

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: P636567

Luminaire Tested: **IFLD-S-SA2E-927-U-66-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636567
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2E-927-U-66-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor
Light Source: (32) 2700K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9123.5 lumens
Efficiency: N/A
Efficacy: 58.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G1

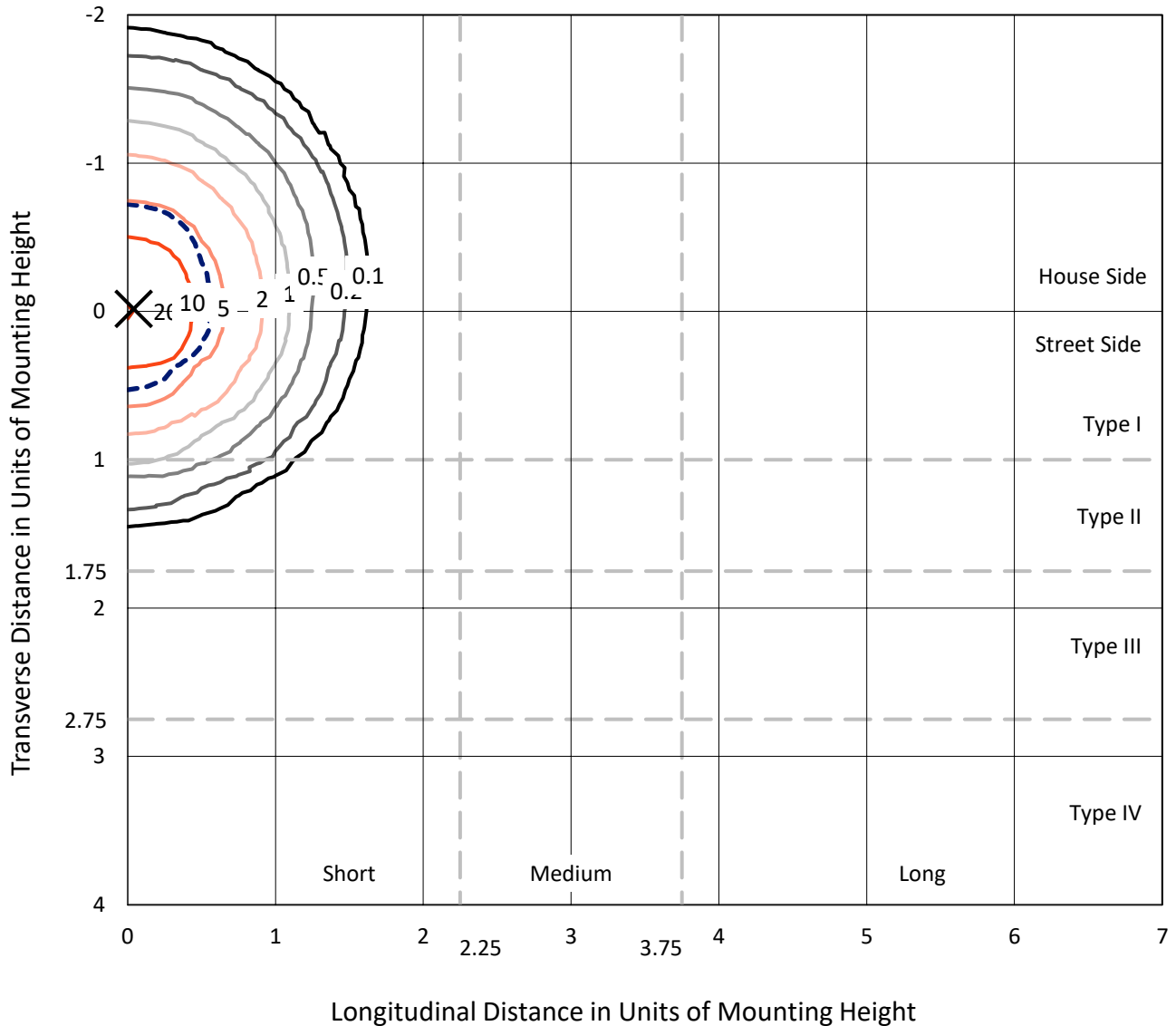
Input Watts (W): 156.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

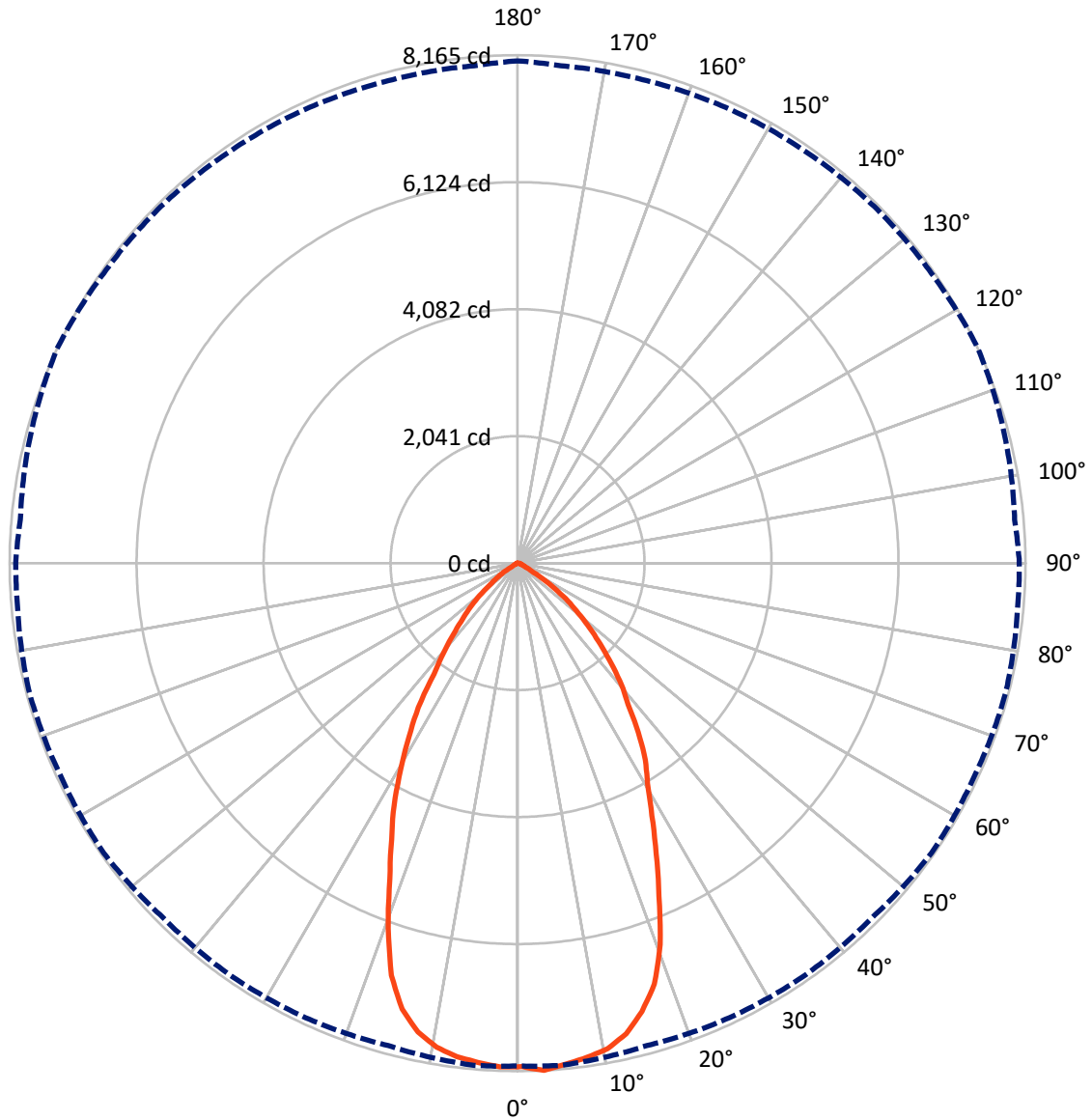
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 20.2 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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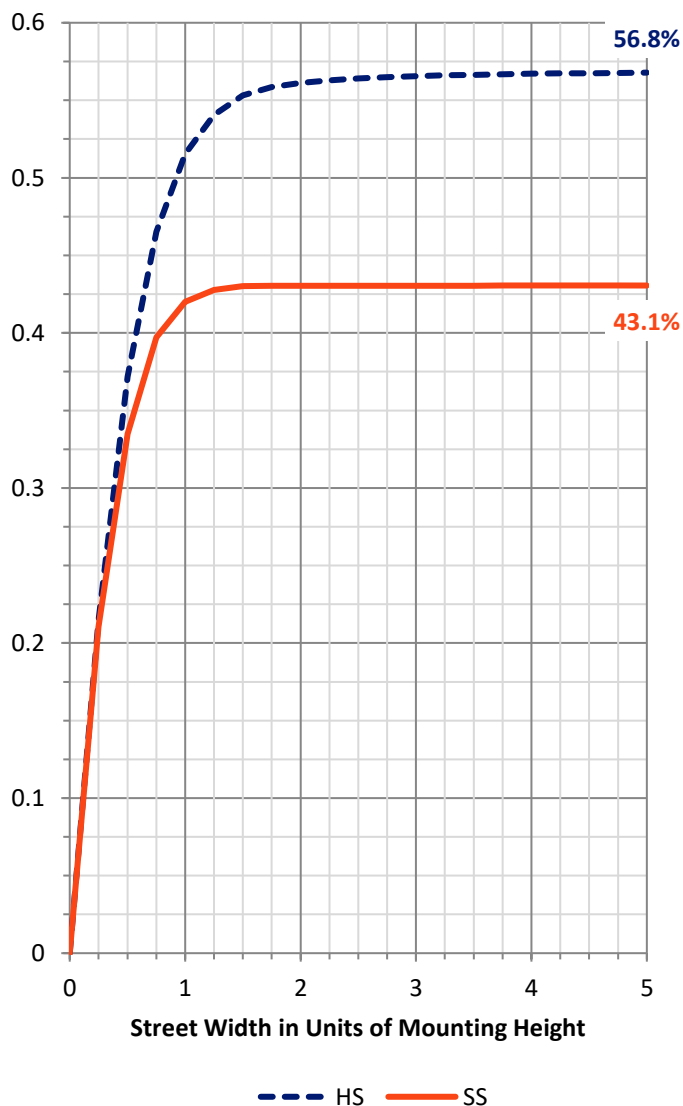
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5221.3	0.0	5221.3
	% Fixture	57.2	0.0	57.2
Street Side	Lumens	3902.2	0.0	3902.2
	% Fixture	42.8	0.0	42.8
Total	Lumens	9123.5	0.0	9123.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	762.4	8.4
10°-20°	2021.6	22.2
20°-30°	2312.3	25.3
30°-40°	1981.6	21.7
40°-50°	1310.3	14.4
50°-60°	571.8	6.3
60°-70°	112.3	1.2
70°-80°	40.5	0.4
80°-90°	10.8	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°	9123.5	100.0
0°-180°	9123.5	100.0



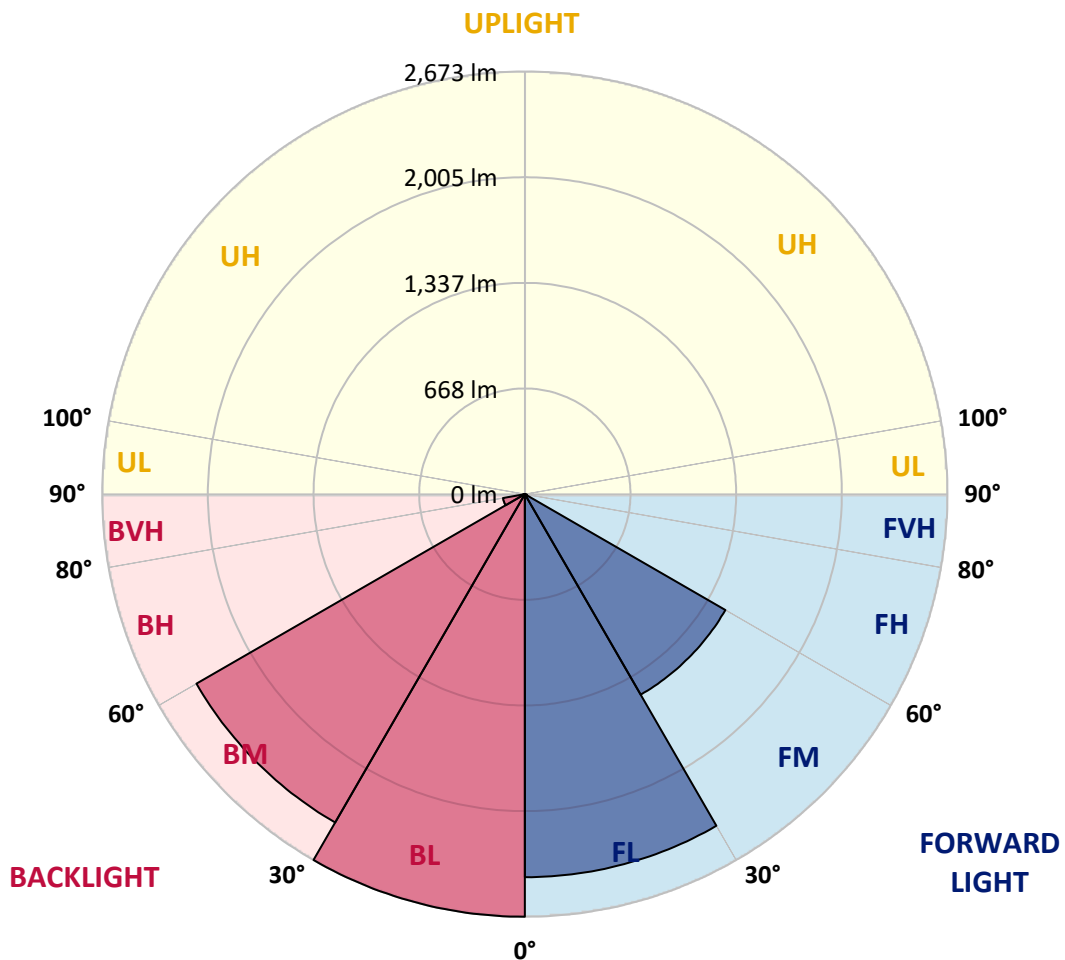
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2423.0	26.6			
FM (30°-60°)	1465.0	16.1			
FH (60°-80°)	12.4	0.1			G0/660
FVH (80°-90°)	1.8	0.0			G0/10
BL (0°-30°)	2673.3	29.3	B4/5000		
BM (30°-60°)	2398.5	26.3	B2/2500		
BH (60°-80°)	140.5	1.5	B1/500		G1/500
BVH (80°-90°)	9.0	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°	8094.9	8094.9	8094.9	8094.9	8094.9	8094.9	8094.9	8094.9	8094.9	8094.9
2.5°	8083.2	8102.6	8028.9	8061.9	8075.5	8058.0	8122.0	8102.6	8118.2	8069.7
5°	8083.2	8102.6	8017.3	8032.8	8036.7	8003.7	8073.5	8050.3	8052.2	8001.8
7.5°	8032.8	8056.1	7978.5	7990.2	7992.1	7964.9	8025.1	7992.1	7980.5	7928.1
10°	7897.1	7910.6	7840.8	7869.9	7897.1	7871.9	7924.2	7887.4	7887.4	7840.8
12.5°	7681.8	7707.0	7629.4	7664.3	7687.6	7658.5	7718.6	7705.1	7707.0	7660.5
15°	7290.0	7202.8	7295.9	7365.7	7367.6	7361.8	7418.0	7404.5	7414.2	7344.3
17.5°	5385.6	5364.3	5472.9	6297.1	6909.9	6993.3	7003.0	6929.3	6896.4	6828.5
20°	4990.0	5005.5	4982.2	4986.1	5469.0	6471.6	6411.5	6229.2	6145.8	6077.9
22.5°	4701.0	4675.8	4660.3	4650.6	4664.2	5317.7	5750.2	5474.8	5430.2	5397.2
25°	4386.8	4375.2	4355.8	4351.9	4344.2	4233.6	4856.2	4881.4	4809.6	4768.9
27.5°	4094.0	4086.2	4064.9	4063.0	3973.7	3706.1	3774.0	4373.3	4353.9	4338.3
30°	3781.7	3766.2	3754.6	3754.6	3485.0	3209.6	3099.1	3812.8	3812.8	3799.2
32.5°	3442.4	3428.8	3432.7	3386.1	3064.2	2812.1	2637.5	3291.1	3494.7	3483.1
35°	2104.2	2100.3	2494.0	3011.8	2633.6	2404.8	2393.2	2815.9	3112.7	3143.7
37.5°	1873.4	1861.8	1867.6	1900.6	2255.5	2164.3	2160.4	2232.2	2649.2	2664.7
40°	1681.4	1673.7	1667.8	1549.5	1437.1	1931.6	1918.0	1871.5	2263.2	2290.4
42.5°	1499.1	1491.4	1491.4	1324.6	1142.3	1588.3	1594.2	1539.9	1908.3	1918.0
45°	1311.0	1305.2	1272.2	1056.9	1004.6	1055.0	1320.7	1258.6	1514.6	1615.5
47.5°	618.7	614.8	890.2	878.5	874.7	843.6	1008.5	1043.4	1202.4	1303.2
50°	496.5	492.6	469.3	413.1	719.5	640.0	727.3	802.9	853.3	946.4
52.5°	411.1	407.3	358.8	318.1	399.5	467.4	434.4	537.2	535.3	636.1
55°	269.6	250.2	275.4	259.9	209.5	339.4	331.6	407.3	397.6	484.8
57.5°	5.8	5.8	13.6	147.4	131.9	143.5	190.1	232.7	261.8	287.0
60°	1.9	1.9	3.9	7.8	54.3	60.1	73.7	85.3	120.2	149.3
62.5°	0.0	0.0	1.9	3.9	7.8	31.0	34.9	40.7	56.2	77.6
65°	0.0	0.0	0.0	1.9	3.9	7.8	11.6	25.2	34.9	44.6
67.5°	0.0	0.0	0.0	1.9	1.9	3.9	7.8	11.6	15.5	31.0
70°	0.0	0.0	0.0	1.9	1.9	3.9	5.8	7.8	11.6	15.5
72.5°	0.0	0.0	0.0	1.9	1.9	5.8	3.9	5.8	7.8	9.7
75°	0.0	0.0	0.0	1.9	1.9	1.9	3.9	5.8	5.8	7.8
77.5°	0.0	0.0	0.0	1.9	3.9	3.9	3.9	3.9	3.9	5.8
80°	0.0	0.0	0.0	1.9	1.9	3.9	5.8	7.8	3.9	3.9
82.5°	0.0	0.0	0.0	3.9	1.9	7.8	11.6	9.7	3.9	1.9
85°	0.0	0.0	0.0	1.9	7.8	9.7	9.7	5.8	1.9	1.9
87.5°	0.0	0.0	0.0	1.9	1.9	3.9	5.8	5.8	1.9	1.9
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°
8094.9	0°	8094.9	8094.9	8094.9	8094.9	8094.9	8094.9	8094.9	8094.9	8094.9
8065.8	2.5°	8021.2	8096.8	8164.7	8122.0	8106.5	8075.5	8052.2	8027.0	8025.1
7996.0	5°	7951.4	8023.1	8089.1	8038.6	8042.5	8027.0	8011.5	8005.7	8009.5
7924.2	7.5°	7891.2	7951.4	8023.1	7980.5	7992.1	7982.4	7974.6	7963.0	7980.5
7831.1	10°	7800.1	7854.4	7937.8	7897.1	7891.2	7881.5	7873.8	7852.5	7862.2
7662.4	12.5°	7600.3	7668.2	7763.2	7716.7	7732.2	7705.1	7693.4	7679.9	7681.8
7369.6	15°	7328.8	7381.2	7478.2	7441.3	7453.0	7435.5	7435.5	7435.5	7449.1
6838.2	17.5°	6855.6	6962.3	7115.5	7069.0	7086.4	7090.3	7086.4	7100.0	7117.4
6081.8	20°	6085.7	6268.0	6547.3	6638.4	6675.3	6677.2	6650.1	6683.0	6717.9
5374.0	22.5°	5377.8	5569.8	5816.1	6066.3	6221.5	6213.7	6217.6	6238.9	6275.8
4743.7	25°	4765.0	4949.2	5172.3	5395.3	5734.7	5804.5	5806.4	5825.8	5854.9
4313.1	27.5°	4322.8	4394.6	4598.2	4823.2	5187.8	5410.8	5399.2	5416.6	5447.7
3774.0	30°	3789.5	4064.9	4111.4	4249.1	4563.3	4972.5	4974.5	4993.8	5024.9
3455.9	32.5°	3446.2	3628.5	3772.1	3775.9	4043.6	4464.4	4547.8	4567.2	4588.5
3126.2	35°	3124.3	3145.6	3339.6	3393.9	3549.0	3966.0	4113.4	4125.0	4159.9
2658.9	37.5°	2703.5	2829.5	2883.8	3077.8	3085.5	3423.0	3715.8	3704.2	3731.3
2288.4	40°	2317.5	2437.8	2575.5	2717.0	2736.4	2988.6	3312.4	3324.1	3335.7
1898.6	42.5°	1914.1	2067.4	2208.9	2304.0	2435.8	2581.3	2889.6	2943.9	2971.1
1627.1	45°	1656.2	1698.9	1867.6	2007.2	2141.1	2208.9	2497.9	2596.8	2614.3
1287.7	47.5°	1305.2	1448.7	1563.1	1681.4	1848.2	1908.3	2117.8	2255.5	2269.0
956.1	50°	1008.5	1111.3	1268.3	1375.0	1568.9	1601.9	1745.4	1923.8	1941.3
640.0	52.5°	721.4	861.1	1014.3	1117.1	1303.2	1345.9	1452.6	1623.2	1634.9
490.7	55°	517.8	609.0	735.0	882.4	1018.2	1113.2	1186.9	1349.8	1365.3
321.9	57.5°	353.0	438.3	490.7	638.0	719.5	822.3	882.4	1006.5	1018.2
153.2	60°	168.7	209.5	250.2	323.9	376.2	463.5	502.3	552.7	566.3
93.1	62.5°	108.6	128.0	162.9	193.9	244.4	298.7	314.2	356.8	372.4
58.2	65°	71.8	91.1	128.0	135.8	186.2	228.8	248.2	279.3	296.7
34.9	67.5°	40.7	64.0	95.0	112.5	147.4	188.1	209.5	236.6	252.1
23.3	70°	27.2	52.4	75.6	93.1	116.4	151.3	178.4	201.7	211.4
11.6	72.5°	15.5	33.0	52.4	73.7	93.1	126.1	151.3	170.7	112.5
7.8	75°	9.7	25.2	44.6	62.1	77.6	100.8	122.2	120.2	50.4
5.8	77.5°	7.8	19.4	38.8	52.4	64.0	69.8	87.3	98.9	38.8
3.9	80°	5.8	15.5	34.9	44.6	25.2	50.4	67.9	73.7	27.2
3.9	82.5°	3.9	9.7	29.1	31.0	17.5	36.8	54.3	48.5	19.4
1.9	85°	1.9	5.8	9.7	17.5	15.5	17.5	13.6	19.4	13.6
1.9	87.5°	1.9	3.9	7.8	7.8	7.8	5.8	7.8	7.8	7.8
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
8094.9
8071.6
8058.0
8028.9
7908.7
7738.0
7454.9
7175.6
6741.2
6281.6
5905.3
5476.7
5079.2
4637.0
4196.8
3764.3
3372.5
3009.9
2656.9
2302.0
1966.5
1656.2
1378.9
1041.4
581.8
376.2
296.7
250.2
209.5
91.1
50.4
38.8
29.1
19.4
13.6
7.8
0.0

(END OF REPORT)