

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: P638276

Luminaire Tested: **IFLD-S-SA2C-830-U-77-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638276
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2C-830-U-77-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor
Light Source: (32) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8687.1 lumens
Efficiency: N/A
Efficacy: 80.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G1

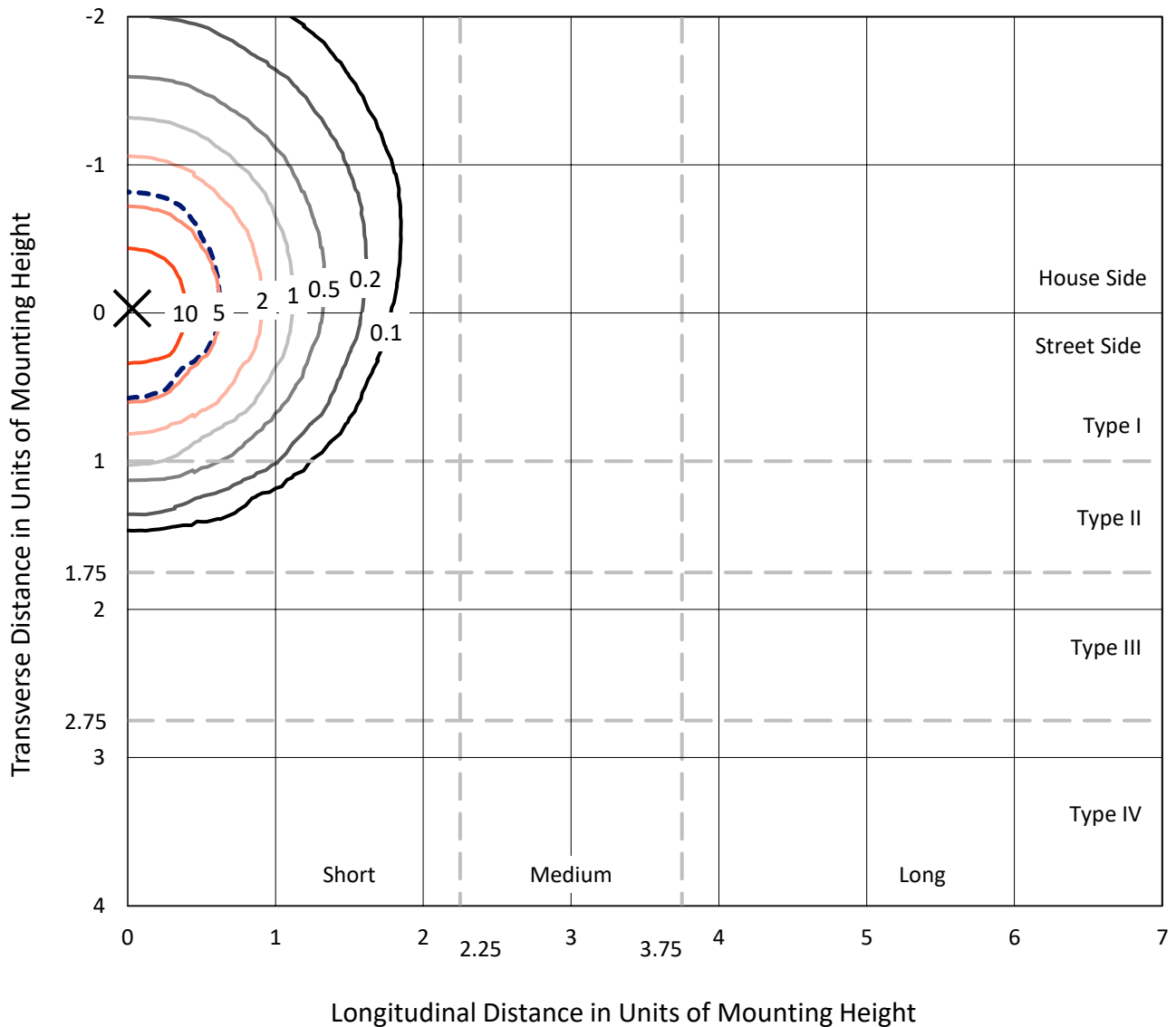
Input Watts (W): 108.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

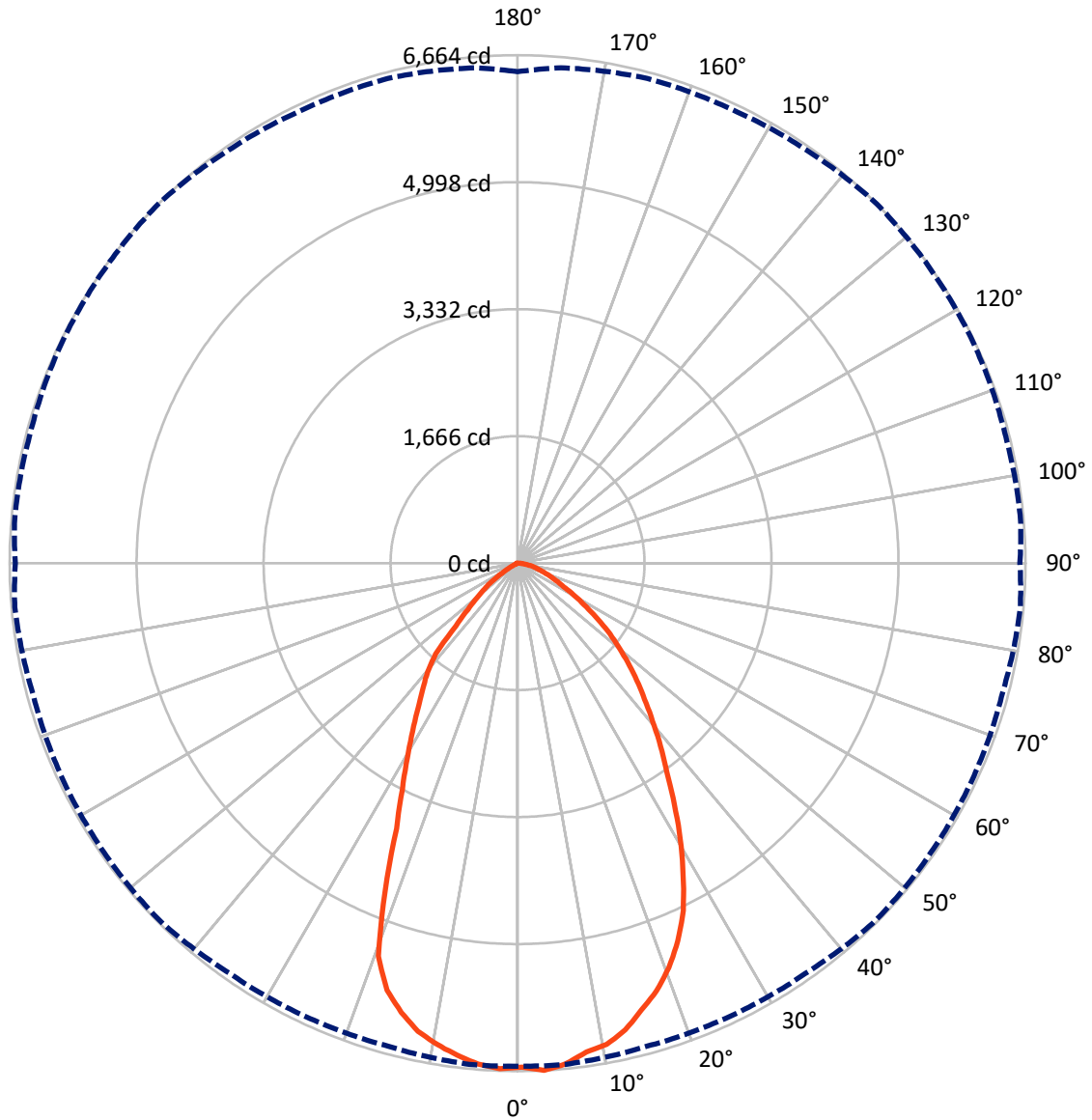
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 16.5 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



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

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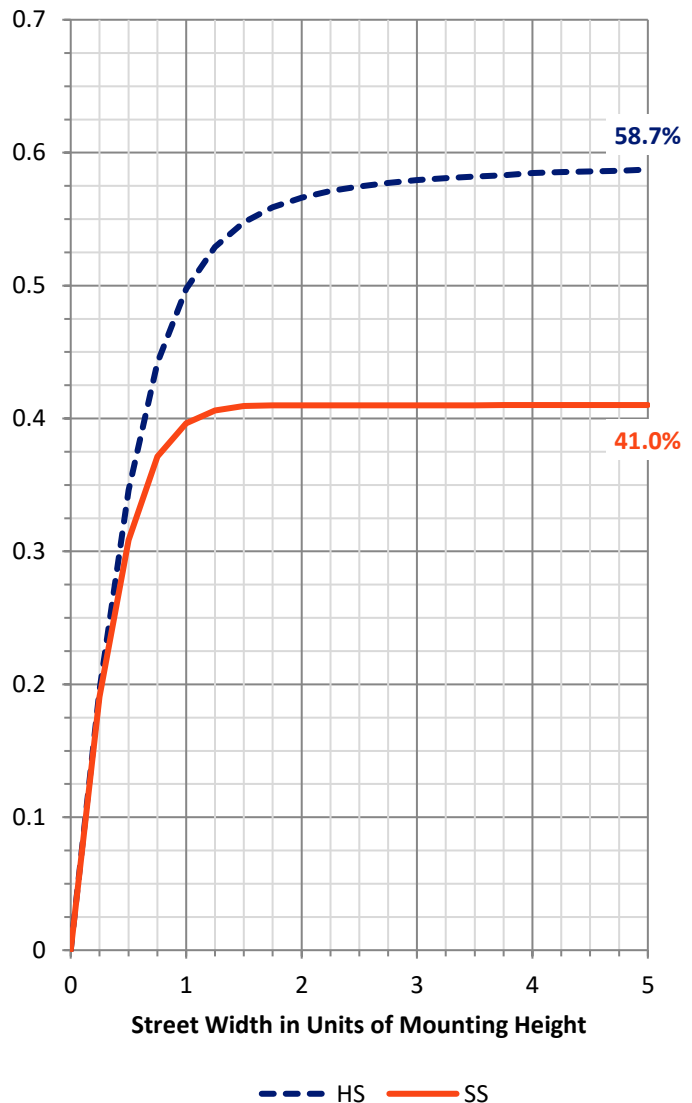
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5145.0	0.0	5145.0
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	3542.2	0.0	3542.2
	% Fixture	40.8	0.0	40.8
Total	Lumens	8687.1	0.0	8687.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	620.0	7.1
10°-20°	1662.6	19.1
20°-30°	2027.6	23.3
30°-40°	1851.2	21.3
40°-50°	1337.8	15.4
50°-60°	730.5	8.4
60°-70°	302.0	3.5
70°-80°	122.3	1.4
80°-90°	33.3	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°	8687.1	100.0
0°-180°	8687.1	100.0



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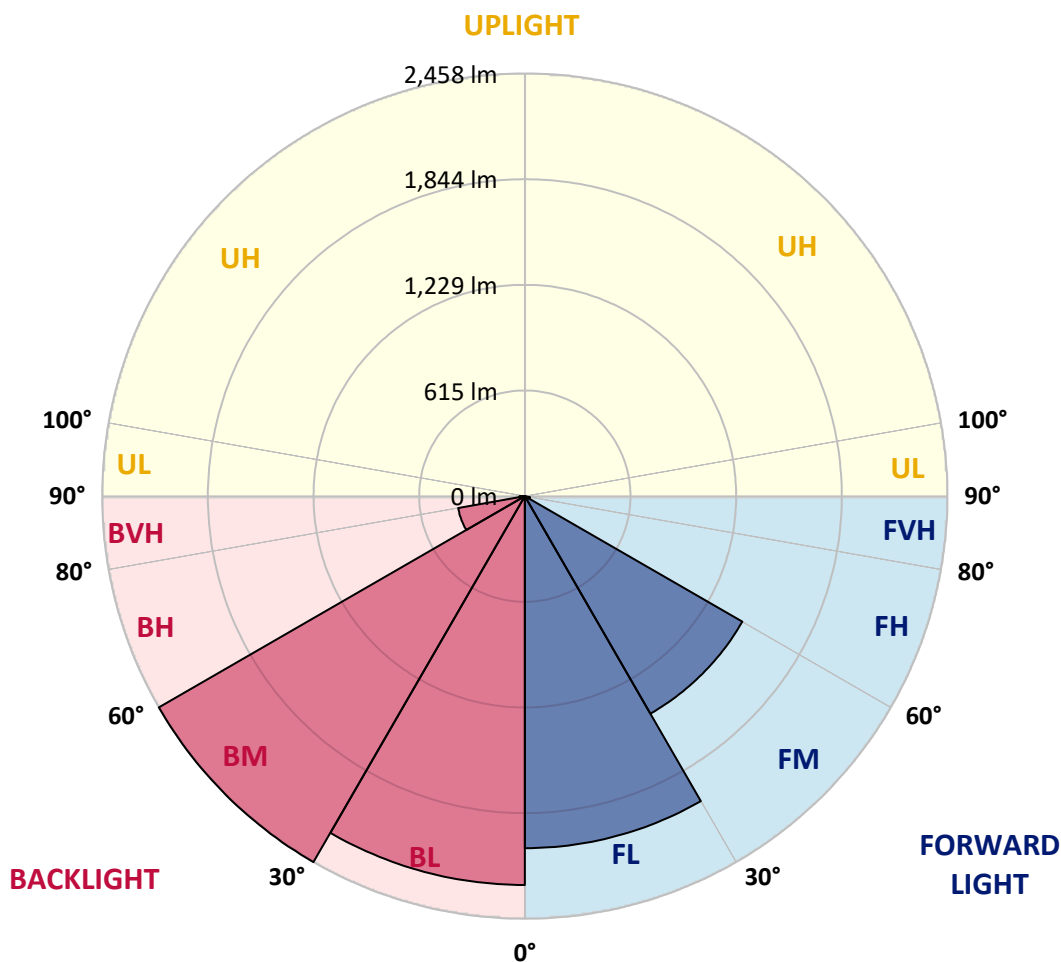
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2047.9	23.6			
FM (30°-60°)	1461.0	16.8			
FH (60°-80°)	30.6	0.4			G0/660
FVH (80°-90°)	2.7	0.0			G0/10
BL (0°-30°)	2262.3	26.0	B3/2500		
BM (30°-60°)	2458.4	28.3	B2/2500		
BH (60°-80°)	393.7	4.5	B1/500		G1/500
BVH (80°-90°)	30.6	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	6610.9	6610.9	6610.9	6610.9	6610.9	6610.9	6610.9	6610.9	6610.9	6610.9
2.5°	6598.7	6607.2	6560.7	6565.6	6574.2	6636.6	6620.7	6606.0	6585.2	6620.7
5°	6590.1	6595.0	6546.1	6528.9	6536.3	6592.5	6541.2	6541.2	6536.3	6530.1
7.5°	6524.0	6526.5	6488.6	6458.0	6477.5	6503.2	6465.3	6483.7	6456.7	6477.5
10°	6424.9	6409.0	6363.8	6355.2	6377.2	6401.7	6376.0	6393.1	6368.7	6384.6
12.5°	6279.4	6254.9	6218.2	6207.2	6245.1	6278.1	6257.3	6247.6	6215.8	6254.9
15°	5717.9	5699.5	5782.7	5928.3	6059.2	6087.3	6065.3	6075.1	6009.0	6020.0
17.5°	4706.2	4671.9	4761.2	5106.2	5598.0	5857.3	5837.7	5774.1	5676.3	5698.3
20°	4276.8	4267.0	4257.2	4339.2	4682.9	5469.5	5496.4	5335.0	5195.5	5164.9
22.5°	4034.6	4030.9	4021.1	4039.4	4130.0	4635.2	4943.5	4794.2	4701.3	4692.7
25°	3813.1	3807.0	3777.7	3800.9	3800.9	3830.3	4225.4	4315.9	4234.0	4224.2
27.5°	3588.0	3577.0	3572.1	3583.1	3526.9	3328.7	3429.0	3870.6	3827.8	3830.3
30°	3344.6	3340.9	3327.5	3350.7	3177.0	2931.1	2867.5	3466.9	3475.5	3473.0
32.5°	2982.5	2998.4	3059.6	3085.2	2799.0	2595.9	2489.5	2999.6	3174.5	3170.9
35°	2166.5	2166.5	2365.9	2736.6	2452.8	2299.9	2242.4	2543.3	2877.3	2889.5
37.5°	1781.2	1787.3	1826.4	1995.3	2116.4	2062.5	2045.4	2140.8	2495.6	2515.2
40°	1602.6	1602.6	1602.6	1532.8	1529.2	1858.2	1848.5	1817.9	2155.5	2198.3
42.5°	1439.9	1443.5	1446.0	1269.8	1172.0	1606.2	1584.2	1537.7	1850.9	1901.1
45°	1272.3	1278.4	1285.7	1061.9	1019.0	1156.0	1340.8	1289.4	1550.0	1614.8
47.5°	776.8	786.6	953.0	900.4	905.3	891.8	1093.7	1085.1	1271.0	1362.8
50°	524.8	528.5	544.4	571.3	776.8	701.0	774.4	897.9	965.2	1104.7
52.5°	440.4	446.5	407.4	370.7	510.1	548.1	540.7	666.7	693.6	866.1
55°	309.5	329.1	310.7	307.1	289.9	425.7	409.8	512.6	529.7	658.2
57.5°	31.8	36.7	63.6	228.8	189.6	241.0	292.4	375.6	392.7	485.7
60°	2.4	2.4	6.1	31.8	138.2	144.4	201.8	231.2	264.2	338.9
62.5°	0.0	1.2	2.4	4.9	22.0	77.1	101.5	121.1	159.0	219.0
65°	0.0	0.0	1.2	3.7	4.9	29.4	39.1	63.6	86.9	135.8
67.5°	0.0	0.0	1.2	2.4	3.7	7.3	13.5	23.2	46.5	77.1
70°	0.0	0.0	1.2	2.4	3.7	6.1	9.8	14.7	20.8	41.6
72.5°	0.0	0.0	1.2	1.2	2.4	6.1	7.3	9.8	14.7	20.8
75°	0.0	0.0	1.2	1.2	3.7	7.3	6.1	7.3	9.8	13.5
77.5°	0.0	0.0	1.2	2.4	3.7	7.3	6.1	7.3	7.3	8.6
80°	0.0	0.0	1.2	2.4	4.9	8.6	7.3	7.3	6.1	6.1
82.5°	0.0	0.0	1.2	3.7	4.9	11.0	11.0	9.8	4.9	3.7
85°	0.0	0.0	2.4	4.9	7.3	12.2	12.2	9.8	3.7	2.4
87.5°	0.0	0.0	2.4	3.7	6.1	8.6	12.2	9.8	3.7	1.2
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°
6610.9	0°	6610.9	6610.9	6610.9	6610.9	6610.9	6610.9	6610.9	6610.9	6610.9
6590.1	2.5°	6623.1	6615.8	6640.2	6650.0	6663.5	6612.1	6580.3	6581.5	6522.8
6515.5	5°	6554.6	6555.8	6587.6	6585.2	6598.7	6570.5	6558.3	6537.5	6486.1
6421.3	7.5°	6467.8	6456.7	6487.3	6510.6	6476.3	6495.9	6467.8	6477.5	6447.0
6338.1	10°	6400.5	6374.8	6402.9	6418.8	6420.0	6400.5	6373.6	6347.9	6336.9
6208.4	12.5°	6251.2	6218.2	6265.9	6287.9	6284.3	6246.3	6215.8	6221.9	6186.4
5980.9	15°	6045.7	6046.9	6081.2	6102.0	6082.4	6073.8	6076.3	6061.6	6031.0
5666.5	17.5°	5731.3	5749.7	5840.2	5890.3	5901.4	5884.2	5875.7	5858.5	5828.0
5164.9	20°	5207.7	5317.8	5479.3	5634.7	5665.3	5660.4	5629.8	5622.4	5605.3
4668.2	22.5°	4747.8	4829.7	5016.9	5259.1	5383.9	5396.1	5359.4	5348.4	5330.1
4224.2	25°	4271.9	4360.0	4528.8	4791.8	5049.9	5102.5	5096.4	5063.4	5043.8
3830.3	27.5°	3870.6	3958.7	4111.6	4348.9	4625.4	4794.2	4810.1	4757.5	4756.3
3479.2	30°	3508.5	3629.6	3745.8	3939.1	4207.0	4460.3	4487.2	4450.5	4454.2
3157.4	32.5°	3224.7	3325.0	3424.1	3553.8	3776.4	4071.3	4176.5	4142.2	4128.7
2889.5	35°	2934.8	3003.3	3104.8	3223.5	3375.2	3667.6	3849.8	3824.1	3810.7
2527.4	37.5°	2604.5	2721.9	2795.3	2928.7	3047.3	3279.8	3536.7	3533.0	3504.8
2219.1	40°	2265.6	2389.2	2500.5	2635.1	2726.8	2911.5	3196.6	3195.3	3199.0
1899.8	42.5°	1958.6	2072.3	2206.9	2353.7	2441.8	2576.3	2882.2	2899.3	2920.1
1636.8	45°	1680.9	1783.6	1908.4	2087.0	2193.4	2270.5	2542.1	2620.4	2619.2
1401.9	47.5°	1431.3	1527.9	1633.1	1806.9	1942.7	2012.4	2237.5	2348.8	2341.5
1149.9	50°	1201.3	1286.9	1397.0	1523.0	1705.3	1766.5	1934.1	2080.9	2069.9
916.3	52.5°	966.4	1085.1	1178.1	1293.1	1485.1	1545.1	1674.7	1817.9	1809.3
687.5	55°	753.6	868.6	981.1	1080.2	1241.7	1331.0	1424.0	1570.8	1568.3
538.3	57.5°	570.1	696.1	802.5	896.7	1025.2	1135.3	1209.9	1343.2	1360.3
368.2	60°	422.0	518.7	633.7	738.9	840.4	954.2	1004.4	1135.3	1142.6
252.0	62.5°	287.5	393.9	506.5	601.9	677.7	795.2	840.4	948.1	961.5
161.5	65°	199.4	267.9	396.4	464.9	557.8	658.2	703.4	789.0	816.0
93.0	67.5°	132.1	190.8	309.5	371.9	463.6	532.1	589.6	659.4	688.7
58.7	70°	72.2	140.7	221.4	293.6	373.1	439.2	495.4	551.7	577.4
26.9	72.5°	48.9	94.2	154.1	232.4	300.9	365.8	415.9	457.5	458.7
15.9	75°	24.5	63.6	117.4	179.8	234.9	298.5	343.8	368.2	338.9
9.8	77.5°	14.7	46.5	95.4	144.4	190.8	241.0	266.7	280.1	232.4
7.3	80°	8.6	33.0	74.6	115.0	132.1	177.4	201.8	205.5	155.4
4.9	82.5°	6.1	24.5	58.7	84.4	80.7	124.8	151.7	146.8	99.1
3.7	85°	3.7	17.1	36.7	52.6	48.9	82.0	88.1	90.5	57.5
2.4	87.5°	2.4	9.8	19.6	28.1	23.2	35.5	35.5	42.8	28.1
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
6610.9
6447.0
6473.9
6395.6
6287.9
6155.8
6000.4
5814.5
5566.2
5325.2
5023.0
4753.9
4435.8
4130.0
3792.3
3528.1
3199.0
2909.1
2621.6
2343.9
2079.7
1827.7
1574.4
1353.0
1153.6
964.0
809.8
685.1
567.6
447.7
316.8
223.9
145.6
91.7
52.6
24.5
0.0

(END OF REPORT)