

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: P480006

Luminaire Tested: **IFLD-S-SA6C-727-U-SL2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480006
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6C-727-U-SL2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens
Light Source: (96) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

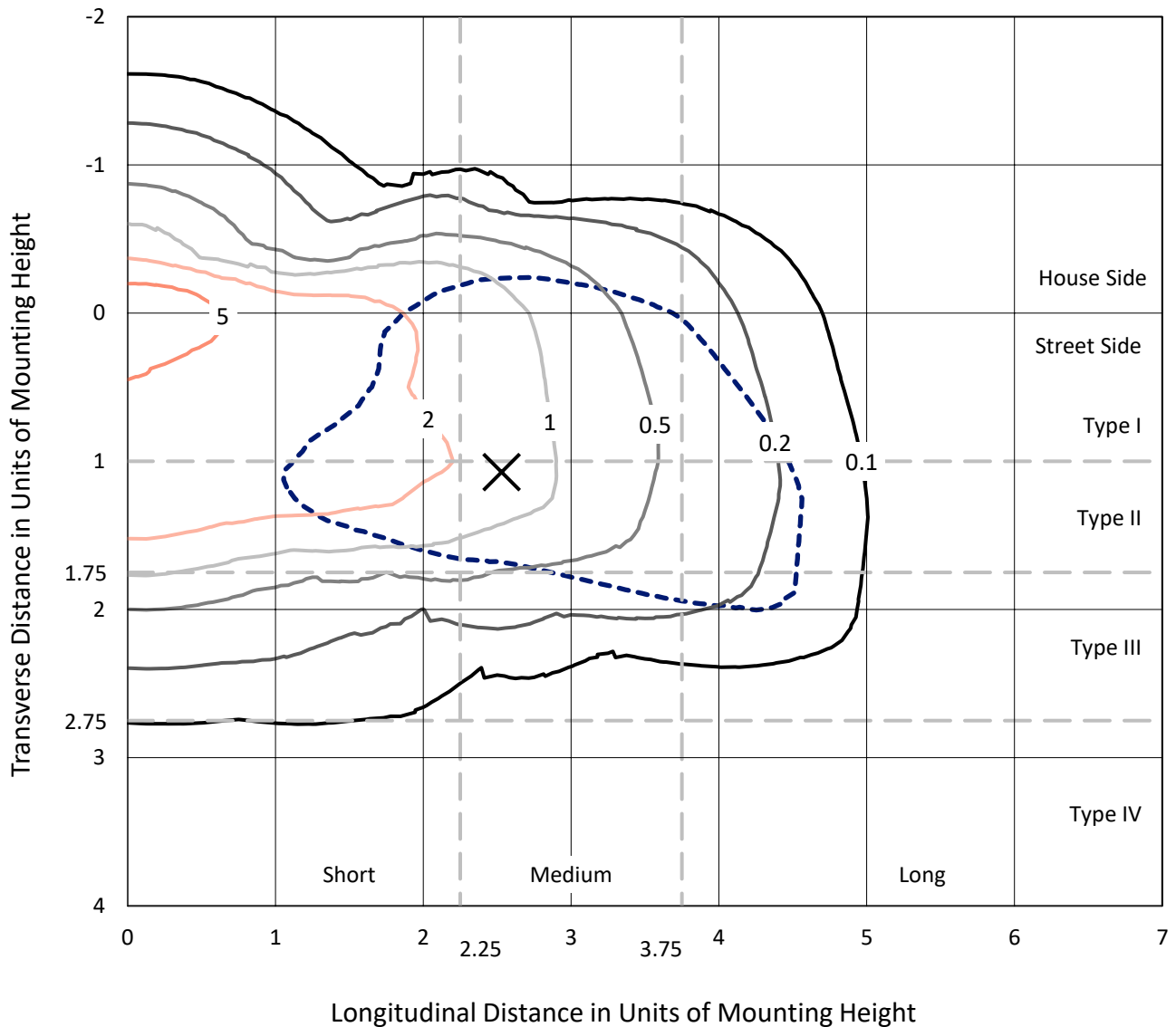
Lumens per Lamp: N/A
Luminaire Lumens: 34647.6 lumens
Efficiency: N/A
Efficacy: 107.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

Input Watts (W): 321.5
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: 24 FT

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Iso-Footcandle Lines of Horizontal Illumination

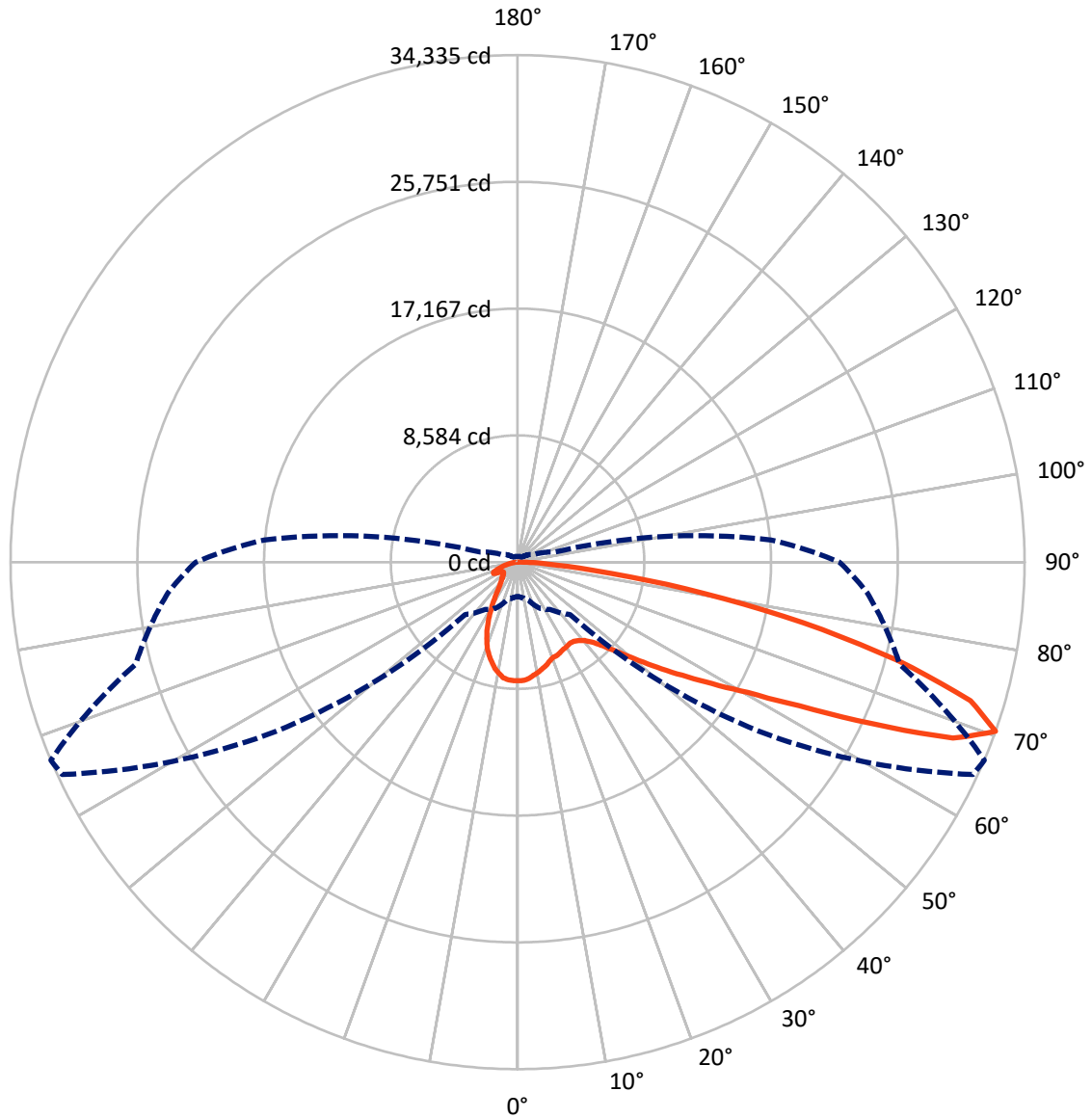
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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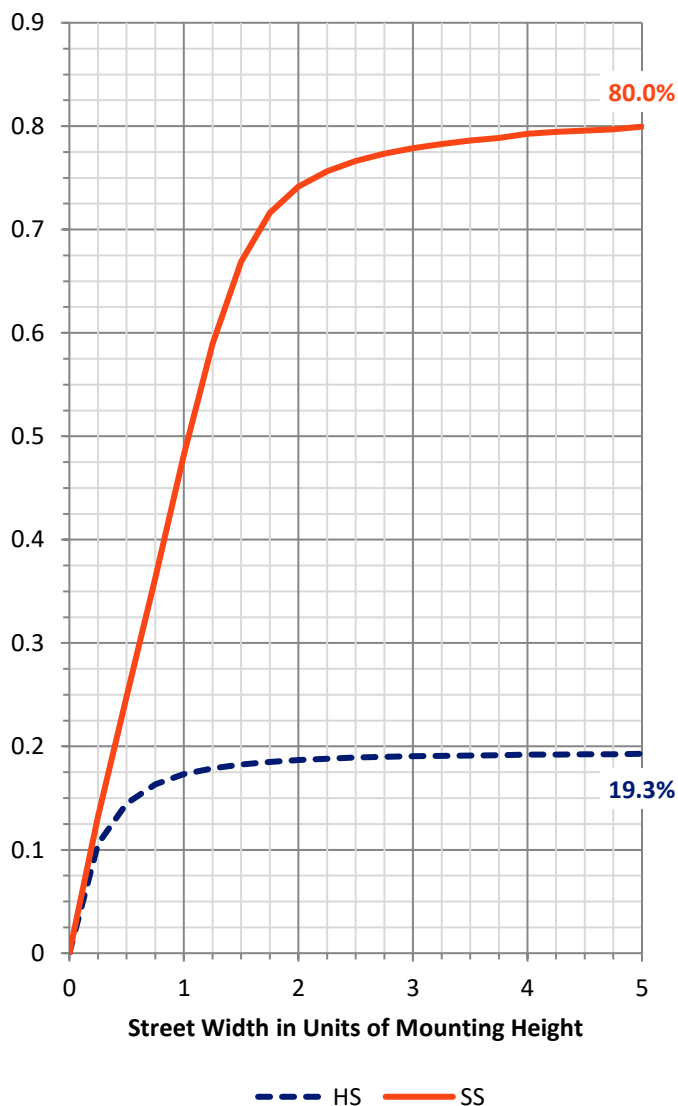
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6747.9	0.0	6747.9
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	27899.6	0.0	27899.6
	% Fixture	80.5	0.0	80.5
Total	Lumens	34647.6	0.0	34647.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	699.8	2.0
10°-20°	1676.1	4.8
20°-30°	2263.4	6.5
30°-40°	3028.7	8.7
40°-50°	4453.6	12.9
50°-60°	6942.0	20.0
60°-70°	8551.4	24.7
70°-80°	6042.3	17.4
80°-90°	990.4	2.9
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°	34647.6	100.0
0°-180°	34647.6	100.0

Coefficient of Utilization

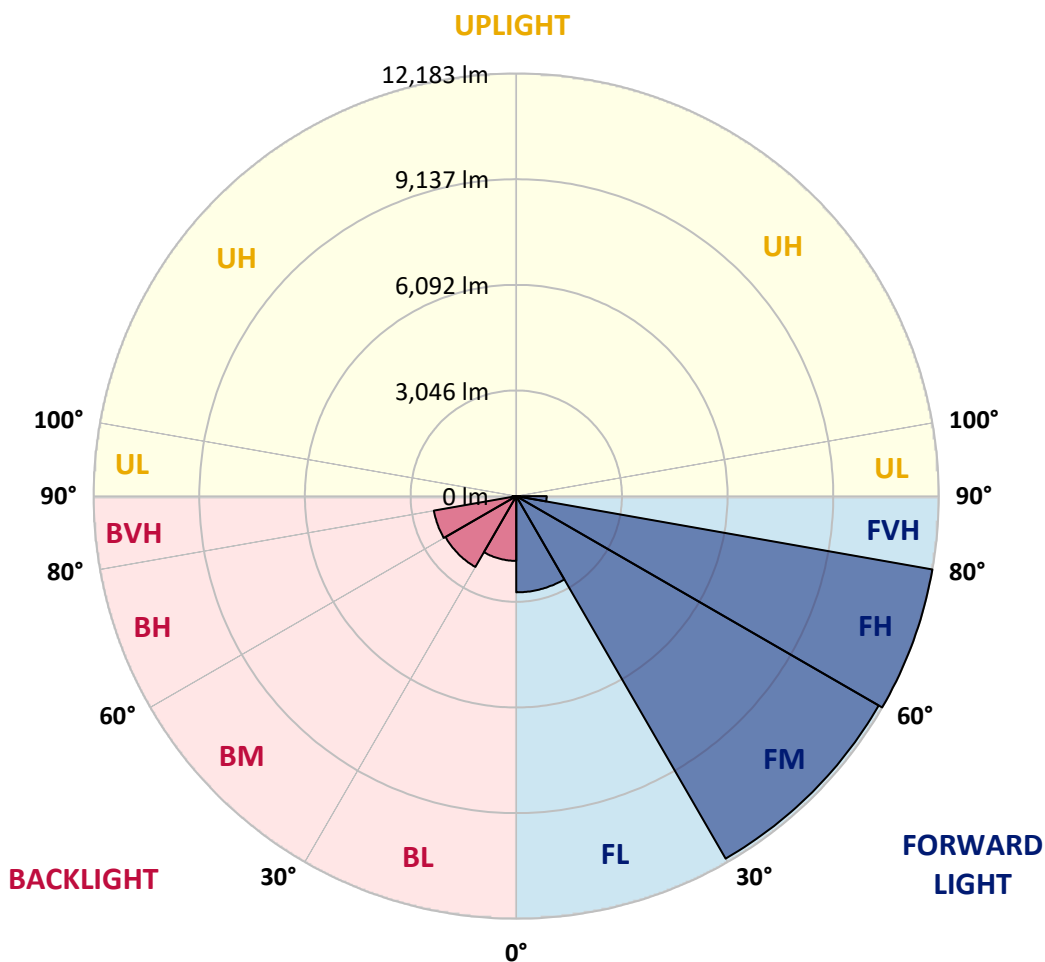


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2773.3	8.0			
FM (30°-60°)	12067.0	34.8			
FH (60°-80°)	12183.2	35.2			G5
FVH (80°-90°)	876.1	2.5			G5
BL (0°-30°)	1866.0	5.4	B3/2500		
BM (30°-60°)	2357.2	6.8	B2/2500		
BH (60°-80°)	2410.5	7.0	B3/2500		G3/2500
BVH (80°-90°)	114.2	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	8020.8	8020.8	8020.8	8020.8	8020.8	8020.8	8020.8	8020.8	8020.8	8020.8	8020.8
2.5°	7468.4	7552.8	7583.5	7629.5	7748.5	7836.7	7890.4	7951.8	8024.6	8086.0	8124.4
5°	6946.8	6992.8	7065.7	7115.5	7265.1	7503.0	7664.1	7924.9	7917.2	8013.1	8158.9
7.5°	6440.4	6486.5	6521.0	6620.7	6835.5	7050.3	7345.7	7767.6	7736.9	7959.4	8185.7
10°	6125.9	6091.4	6102.9	6271.6	6440.4	6682.1	7054.2	7483.8	7595.0	7940.2	8262.5
12.5°	5830.5	5792.2	5884.2	5991.6	6198.8	6417.4	6862.4	7249.8	7418.6	7871.2	8297.0
15°	5646.4	5619.5	5734.6	5780.7	6026.1	6287.0	6601.5	7073.3	7257.5	7786.8	8243.3
17.5°	5542.8	5565.8	5608.0	5707.8	5865.0	6087.5	6432.7	6954.4	7035.0	7683.2	8231.8
20°	5562.0	5588.9	5592.7	5634.9	5742.3	5914.9	6267.8	6827.8	6881.5	7664.1	8262.5
22.5°	5715.4	5677.1	5692.4	5665.6	5696.3	5830.5	6141.2	6659.1	6866.2	7503.0	8197.2
25°	5945.6	5891.9	5884.2	5792.2	5734.6	5773.0	6118.2	6616.9	6751.1	7453.1	8193.4
27.5°	6352.2	6271.6	6271.6	6133.6	5899.6	5838.2	6053.0	6547.8	6666.7	7407.1	8105.2
30°	6743.5	6743.5	6747.3	6551.7	6290.8	5987.8	6079.8	6521.0	6597.7	7269.0	7986.3
32.5°	7219.1	7207.6	7188.4	7092.5	6689.8	6237.1	6210.3	6486.5	6524.8	7222.9	7951.8
35°	7683.2	7652.6	7802.2	7717.8	7307.3	6724.3	6344.5	6501.8	6586.2	7153.9	7844.3
37.5°	8032.3	8051.5	8362.2	8415.9	8063.0	7276.6	6724.3	6655.2	6735.8	7253.6	7844.3
40°	8484.9	8561.7	8853.2	9033.5	8818.7	8005.5	7326.5	6912.2	6969.8	7476.1	8013.1
42.5°	9079.5	9144.7	9516.8	9750.8	9689.4	8933.7	7921.1	7449.3	7403.2	7848.2	8266.3
45°	9865.8	9877.4	10253.3	10575.5	10702.1	9904.2	8864.7	8128.2	8089.8	8488.8	8730.4
47.5°	10801.8	10790.3	11024.3	11369.5	11710.9	11062.6	9950.2	9160.0	9022.0	9405.5	9501.4
50°	11707.1	11657.2	11710.9	12152.0	12808.0	12512.6	11269.8	10422.1	10284.0	10494.9	10659.9
52.5°	12205.7	12267.1	12121.3	12704.4	13974.1	14227.2	13018.9	11929.5	11810.6	11914.2	12201.9
55°	11856.7	11983.2	11887.4	12439.7	14484.2	16317.8	15282.1	13674.9	13521.4	13483.1	13954.9
57.5°	10372.2	10602.3	10621.5	11496.1	14307.8	17936.5	18465.9	15734.7	15504.6	15113.3	15600.5
60°	7963.3	8193.4	8369.9	9405.5	12796.5	18903.2	22156.0	18665.3	17905.8	16893.2	17184.7
62.5°	5581.2	5738.5	5914.9	6551.7	9865.8	18335.4	25347.4	22792.7	21392.6	18768.9	19133.3
65°	4066.0	4188.8	4369.1	4745.0	6060.7	15170.9	26828.1	27695.0	26367.7	21154.8	21108.8
67.5°	3061.0	3137.7	3375.6	3977.8	4200.3	9371.0	25293.7	32873.4	31799.3	23805.4	22696.8
70°	2316.9	2382.1	2604.6	3429.3	3924.1	5025.0	19954.2	34028.0	34334.8	26778.2	23763.2
72.5°	1595.7	1668.6	1917.9	2857.7	3736.1	3985.5	12524.1	30913.3	32075.5	28001.8	22620.1
75°	978.1	1028.0	1173.8	2167.3	3709.3	3897.2	6893.1	25332.1	26563.4	25872.9	19789.2
77.5°	690.5	686.6	713.5	1269.7	3214.5	3920.3	4250.1	18561.8	19758.5	19068.1	13429.4
80°	502.5	506.3	533.2	759.5	2182.6	3985.5	3348.7	12432.0	12788.8	9942.6	5297.3
82.5°	303.0	318.4	383.6	514.0	1311.9	3598.0	3095.5	6908.4	6463.4	3191.4	1457.6
85°	161.1	161.1	226.3	326.0	698.1	2685.1	2980.5	3287.3	2754.2	989.7	540.9
87.5°	38.4	38.4	65.2	130.4	280.0	1285.0	2033.0	1308.0	1047.2	333.7	222.5
90°	0.0	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°	180°
0°	8020.8	8020.8	8020.8	8020.8	8020.8	8020.8	8020.8	8020.8	8020.8	8020.8	8020.8
2.5°	8109.0	8063.0	8120.5	8005.5	7913.4	7917.2	7775.3	7767.6	7748.5	7648.7	7683.2
5°	8201.1	8162.7	8097.5	7970.9	7767.6	7564.3	7441.6	7284.3	7219.1	7184.6	7199.9
7.5°	8289.3	8220.3	8032.3	7855.9	7541.3	7157.7	6935.2	6724.3	6455.8	6425.1	6371.4
10°	8312.3	8166.6	7924.9	7549.0	7130.9	6705.1	6198.8	5807.5	5600.4	5439.3	5377.9
12.5°	8277.8	8216.4	7752.3	7269.0	6636.0	5968.6	5377.9	4825.5	4441.9	4242.5	4188.8
15°	8274.0	8166.6	7560.5	6843.2	6033.8	5163.1	4323.0	3659.4	3256.7	3091.7	3091.7
17.5°	8277.8	8020.8	7334.2	6413.6	5324.2	4146.6	3222.1	2677.4	2455.0	2431.9	2451.1
20°	8201.1	7913.4	7096.4	5907.2	4434.3	3114.7	2339.9	2117.4	2117.4	2148.1	2159.6
22.5°	8132.0	7752.3	6720.4	5282.0	3529.0	2255.5	1902.6	1837.4	1910.3	1964.0	1987.0
25°	8036.1	7618.0	6336.9	4633.7	2685.1	1818.2	1653.3	1668.6	1737.6	1833.5	1825.9
27.5°	7898.0	7384.0	5880.4	3881.9	1998.5	1568.9	1526.7	1534.3	1607.2	1649.4	1641.8
30°	7740.8	7146.2	5458.4	3133.9	1584.2	1438.5	1434.6	1453.8	1465.3	1488.3	1484.5
32.5°	7541.3	6831.7	5009.6	2435.8	1426.9	1365.6	1350.2	1338.7	1350.2	1346.4	1334.9
35°	7399.4	6662.9	4553.2	1856.6	1338.7	1300.4	1288.9	1269.7	1254.3	1231.3	1227.5
37.5°	7361.0	6494.1	4073.7	1515.2	1269.7	1250.5	1212.1	1177.6	1158.4	1146.9	1139.3
40°	7338.0	6382.9	3605.7	1331.0	1212.1	1193.0	1146.9	1100.9	1081.7	1070.2	1074.0
42.5°	7418.6	6321.5	3130.1	1239.0	1162.3	1127.7	1077.9	1024.2	1020.3	1012.7	1024.2
45°	7702.4	6398.2	2688.9	1173.8	1112.4	1054.9	989.7	962.8	959.0	951.3	959.0
47.5°	8346.8	6590.0	2313.0	1131.6	1058.7	1008.8	939.8	901.4	897.6	893.8	893.8
50°	9236.8	7180.7	1998.5	1081.7	1024.2	955.1	889.9	847.7	840.1	824.7	824.7
52.5°	10633.0	8174.2	1810.5	1054.9	962.8	905.3	836.2	790.2	771.0	755.7	755.7
55°	12205.7	9405.5	1776.0	1008.8	897.6	843.9	782.5	736.5	717.3	698.1	690.5
57.5°	13997.1	11035.8	2021.5	978.1	851.6	782.5	713.5	671.3	655.9	636.8	629.1
60°	15665.7	12662.2	2784.8	932.1	809.4	725.0	655.9	613.7	594.6	575.4	575.4
62.5°	17595.1	14676.0	4077.5	932.1	771.0	663.6	594.6	563.9	552.4	533.2	529.3
65°	19877.5	16758.9	5021.1	989.7	759.5	609.9	537.0	506.3	494.8	483.3	479.5
67.5°	21615.1	17955.7	4319.2	1143.1	809.4	563.9	479.5	460.3	452.6	441.1	433.5
70°	21799.2	17226.9	2604.6	1235.1	859.2	517.8	429.6	410.4	410.4	398.9	391.3
72.5°	20146.0	15285.9	1753.0	1100.9	778.7	464.1	379.8	364.4	356.7	349.1	345.2
75°	16858.6	12965.2	1384.7	878.4	598.4	383.6	329.9	314.5	303.0	299.2	291.5
77.5°	11323.5	8427.4	1024.2	686.6	441.1	310.7	276.2	260.8	249.3	245.5	234.0
80°	4349.9	3210.6	659.8	498.7	310.7	245.5	218.6	203.3	195.6	184.1	176.4
82.5°	1281.2	1039.5	368.2	306.9	199.5	168.8	157.3	145.8	134.3	122.7	118.9
85°	529.3	475.6	226.3	161.1	122.7	99.7	92.1	80.6	69.0	61.4	53.7
87.5°	245.5	203.3	103.6	61.4	42.2	23.0	11.5	3.8	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)