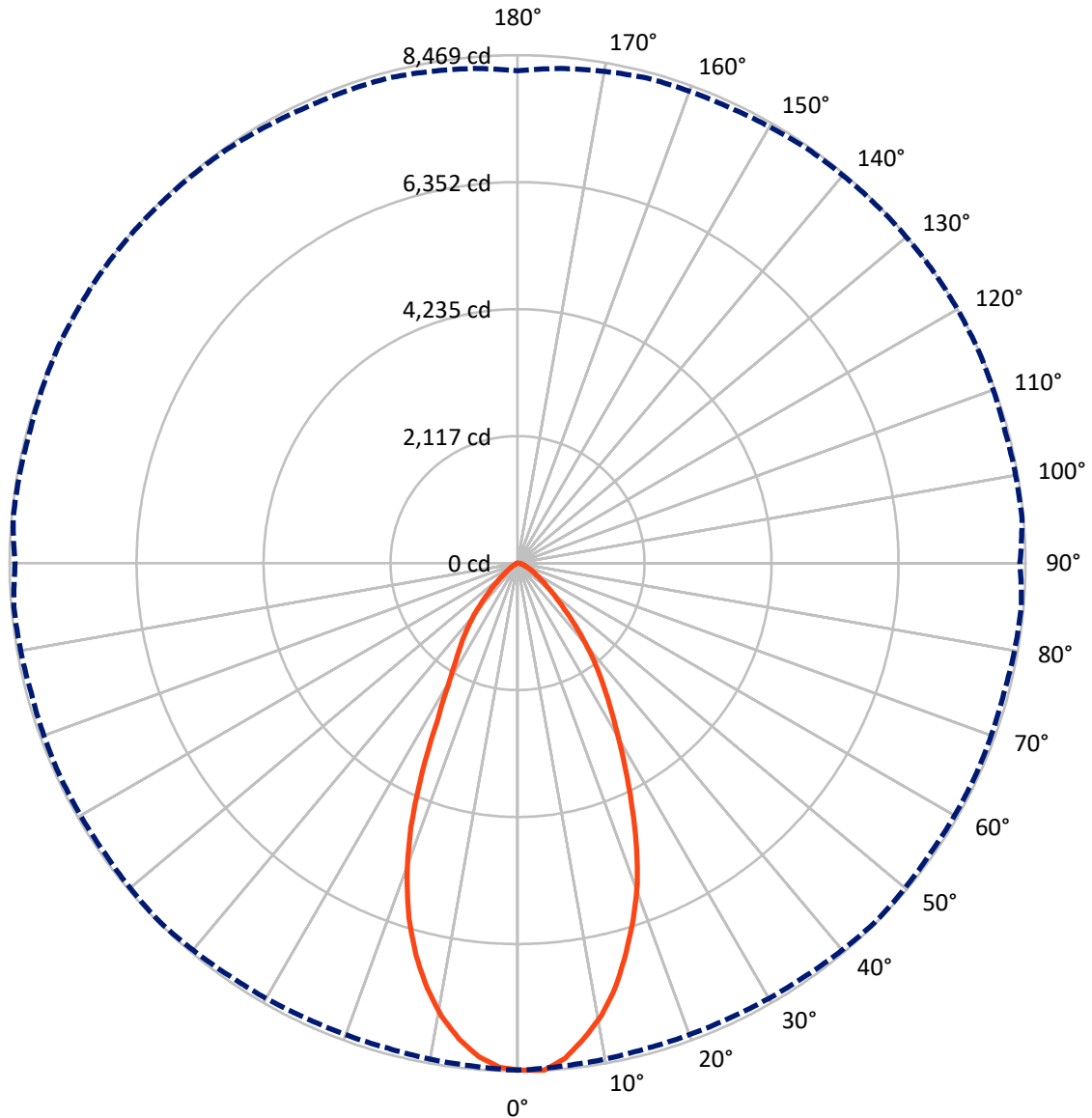
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 21.1 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 125-Deg Lateral - - - Horizontal Cone Through 2.5-Deg Vertical

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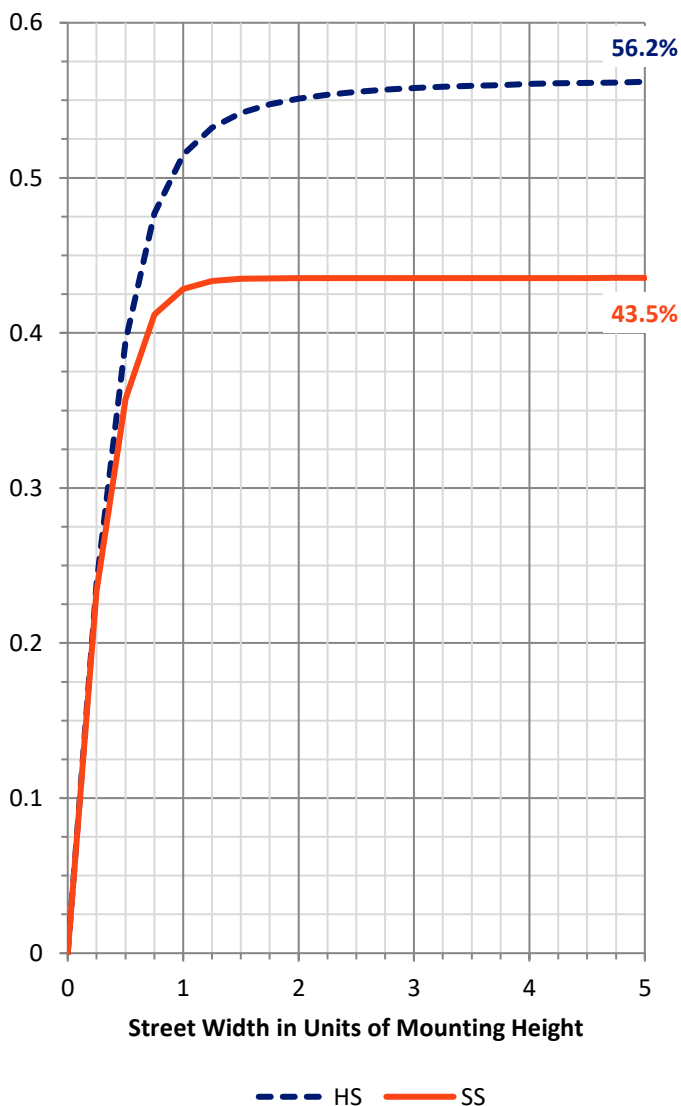
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4015.9	0.0	4015.9
	% Fixture	56.7	0.0	56.7
Street Side	Lumens	3061.3	0.0	3061.3
	% Fixture	43.3	0.0	43.3
Total	Lumens	7077.2	0.0	7077.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	767.8	10.8
10°-20°	1830.3	25.9
20°-30°	1864.1	26.3
30°-40°	1390.0	19.6
40°-50°	726.2	10.3
50°-60°	305.4	4.3
60°-70°	124.7	1.8
70°-80°	52.5	0.7
80°-90°	16.2	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°	7077.2	100.0
0°-180°	7077.2	100.0



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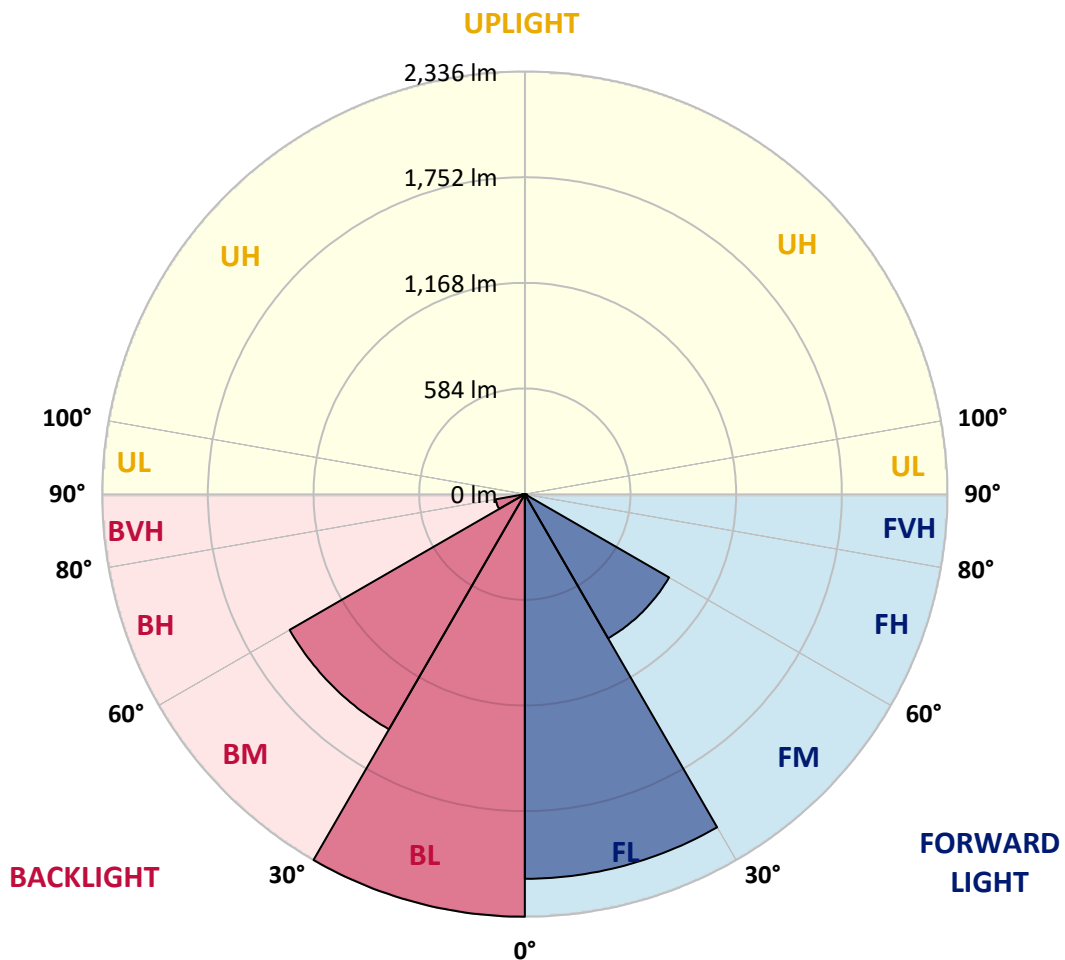
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2126.1	30.0			
FM (30°-60°)	920.4	13.0			
FH (60°-80°)	13.3	0.2			G0/660
FVH (80°-90°)	1.5	0.0			G0/10
BL (0°-30°)	2336.1	33.0	B3/2500		
BM (30°-60°)	1501.3	21.2	B2/2500		
BH (60°-80°)	163.9	2.3	B1/500		G1/500
BVH (80°-90°)	14.7	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	8455.6	8455.6	8455.6	8455.6	8455.6	8455.6	8455.6	8455.6	8455.6	8455.6
2.5°	8456.5	8422.0	8372.9	8368.3	8393.8	8449.2	8413.8	8415.6	8393.8	8431.1
5°	8323.8	8291.1	8257.4	8212.9	8250.1	8273.8	8255.6	8235.6	8207.4	8243.8
7.5°	8072.9	8054.7	8004.7	7984.7	8007.4	8033.8	7994.7	7989.2	7950.1	7997.4
10°	7689.2	7682.0	7632.9	7621.0	7641.0	7681.0	7663.8	7660.1	7635.6	7631.0
12.5°	7291.0	7262.9	7201.9	7198.3	7228.3	7288.3	7241.9	7197.4	7211.0	7222.9
15°	6265.6	6235.6	6386.5	6623.8	6748.3	6743.8	6757.4	6703.8	6687.4	6692.8
17.5°	4981.0	4930.1	4984.6	5351.9	5943.7	6287.4	6192.8	6077.4	6015.6	5974.6
20°	4299.2	4301.9	4291.9	4386.4	4755.5	5539.2	5516.5	5293.7	5212.8	5179.2
22.5°	3884.6	3869.2	3847.3	3877.3	3976.4	4436.4	4744.6	4540.1	4511.9	4474.6
25°	3478.2	3478.2	3451.9	3481.9	3510.1	3516.4	3825.5	3909.2	3854.6	3854.6
27.5°	3126.4	3108.2	3096.4	3110.1	3072.8	2893.7	2932.8	3361.0	3323.7	3301.0
30°	2777.3	2771.9	2751.9	2770.0	2631.9	2430.0	2348.2	2836.4	2875.5	2867.3
32.5°	2292.8	2314.6	2403.7	2431.9	2195.5	2032.8	1954.6	2354.6	2511.0	2504.6
35°	1558.2	1576.4	1678.2	2014.6	1820.0	1703.7	1680.9	1872.8	2130.0	2154.6
37.5°	1240.9	1238.2	1267.3	1327.3	1462.8	1434.6	1428.2	1478.2	1737.3	1748.2
40°	1022.7	1019.1	1018.2	969.1	935.5	1192.7	1175.5	1145.5	1370.0	1391.8
42.5°	824.6	828.2	830.9	723.6	674.6	920.0	910.0	879.1	1074.6	1100.0
45°	647.3	646.4	651.8	539.1	525.5	588.2	680.0	655.5	810.9	838.2
47.5°	335.5	347.3	420.9	417.3	423.6	417.3	514.6	508.2	610.0	653.6
50°	225.5	229.1	235.5	236.4	333.6	307.3	349.1	395.5	427.3	494.6
52.5°	174.5	177.3	160.9	150.9	204.5	227.3	229.1	273.6	298.2	366.4
55°	97.3	109.1	117.3	118.2	112.7	168.2	167.3	202.7	221.8	267.3
57.5°	12.7	15.5	23.6	76.4	75.5	93.6	117.3	147.3	158.2	195.5
60°	0.9	1.8	2.7	11.8	50.0	54.5	80.0	91.8	110.0	137.3
62.5°	0.0	0.0	0.9	2.7	10.0	31.8	41.8	48.2	64.5	90.0
65°	0.0	0.0	0.9	1.8	3.6	11.8	16.4	26.4	38.2	55.5
67.5°	0.0	0.0	0.9	1.8	2.7	4.5	7.3	11.8	20.0	33.6
70°	0.0	0.0	0.9	1.8	2.7	3.6	5.5	7.3	10.9	18.2
72.5°	0.0	0.0	0.9	0.9	1.8	4.5	4.5	5.5	7.3	10.0
75°	0.0	0.0	0.9	1.8	2.7	4.5	4.5	4.5	5.5	6.4
77.5°	0.0	0.0	0.9	1.8	2.7	4.5	3.6	4.5	4.5	4.5
80°	0.0	0.0	0.9	1.8	2.7	4.5	5.5	4.5	3.6	3.6
82.5°	0.0	0.0	0.9	2.7	2.7	6.4	6.4	6.4	2.7	2.7
85°	0.0	0.0	1.8	2.7	4.5	7.3	7.3	5.5	2.7	1.8
87.5°	0.0	0.0	0.9	1.8	1.8	3.6	5.5	4.5	1.8	0.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
8455.6	0°	8455.6	8455.6	8455.6	8455.6	8455.6	8455.6	8455.6	8455.6	8455.6
8376.5	2.5°	8443.8	8421.1	8463.8	8469.2	8451.1	8428.3	8375.6	8371.1	8279.2
8191.1	5°	8283.8	8246.5	8273.8	8292.0	8285.6	8261.1	8239.2	8219.2	8136.5
7890.1	7.5°	7985.6	7972.0	7984.7	7998.3	8024.7	7998.3	7989.2	7968.3	7886.5
7593.8	10°	7654.7	7629.2	7677.4	7671.0	7663.8	7656.5	7618.3	7622.0	7525.6
7190.1	12.5°	7248.3	7205.6	7251.9	7257.4	7251.9	7226.5	7183.8	7201.9	7113.8
6644.7	15°	6701.9	6697.4	6731.0	6752.8	6768.3	6741.0	6726.5	6735.6	6682.8
5942.8	17.5°	6031.0	6090.1	6200.1	6237.4	6238.3	6266.5	6258.3	6247.4	6208.3
5165.5	20°	5241.9	5355.5	5524.6	5698.3	5748.3	5724.6	5713.7	5733.7	5675.6
4435.5	22.5°	4513.7	4611.0	4807.4	5061.0	5207.4	5221.9	5219.2	5201.9	5179.2
3851.0	25°	3895.5	3981.9	4170.1	4401.9	4682.8	4724.6	4726.4	4721.0	4701.0
3321.0	27.5°	3373.7	3478.2	3581.9	3789.2	4088.3	4261.0	4239.2	4232.8	4225.5
2873.7	30°	2901.0	3032.8	3130.1	3259.1	3527.3	3761.0	3783.7	3772.8	3755.5
2503.7	32.5°	2526.4	2604.6	2728.2	2815.5	3008.2	3272.8	3360.1	3351.9	3336.4
2170.0	35°	2200.9	2231.9	2329.1	2426.4	2554.6	2811.0	2940.1	2921.9	2919.1
1768.2	37.5°	1812.8	1916.4	1970.0	2068.2	2158.2	2357.3	2535.5	2527.3	2528.2
1421.8	40°	1463.7	1523.7	1630.0	1712.8	1795.5	1940.9	2139.1	2144.6	2142.8
1100.9	42.5°	1123.7	1181.8	1293.7	1383.7	1457.3	1547.3	1736.4	1742.8	1750.9
857.3	45°	877.3	914.6	996.4	1090.0	1168.2	1222.7	1366.4	1407.3	1408.2
664.6	47.5°	680.9	723.6	781.8	871.8	948.2	987.3	1091.8	1147.3	1144.6
510.0	50°	534.6	573.6	620.9	691.8	774.6	805.5	882.7	937.3	934.6
384.6	52.5°	409.1	459.1	500.9	555.5	636.4	662.7	718.2	780.9	771.8
281.8	55°	310.0	360.9	400.0	445.5	519.1	552.7	590.9	640.9	642.7
218.2	57.5°	233.6	286.4	321.8	368.2	423.6	460.9	490.0	543.6	542.7
149.1	60°	167.3	212.7	255.5	303.6	346.4	389.1	409.1	460.0	461.8
105.5	62.5°	120.9	163.6	204.5	246.4	284.6	326.4	344.6	384.6	390.0
69.1	65°	84.5	114.5	161.8	193.6	236.4	267.3	290.9	325.5	331.8
40.9	67.5°	54.5	82.7	128.2	156.4	195.5	221.8	246.4	273.6	281.8
26.4	70°	32.7	62.7	95.5	125.5	160.9	184.5	208.2	231.8	236.4
12.7	72.5°	20.9	43.6	69.1	101.8	129.1	154.5	175.5	192.7	179.1
8.2	75°	11.8	30.0	54.5	80.0	104.5	129.1	146.4	155.5	124.5
5.5	77.5°	7.3	21.8	44.5	64.5	80.9	103.6	114.5	120.0	89.1
3.6	80°	4.5	16.4	37.3	52.7	52.7	76.4	89.1	93.6	64.5
2.7	82.5°	3.6	11.8	29.1	40.0	35.5	57.3	70.0	70.9	45.5
1.8	85°	2.7	9.1	18.2	26.4	24.5	40.0	40.9	45.5	30.0
1.8	87.5°	1.8	5.5	10.9	15.5	13.6	19.1	21.8	24.5	16.4
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
8455.6
8207.4
8070.1
7869.2
7492.9
7088.3
6619.2
6150.1
5633.7
5135.5
4633.7
4182.8
3733.7
3295.5
2889.1
2499.1
2110.9
1723.7
1384.6
1134.6
934.6
772.7
642.7
540.9
457.3
388.2
330.0
280.9
232.7
166.4
118.2
83.6
60.0
41.8
27.3
14.5
0.0

(END OF REPORT)