

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: P636625

Luminaire Tested: **IFLD-S-SA2E-935-U-66-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636625
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2E-935-U-66-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor
Light Source: (32) 3500K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9568.8 lumens
Efficiency: N/A
Efficacy: 61.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G1

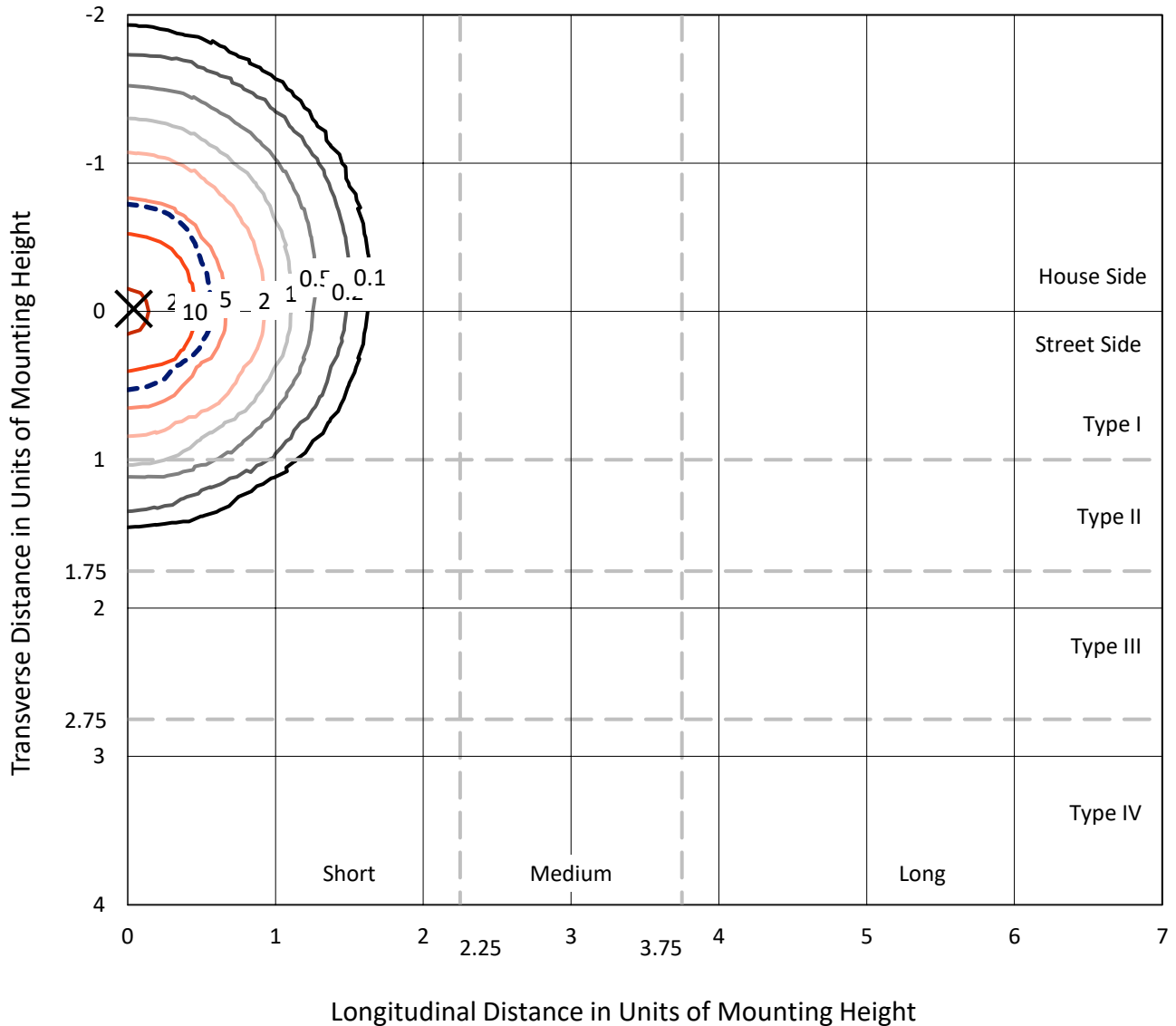
Input Watts (W): 156.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

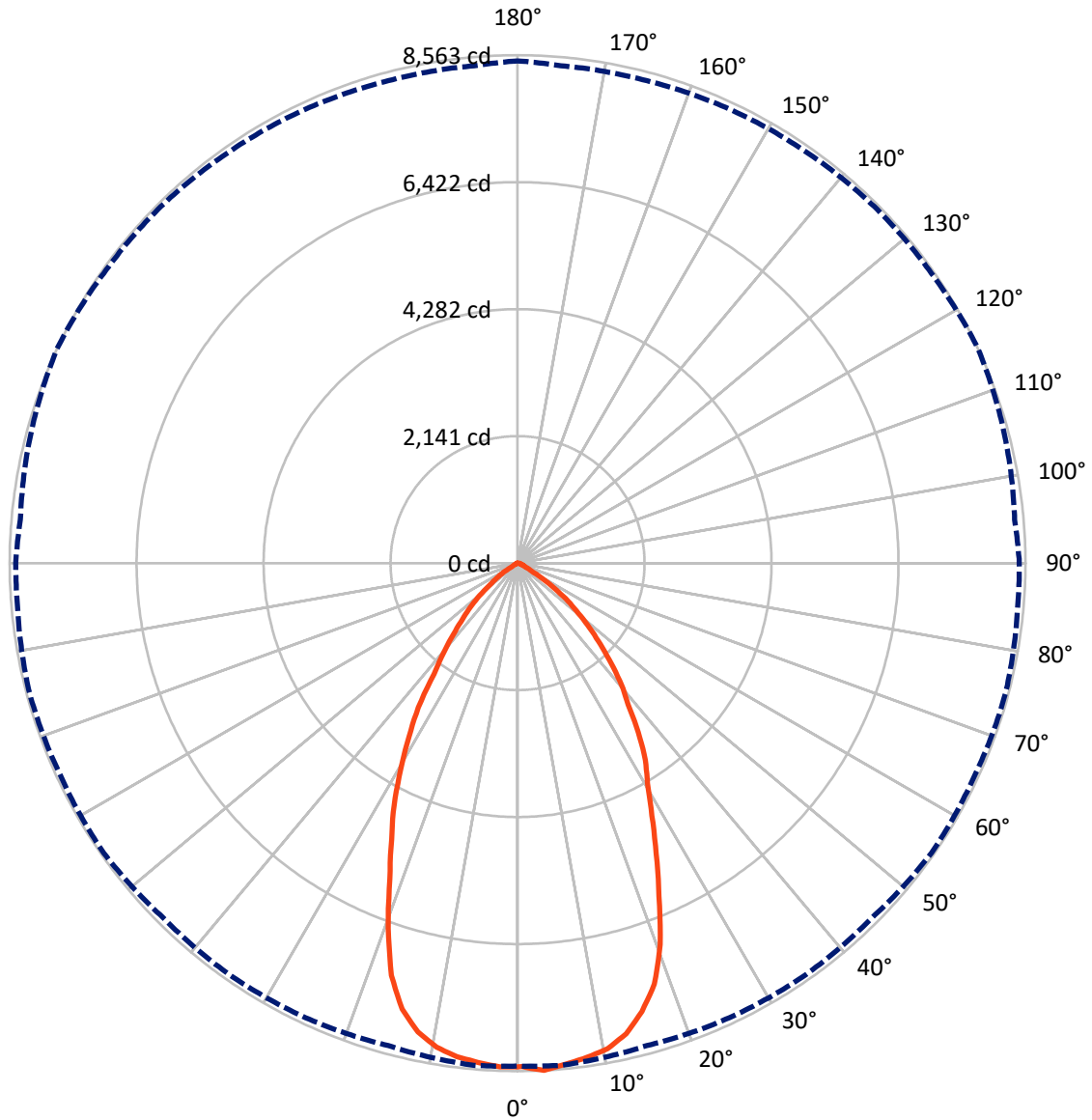
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 21.2 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 115-Deg Lateral - - - Horizontal Cone Through 2.5-Deg Vertical

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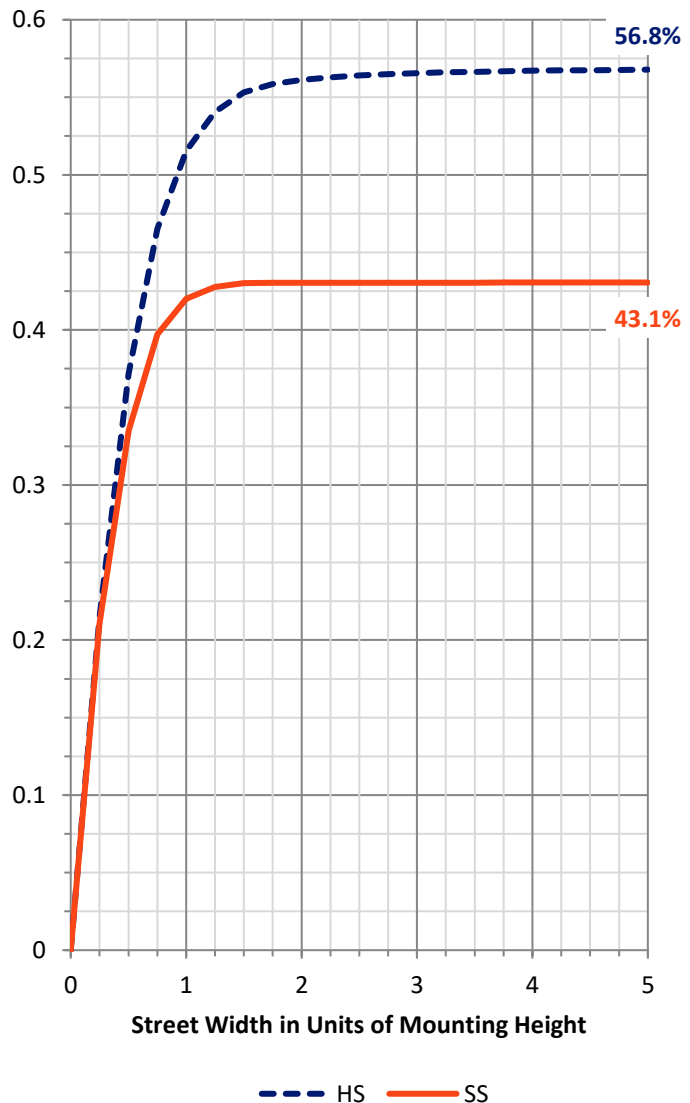
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5476.1	0.0	5476.1
	% Fixture	57.2	0.0	57.2
Street Side	Lumens	4092.7	0.0	4092.7
	% Fixture	42.8	0.0	42.8
Total	Lumens	9568.8	0.0	9568.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	799.7	8.4
10°-20°	2120.3	22.2
20°-30°	2425.1	25.3
30°-40°	2078.3	21.7
40°-50°	1374.2	14.4
50°-60°	599.7	6.3
60°-70°	117.8	1.2
70°-80°	42.5	0.4
80°-90°	11.3	0.1
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°	9568.8	100.0
0°-180°	9568.8	100.0



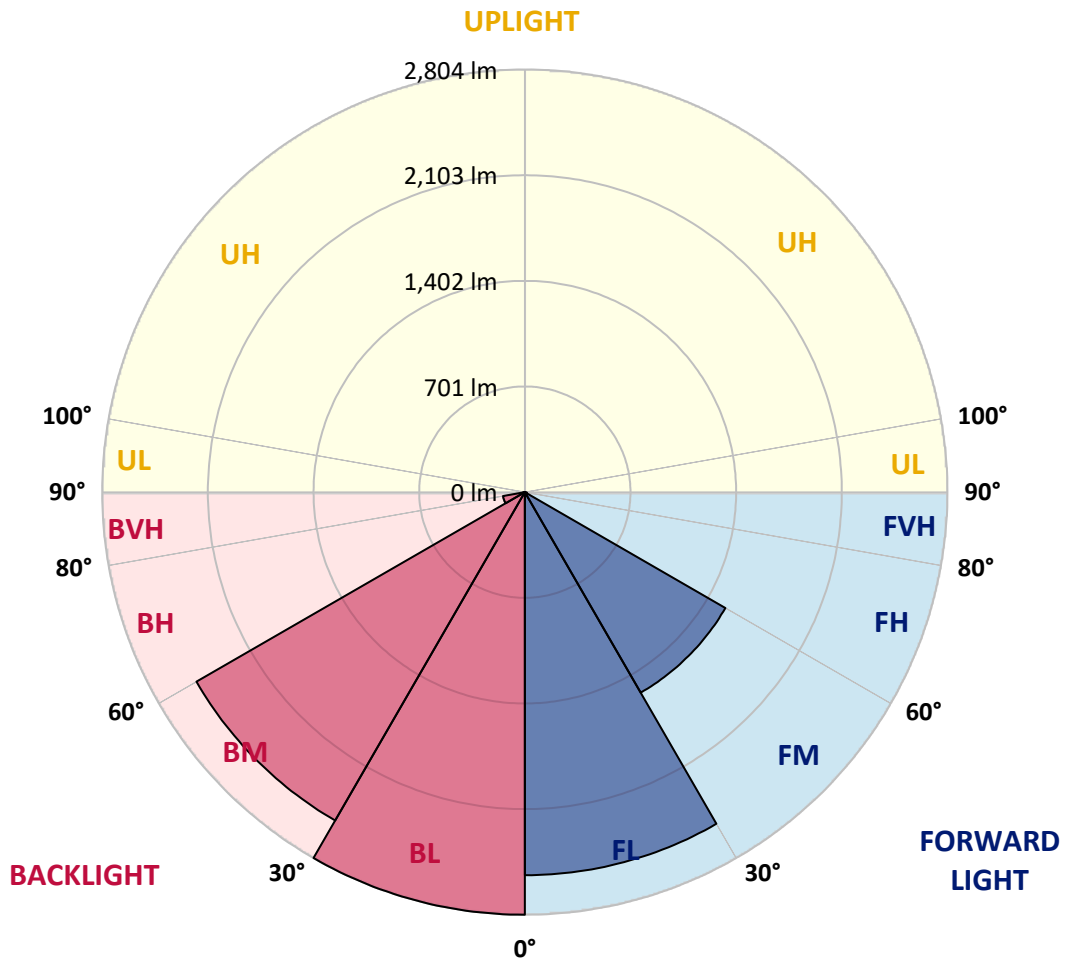
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2541.3	26.6			
FM	(30°-60°)	1536.6	16.1			
FH	(60°-80°)	13.0	0.1			G0/660
FVH	(80°-90°)	1.9	0.0			G0/10
BL	(0°-30°)	2803.8	29.3	B4/5000		
BM	(30°-60°)	2515.6	26.3	B3/5000		
BH	(60°-80°)	147.3	1.5	B1/500		G1/500
BVH	(80°-90°)	9.4	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G1

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	8490.0	8490.0	8490.0	8490.0	8490.0	8490.0	8490.0	8490.0	8490.0	8490.0
2.5°	8477.8	8498.1	8420.8	8455.4	8469.6	8451.3	8518.4	8498.1	8514.4	8463.5
5°	8477.8	8498.1	8408.6	8424.9	8428.9	8394.4	8467.6	8443.2	8445.2	8392.3
7.5°	8424.9	8449.3	8367.9	8380.1	8382.2	8353.7	8416.7	8382.2	8370.0	8315.0
10°	8282.5	8296.7	8223.5	8254.0	8282.5	8256.1	8311.0	8272.3	8272.3	8223.5
12.5°	8056.7	8083.2	8001.8	8038.4	8062.8	8032.3	8095.4	8081.1	8083.2	8034.4
15°	7645.9	7554.3	7652.0	7725.2	7727.2	7721.1	7780.1	7765.9	7776.0	7702.8
17.5°	5648.5	5626.1	5740.0	6604.4	7247.2	7334.7	7344.8	7267.5	7232.9	7161.8
20°	5233.5	5249.8	5225.4	5229.4	5735.9	6787.5	6724.4	6533.2	6445.8	6374.6
22.5°	4930.4	4904.0	4887.7	4877.6	4891.8	5577.3	6030.8	5742.0	5695.2	5660.7
25°	4600.9	4588.7	4568.4	4564.3	4556.2	4440.3	5093.2	5119.6	5044.4	5001.6
27.5°	4293.8	4285.7	4263.3	4261.3	4167.7	3887.0	3958.2	4586.7	4566.4	4550.1
30°	3966.3	3950.1	3937.8	3937.8	3655.1	3366.3	3250.4	3998.9	3998.9	3984.6
32.5°	3610.4	3596.1	3600.2	3551.4	3213.7	2949.3	2766.3	3451.7	3665.3	3653.1
35°	2206.9	2202.8	2615.7	3158.8	2762.2	2522.2	2510.0	2953.4	3264.6	3297.1
37.5°	1964.9	1952.7	1958.8	1993.3	2365.6	2270.0	2265.9	2341.1	2778.5	2794.7
40°	1763.5	1755.4	1749.3	1625.2	1507.2	2025.9	2011.6	1962.8	2373.7	2402.2
42.5°	1572.3	1564.2	1564.2	1389.2	1198.0	1665.9	1672.0	1615.0	2001.5	2011.6
45°	1375.0	1368.9	1334.3	1108.5	1053.6	1106.5	1385.2	1320.1	1588.6	1694.3
47.5°	648.9	644.8	933.6	921.4	917.3	884.8	1057.7	1094.3	1261.1	1366.9
50°	520.7	516.6	492.2	433.2	754.6	671.2	762.8	842.1	895.0	992.6
52.5°	431.2	427.1	376.3	333.6	419.0	490.2	455.6	563.4	561.4	667.2
55°	282.7	262.4	288.8	272.6	219.7	356.0	347.8	427.1	417.0	508.5
57.5°	6.1	6.1	14.2	154.6	138.3	150.5	199.3	244.1	274.6	301.0
60°	2.0	2.0	4.1	8.1	57.0	63.1	77.3	89.5	126.1	156.6
62.5°	0.0	0.0	2.0	4.1	8.1	32.5	36.6	42.7	59.0	81.4
65°	0.0	0.0	0.0	2.0	4.1	8.1	12.2	26.4	36.6	46.8
67.5°	0.0	0.0	0.0	2.0	2.0	4.1	8.1	12.2	16.3	32.5
70°	0.0	0.0	0.0	2.0	2.0	4.1	6.1	8.1	12.2	16.3
72.5°	0.0	0.0	0.0	2.0	2.0	6.1	4.1	6.1	8.1	10.2
75°	0.0	0.0	0.0	2.0	2.0	2.0	4.1	6.1	6.1	8.1
77.5°	0.0	0.0	0.0	2.0	4.1	4.1	4.1	4.1	4.1	6.1
80°	0.0	0.0	0.0	2.0	2.0	4.1	6.1	8.1	4.1	4.1
82.5°	0.0	0.0	0.0	4.1	2.0	8.1	12.2	10.2	4.1	2.0
85°	0.0	0.0	0.0	2.0	8.1	10.2	10.2	6.1	2.0	2.0
87.5°	0.0	0.0	0.0	2.0	2.0	4.1	6.1	6.1	2.0	2.0
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°
8490.0	0°	8490.0	8490.0	8490.0	8490.0	8490.0	8490.0	8490.0	8490.0	8490.0
8459.5	2.5°	8412.7	8492.0	8563.2	8518.4	8502.2	8469.6	8445.2	8418.8	8416.7
8386.2	5°	8339.5	8414.7	8483.9	8431.0	8435.1	8418.8	8402.5	8396.4	8400.5
8311.0	7.5°	8276.4	8339.5	8414.7	8370.0	8382.2	8372.0	8363.9	8351.7	8370.0
8213.3	10°	8180.8	8237.8	8325.2	8282.5	8276.4	8266.2	8258.1	8235.7	8245.9
8036.4	12.5°	7971.3	8042.5	8142.2	8093.3	8109.6	8081.1	8068.9	8054.7	8056.7
7729.2	15°	7686.5	7741.5	7843.2	7804.5	7816.7	7798.4	7798.4	7798.4	7812.6
7171.9	17.5°	7190.2	7302.1	7462.8	7414.0	7432.3	7436.4	7432.3	7446.5	7464.8
6378.7	20°	6382.7	6573.9	6866.8	6962.4	7001.1	7003.1	6974.6	7009.2	7045.8
5636.2	22.5°	5640.3	5841.7	6100.0	6362.4	6525.1	6517.0	6521.0	6543.4	6582.1
4975.2	25°	4997.6	5190.8	5424.7	5658.6	6014.6	6087.8	6089.8	6110.2	6140.7
4523.6	27.5°	4533.8	4609.1	4822.6	5058.6	5441.0	5674.9	5662.7	5681.0	5713.5
3958.2	30°	3974.5	4263.3	4312.1	4456.5	4786.0	5215.2	5217.2	5237.6	5270.1
3624.6	32.5°	3614.4	3805.6	3956.2	3960.2	4240.9	4682.3	4769.8	4790.1	4812.5
3278.8	35°	3276.8	3299.2	3502.6	3559.5	3722.2	4159.6	4314.1	4326.3	4363.0
2788.6	37.5°	2835.4	2967.6	3024.6	3228.0	3236.1	3590.0	3897.2	3885.0	3913.4
2400.1	40°	2430.6	2556.8	2701.2	2849.7	2870.0	3134.4	3474.1	3486.3	3498.5
1991.3	42.5°	2007.6	2168.3	2316.7	2416.4	2554.7	2707.3	3030.7	3087.6	3116.1
1706.5	45°	1737.0	1781.8	1958.8	2105.2	2245.6	2316.7	2619.8	2723.5	2741.8
1350.6	47.5°	1368.9	1519.4	1639.4	1763.5	1938.4	2001.5	2221.1	2365.6	2379.8
1002.8	50°	1057.7	1165.5	1330.2	1442.1	1645.5	1680.1	1830.6	2017.7	2036.0
671.2	52.5°	756.7	903.1	1063.8	1171.6	1366.9	1411.6	1523.5	1702.5	1714.7
514.6	55°	543.1	638.7	770.9	925.5	1067.9	1167.5	1244.8	1415.7	1431.9
337.6	57.5°	370.2	459.7	514.6	669.2	754.6	862.4	925.5	1055.7	1067.9
160.7	60°	177.0	219.7	262.4	339.7	394.6	486.1	526.8	579.7	593.9
97.6	62.5°	113.9	134.2	170.9	203.4	256.3	313.2	329.5	374.3	390.5
61.0	65°	75.3	95.6	134.2	142.4	195.3	240.0	260.4	292.9	311.2
36.6	67.5°	42.7	67.1	99.7	118.0	154.6	197.3	219.7	248.1	264.4
24.4	70°	28.5	54.9	79.3	97.6	122.0	158.7	187.1	211.5	221.7
12.2	72.5°	16.3	34.6	54.9	77.3	97.6	132.2	158.7	179.0	118.0
8.1	75°	10.2	26.4	46.8	65.1	81.4	105.8	128.1	126.1	52.9
6.1	77.5°	8.1	20.3	40.7	54.9	67.1	73.2	91.5	103.7	40.7
4.1	80°	6.1	16.3	36.6	46.8	26.4	52.9	71.2	77.3	28.5
4.1	82.5°	4.1	10.2	30.5	32.5	18.3	38.6	57.0	50.9	20.3
2.0	85°	2.0	6.1	10.2	18.3	16.3	18.3	14.2	20.3	14.2
2.0	87.5°	2.0	4.1	8.1	8.1	8.1	6.1	8.1	8.1	8.1
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
8490.0
8465.6
8451.3
8420.8
8294.7
8115.7
7818.7
7525.8
7070.2
6588.2
6193.6
5744.1
5327.1
4863.3
4401.6
3948.0
3537.1
3156.8
2786.6
2414.4
2062.5
1737.0
1446.2
1092.3
610.2
394.6
311.2
262.4
219.7
95.6
52.9
40.7
30.5
20.3
14.2
8.1
0.0

(END OF REPORT)