

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: P480679

Luminaire Tested: **IFLD-L-SA7C-830-U-SL3**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480679
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7C-830-U-SL3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens
Light Source: (112) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

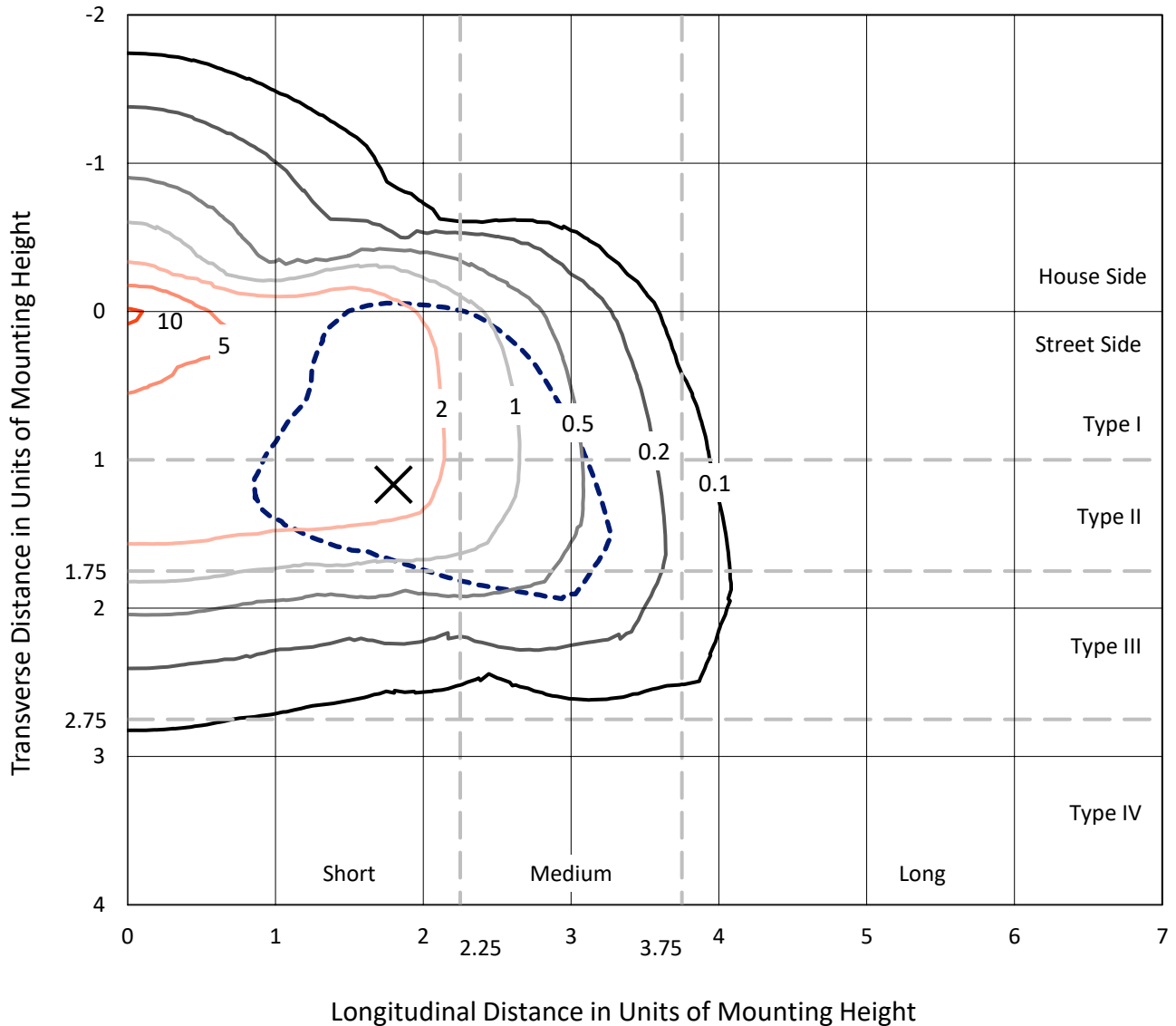
Lumens per Lamp: N/A
Luminaire Lumens: 34757.7 lumens
Efficiency: N/A
Efficacy: 94.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 369
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

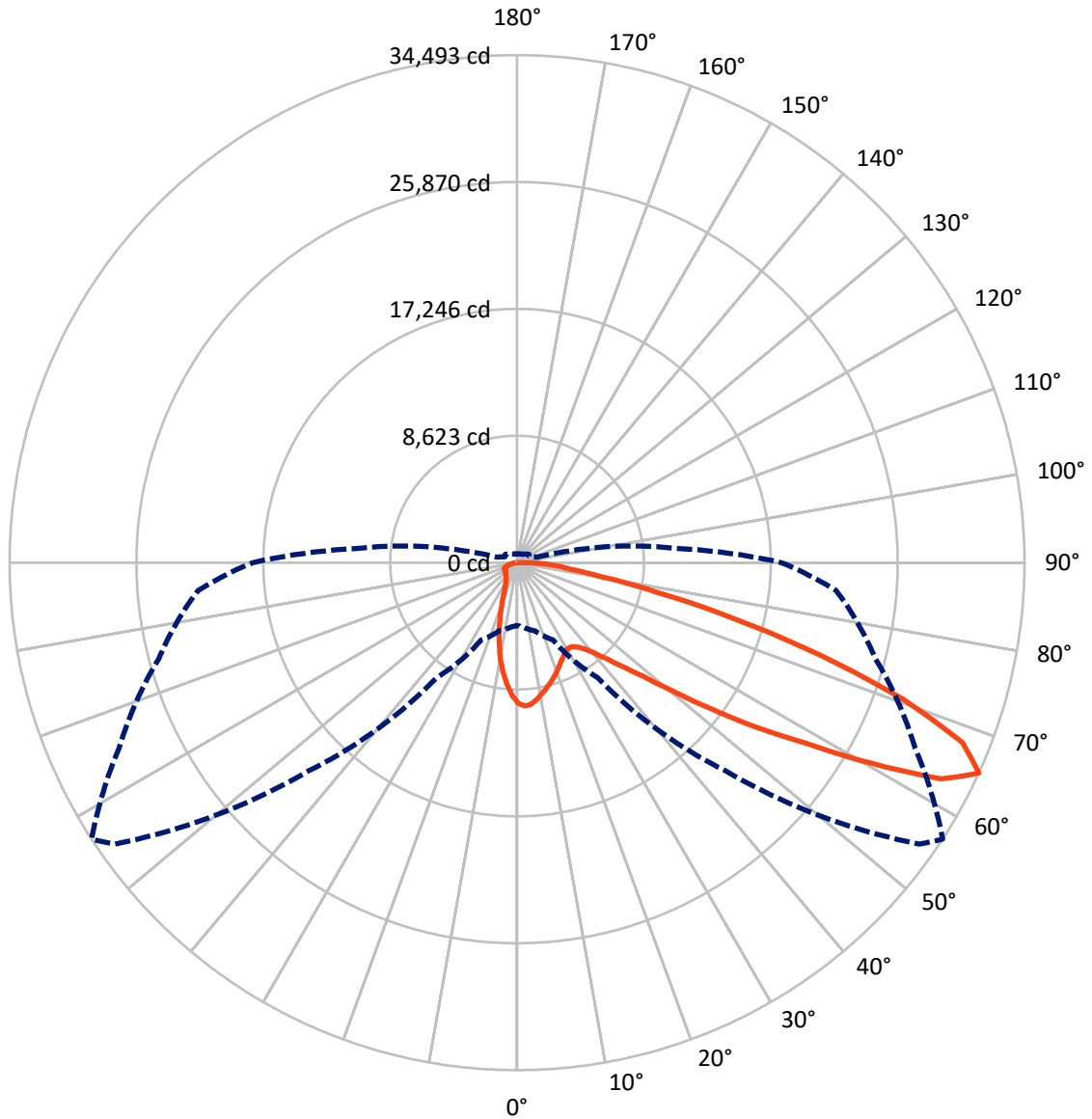
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 10.6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5330.4	0.0	5330.4
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	29427.3	0.0	29427.3
	% Fixture	84.7	0.0	84.7
Total	Lumens	34757.7	0.0	34757.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	800.4	2.3
10°-20°	1722.6	5.0
20°-30°	2227.1	6.4
30°-40°	2997.0	8.6
40°-50°	4778.9	13.7
50°-60°	8440.6	24.3
60°-70°	9285.8	26.7
70°-80°	3884.4	11.2
80°-90°	620.8	1.8
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°	34757.7	100.0
0°-180°	34757.7	100.0

Coefficient of Utilization



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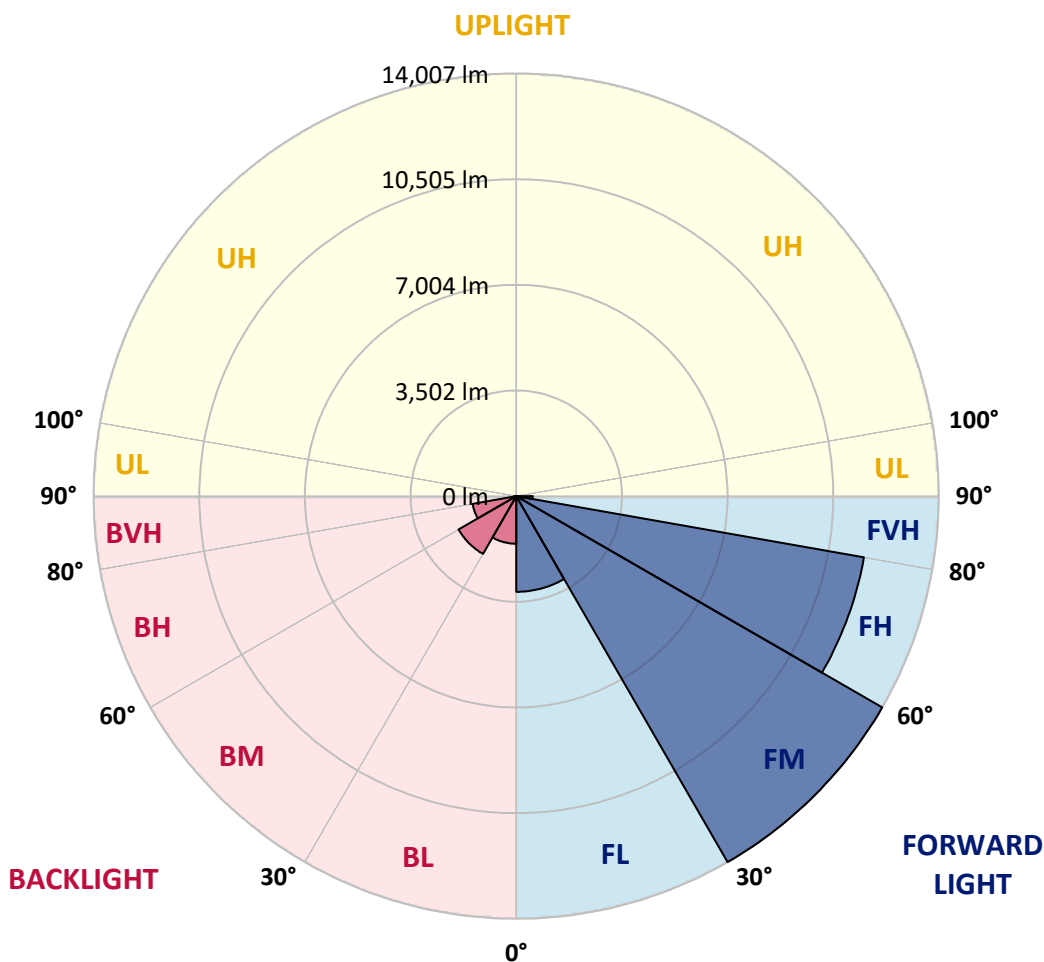
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3171.5	9.1			
FM (30°-60°)	14007.3	40.3			
FH (60°-80°)	11700.5	33.7			G4/12000
FVH (80°-90°)	548.0	1.6			G4/750
BL (0°-30°)	1578.6	4.5	B3/2500		
BM (30°-60°)	2209.2	6.4	B2/2500		
BH (60°-80°)	1469.8	4.2	B3/2500		G3/2500
BVH (80°-90°)	72.8	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-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	9557.9	9557.9	9557.9	9557.9	9557.9	9557.9	9557.9	9557.9	9557.9	9557.9	9557.9
2.5°	9816.0	9831.6	9831.6	9862.9	9757.3	9808.2	9800.3	9753.4	9769.1	9686.9	9604.8
5°	9538.3	9526.6	9589.2	9597.0	9679.1	9702.6	9722.1	9690.8	9698.7	9518.8	9440.6
7.5°	8826.6	8822.7	8928.2	9018.2	9190.3	9350.6	9456.2	9424.9	9467.9	9354.5	9170.7
10°	7981.8	8071.8	8181.3	8271.2	8588.0	8791.4	9065.1	9092.5	9256.8	9229.4	8897.0
12.5°	7348.3	7387.4	7469.5	7727.6	8017.0	8353.4	8744.4	8779.6	8940.0	9018.2	8728.8
15°	6828.2	6863.4	6969.0	7160.6	7485.2	7884.1	8380.7	8470.7	8791.4	8818.7	8509.8
17.5°	6448.8	6476.2	6546.6	6738.2	7004.2	7516.5	7985.8	8146.1	8568.5	8701.4	8283.0
20°	6300.2	6241.6	6280.7	6401.9	6667.8	7062.8	7669.0	7809.8	8349.5	8611.5	8067.9
22.5°	6233.7	6182.9	6206.4	6198.5	6409.7	6691.3	7328.7	7477.4	8142.2	8505.9	7876.3
25°	6284.6	6284.6	6261.1	6241.6	6265.0	6448.8	6961.1	7191.9	7864.5	8415.9	7680.7
27.5°	6558.3	6452.7	6464.5	6382.3	6358.9	6358.9	6796.9	6933.8	7774.6	8365.1	7520.4
30°	6734.3	6785.2	6789.1	6667.8	6546.6	6327.6	6644.4	6777.3	7700.3	8427.7	7426.5
32.5°	7184.1	7160.6	7094.1	7070.6	6890.7	6644.4	6718.7	6808.6	7657.3	8568.5	7453.9
35°	7633.8	7622.1	7626.0	7614.2	7426.5	7062.8	6918.1	7039.4	7735.5	8814.8	7547.8
37.5°	8099.2	8130.5	8263.4	8263.4	8064.0	7669.0	7477.4	7442.2	8021.0	9217.6	7770.7
40°	8564.5	8642.8	8810.9	9076.9	8795.3	8427.7	8118.7	8064.0	8365.1	9757.3	8306.4
42.5°	9010.4	9139.4	9471.8	9866.8	9773.0	9405.4	8994.7	8932.2	9072.9	10559.0	9053.4
45°	9581.3	9690.8	10214.9	10821.1	10950.1	10625.5	10144.5	10093.7	10085.8	11732.3	10081.9
47.5°	10449.5	10566.9	11090.9	11701.0	12099.9	12150.7	11611.0	11556.3	11368.6	13316.1	11587.6
50°	11536.7	11728.3	12170.3	12882.0	13460.8	14004.4	13851.9	13691.5	13323.9	15158.1	13496.0
52.5°	12330.6	12565.2	13163.6	14074.8	15095.5	15959.8	16507.3	16507.3	15662.6	17179.9	15791.6
55°	12541.8	12682.6	13437.3	14755.3	16503.4	18689.5	19835.3	19749.3	18447.0	19307.4	18462.7
57.5°	11701.0	11884.8	12799.9	14180.4	17242.5	21243.2	23139.9	23159.5	21489.6	21779.0	21098.5
60°	9385.8	9444.5	10523.8	12369.7	16530.7	23300.3	27652.9	27727.2	24950.6	23980.7	22439.9
62.5°	6487.9	6675.7	7489.1	9108.1	13695.5	23069.5	32005.6	32373.2	27723.3	25142.2	22651.1
65°	4270.5	4384.0	4818.0	5803.6	9534.4	19995.7	33358.7	34492.8	29843.0	25208.7	21767.2
67.5°	3097.3	3116.9	3245.9	3754.3	5729.3	14379.8	31047.5	32647.0	30636.8	24653.4	19694.5
70°	2502.9	2518.5	2565.5	2890.0	3699.6	8998.6	25322.1	27828.9	28255.2	22021.4	15862.0
72.5°	2033.6	2053.1	2111.8	2416.8	3050.4	5005.8	18517.4	21571.7	22983.5	16292.2	10543.4
75°	1599.5	1615.1	1755.9	2057.1	2866.6	3437.6	12283.7	15275.4	15467.0	9522.7	4935.4
77.5°	1095.0	1122.4	1294.5	1744.2	2698.4	3007.4	7657.3	9784.7	8779.6	3726.9	1697.3
80°	696.1	735.2	836.9	1321.8	2385.6	2870.5	4763.3	5842.7	3844.3	1274.9	817.3
82.5°	410.6	449.7	551.4	856.5	1873.3	2663.2	3355.4	3656.6	1802.9	653.1	492.8
85°	226.8	254.2	332.4	516.2	1098.9	2366.0	2686.7	2624.1	1032.4	348.1	308.9
87.5°	74.3	86.0	121.2	207.3	453.6	1114.6	1611.2	1513.5	535.8	160.3	121.2
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°	9557.9	9557.9	9557.9	9557.9	9557.9	9557.9	9557.9	9557.9	9557.9	9557.9	9557.9
2.5°	9550.1	9538.3	9362.3	9229.4	9002.6	8814.8	8740.5	8638.9	8634.9	8560.6	8541.1
5°	9319.3	9198.1	8928.2	8670.1	8267.3	7997.5	7751.1	7579.0	7508.6	7356.1	7320.9
7.5°	9022.1	8861.8	8447.2	7962.3	7489.1	7066.7	6683.5	6300.2	6085.1	6010.8	5928.7
10°	8713.2	8431.6	7817.6	7274.0	6613.1	5963.9	5361.6	4822.0	4528.7	4321.4	4231.4
12.5°	8466.8	8091.3	7309.2	6495.8	5623.7	4755.5	4055.5	3488.4	3156.0	2999.5	2929.2
15°	8189.1	7692.4	6753.9	5725.3	4638.2	3652.6	2968.3	2522.4	2389.5	2315.2	2303.4
17.5°	7895.8	7320.9	6151.6	4966.7	3676.1	2749.3	2307.3	2127.4	2068.8	2037.5	2021.9
20°	7622.1	6988.5	5533.7	4121.9	2878.3	2205.7	1998.4	1904.5	1900.6	1916.3	1912.4
22.5°	7234.9	6554.4	4923.6	3339.8	2299.5	1920.2	1787.2	1763.7	1787.2	1806.8	1814.6
25°	7015.9	6198.5	4243.2	2651.5	1900.6	1705.1	1662.1	1654.2	1689.4	1712.9	1709.0
27.5°	6789.1	5830.9	3609.6	2123.5	1666.0	1552.6	1544.7	1552.6	1587.8	1623.0	1619.1
30°	6613.1	5537.6	3015.2	1775.5	1486.1	1443.1	1435.2	1443.1	1462.6	1466.5	1466.5
32.5°	6468.4	5189.6	2510.7	1540.8	1376.6	1341.4	1349.2	1345.3	1349.2	1353.1	1357.0
35°	6382.3	4982.3	2096.2	1396.1	1286.6	1259.3	1255.4	1243.6	1247.5	1251.4	1247.5
37.5°	6566.2	4880.6	1767.7	1294.5	1224.1	1200.6	1192.8	1185.0	1173.2	1173.2	1173.2
40°	6843.8	4825.9	1568.2	1228.0	1177.1	1149.8	1126.3	1118.5	1118.5	1122.4	1126.3
42.5°	7395.2	4915.8	1431.3	1177.1	1118.5	1087.2	1063.7	1067.6	1079.4	1091.1	1083.3
45°	8193.0	5189.6	1368.8	1138.0	1083.3	1040.3	1024.6	1020.7	1032.4	1052.0	1067.6
47.5°	9237.2	5615.8	1345.3	1102.8	1059.8	1001.2	981.6	993.3	1009.0	1036.3	1024.6
50°	10946.2	6574.0	1364.9	1071.5	1024.6	981.6	958.1	946.4	958.1	977.7	985.5
52.5°	13179.2	8314.3	1439.2	1055.9	1001.2	966.0	926.8	907.3	919.0	934.7	934.7
55°	15850.3	10692.0	1646.4	1036.3	962.0	942.5	899.5	860.4	868.2	868.2	864.3
57.5°	18204.6	12487.0	1892.8	1009.0	938.6	911.2	856.5	809.5	801.7	805.6	809.5
60°	19260.5	12964.1	2010.1	1001.2	938.6	872.1	797.8	750.9	739.1	731.3	731.3
62.5°	19076.6	12139.0	1771.6	966.0	962.0	840.8	743.0	692.2	676.6	660.9	664.8
65°	17966.0	10961.8	1396.1	919.0	966.0	821.3	688.3	637.5	610.1	590.5	586.6
67.5°	15936.3	9358.4	1106.7	883.8	926.8	786.1	641.4	582.7	559.2	539.7	531.9
70°	12467.5	7336.6	962.0	836.9	833.0	700.0	586.6	535.8	500.6	477.1	477.1
72.5°	8083.5	4638.2	825.2	743.0	719.6	586.6	508.4	477.1	449.7	430.2	430.2
75°	3660.5	2154.8	664.8	621.8	586.6	469.3	430.2	414.5	391.1	371.5	371.5
77.5°	1314.0	919.0	496.7	488.8	438.0	363.7	348.1	336.3	320.7	301.1	301.1
80°	735.2	582.7	371.5	355.9	305.0	269.8	250.3	250.3	242.5	230.7	226.8
82.5°	465.4	379.3	273.8	238.6	199.4	179.9	172.1	168.2	164.3	148.6	144.7
85°	293.3	258.1	179.9	140.8	117.3	89.9	86.0	82.1	74.3	66.5	66.5
87.5°	133.0	148.6	70.4	43.0	31.3	19.6	11.7	3.9	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)