

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: P480878

Luminaire Tested: **IFLD-L-SA8B-735-U-SL4**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480878
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8B-735-U-SL4
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens
Light Source: (128) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

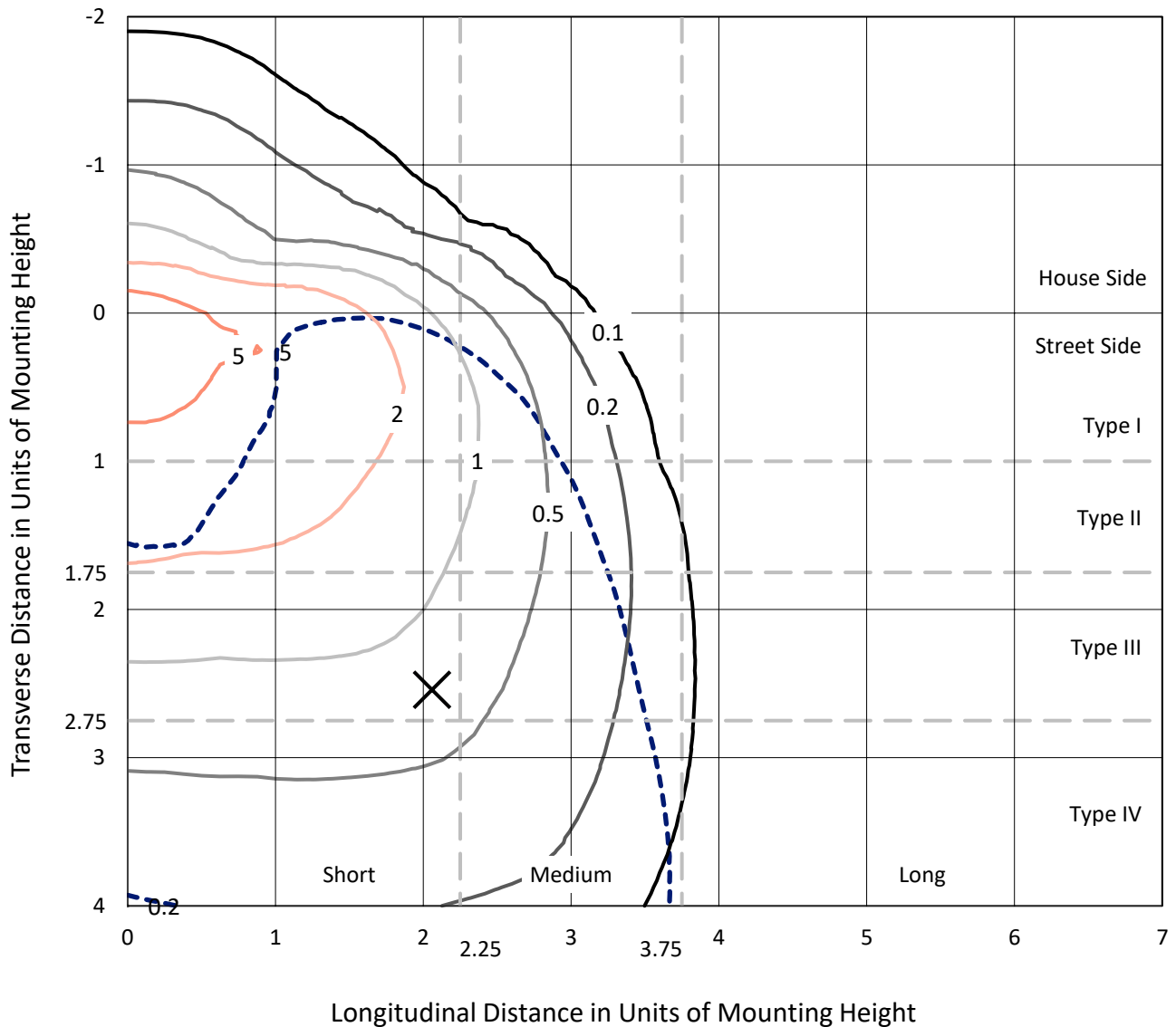
Lumens per Lamp: N/A
Luminaire Lumens: 38827.7 lumens
Efficiency: N/A
Efficacy: 121.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 320
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

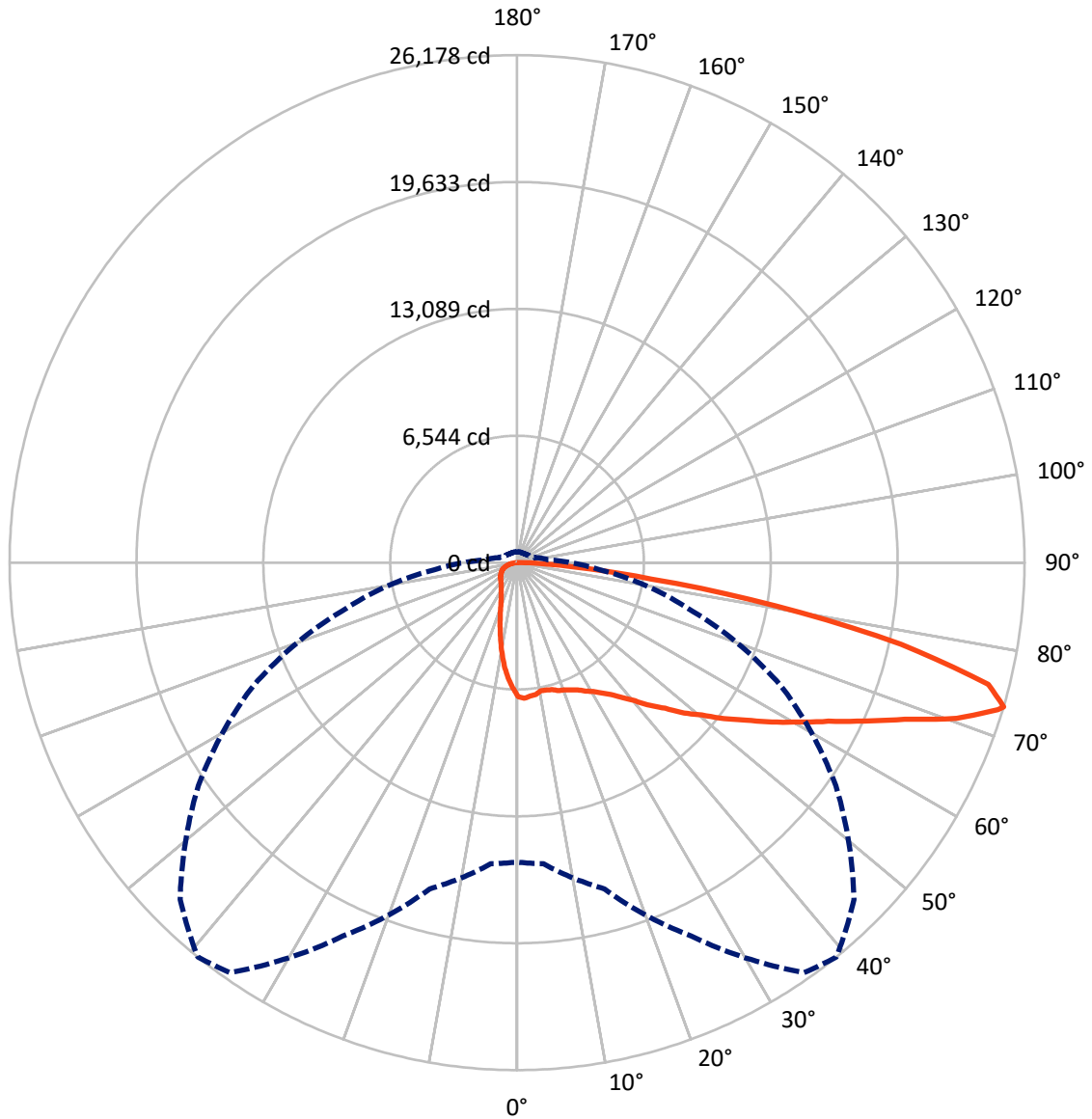
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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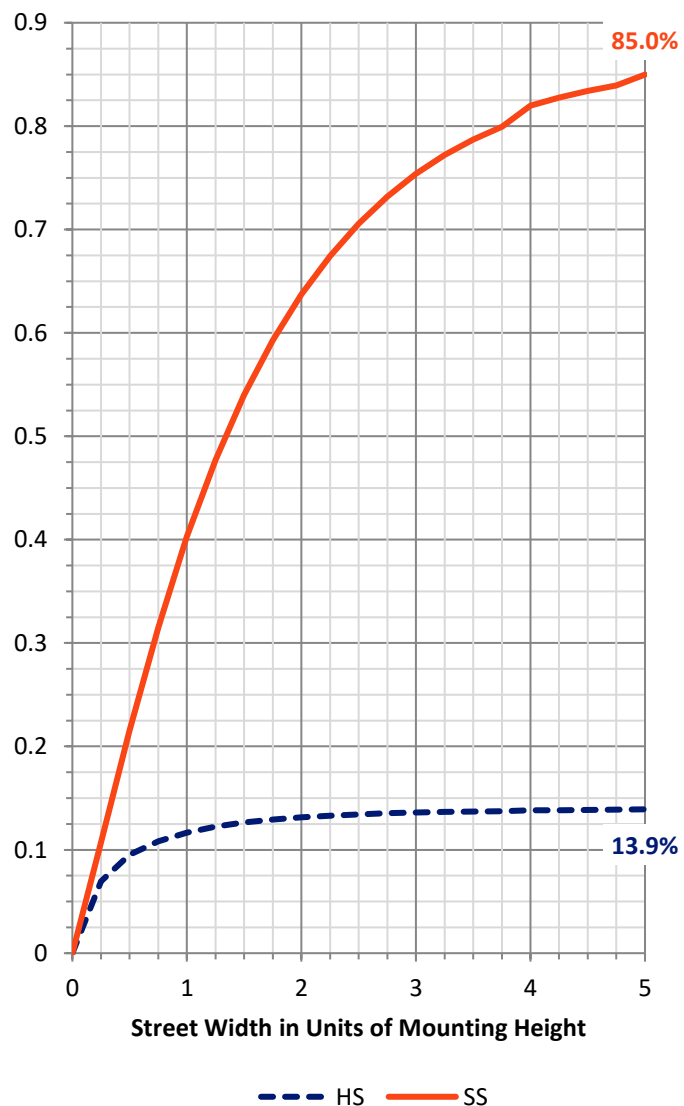
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5458.1	0.0	5458.1
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	33369.6	0.0	33369.6
	% Fixture	85.9	0.0	85.9
Total	Lumens	38827.7	0.0	38827.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	600.0	1.5
10°-20°	1525.2	3.9
20°-30°	2330.7	6.0
30°-40°	3398.3	8.8
40°-50°	5135.1	13.2
50°-60°	7436.0	19.2
60°-70°	9447.7	24.3
70°-80°	7658.9	19.7
80°-90°	1295.8	3.3
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°	38827.7	100.0
0°-180°	38827.7	100.0

Coefficient of Utilization



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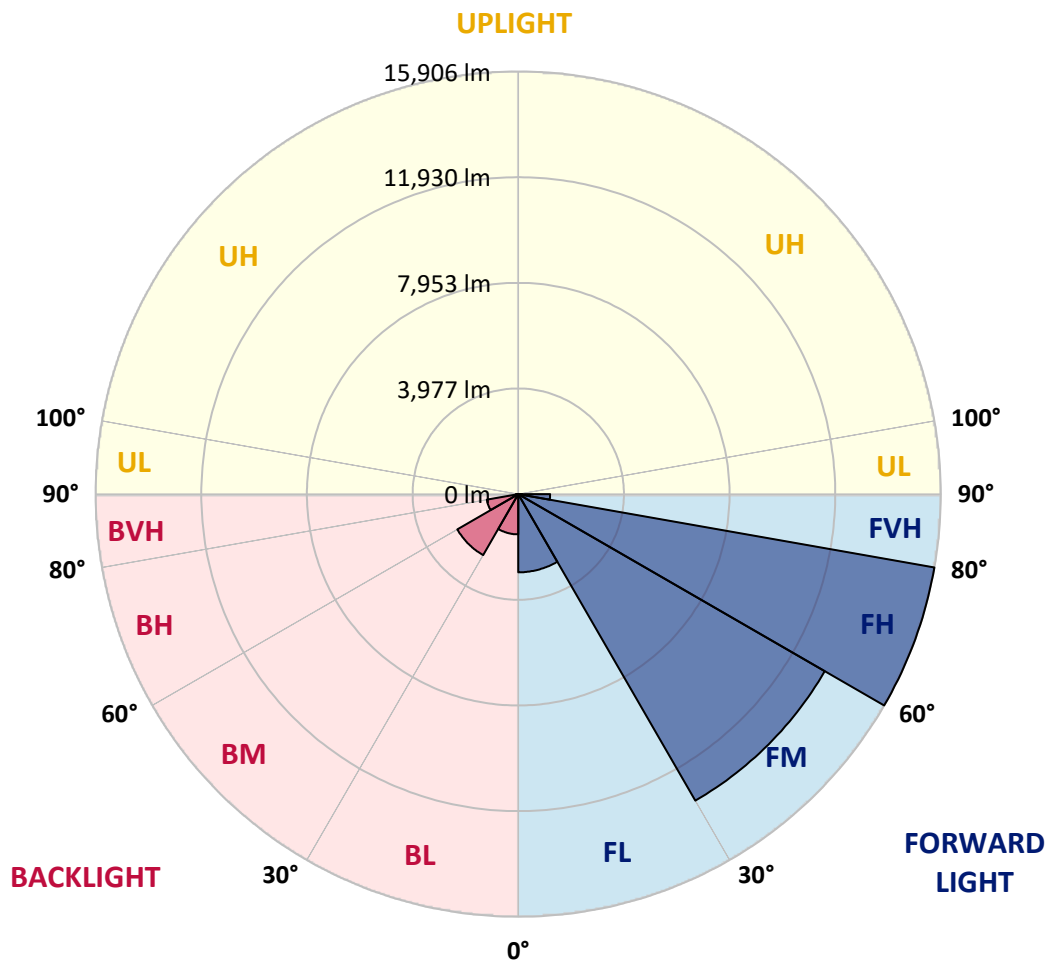
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2942.3	7.6			
FM (30°-60°)	13320.4	34.3			
FH (60°-80°)	15906.2	41.0			G5
FVH (80°-90°)	1200.8	3.1			G5
BL (0°-30°)	1513.6	3.9	B3/2500		
BM (30°-60°)	2649.0	6.8	B3/5000		
BH (60°-80°)	1200.4	3.1	B3/2500		G3/2500
BVH (80°-90°)	95.1	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-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	6911.6	6911.6	6911.6	6911.6	6911.6	6911.6	6911.6	6911.6	6911.6	6911.6	6911.6
2.5°	7076.6	7002.8	7015.8	6989.8	7015.8	7007.1	6994.1	6928.9	6994.1	6928.9	6911.6
5°	6981.1	6981.1	7024.5	6959.4	6968.0	6924.6	6968.0	6920.3	6876.8	6768.2	6737.8
7.5°	6950.7	6946.3	6950.7	6859.4	6902.9	6876.8	6833.4	6781.2	6694.4	6624.9	6524.9
10°	6742.1	6785.6	6737.8	6763.9	6798.6	6720.4	6716.1	6703.0	6663.9	6572.7	6511.9
12.5°	6629.2	6703.0	6729.1	6707.4	6737.8	6746.5	6720.4	6703.0	6655.3	6594.4	6420.7
15°	6677.0	6590.1	6663.9	6807.3	6776.9	6798.6	6803.0	6785.6	6763.9	6650.9	6538.0
17.5°	6690.0	6637.9	6794.3	6824.7	6863.8	6942.0	6889.8	6885.5	6803.0	6724.8	6559.7
20°	6720.4	6698.7	6824.7	6985.4	6989.8	7002.8	7028.9	6963.7	6920.3	6785.6	6533.6
22.5°	6833.4	6907.2	7024.5	7094.0	7133.1	7141.8	7141.8	7011.5	6963.7	6855.1	6655.3
25°	7172.2	7094.0	7259.1	7341.6	7285.2	7272.1	7241.7	7124.4	7072.3	6976.7	6711.7
27.5°	7419.8	7415.5	7511.1	7624.0	7472.0	7502.4	7393.8	7359.0	7241.7	7189.6	6811.6
30°	7758.7	7854.2	7849.9	7884.7	7684.8	7719.6	7580.6	7515.4	7450.2	7480.7	7107.1
32.5°	8193.1	8158.3	8214.8	8188.7	7988.9	8019.3	7854.2	7754.3	7776.1	7867.3	7511.1
35°	8471.1	8436.4	8458.1	8458.1	8397.3	8362.5	8293.0	8162.7	8266.9	8436.4	7962.9
37.5°	8770.9	8814.3	8940.3	8914.2	8836.0	8836.0	8827.3	8736.1	8870.8	9287.8	8684.0
40°	9035.9	9153.2	9231.3	9283.5	9374.7	9374.7	9448.6	9396.4	9639.7	10308.7	9565.8
42.5°	9313.9	9318.2	9744.0	9783.1	9987.2	10074.1	10130.6	10174.0	10630.2	11377.4	10508.5
45°	9670.1	9691.8	10065.4	10365.2	10682.3	10712.7	10925.6	11068.9	11629.3	12545.9	11533.8
47.5°	10139.3	10113.2	10512.9	10990.7	11386.1	11594.6	11850.9	12007.3	12698.0	13814.4	12654.6
50°	10756.2	10678.0	10908.2	11659.7	12124.6	12354.8	12810.9	13071.6	13879.6	15026.5	13423.5
52.5°	11507.7	11377.4	11559.8	12380.9	12902.2	13367.0	13801.4	14092.5	14935.2	15964.8	13992.6
55°	12302.7	12033.3	12085.5	13145.4	13897.0	14335.7	14930.9	15235.0	16095.1	16807.6	14561.6
57.5°	13089.0	12919.5	12815.3	13879.6	15082.9	15504.3	16051.7	16447.0	17176.8	17554.8	15043.8
60°	13749.3	13705.8	13536.4	15017.8	16338.4	16699.0	17272.4	17515.7	18067.4	18245.5	15052.5
62.5°	14292.3	14144.6	14413.9	15934.4	17615.6	18023.9	18653.8	18675.6	19066.5	18675.6	14609.4
65°	14718.0	14726.7	15156.8	17042.2	19092.6	19696.4	20204.7	20148.2	19896.3	18419.3	13562.5
67.5°	15104.7	15269.7	15899.6	18258.5	20991.0	21560.1	22124.8	21377.6	20122.2	17220.3	11516.4
70°	15408.8	15573.8	16903.1	19739.9	23228.2	24062.3	24188.3	21864.2	19083.9	14587.7	8688.3
72.5°	15374.0	15673.7	17472.2	20921.5	25213.5	25934.7	24918.1	20495.8	15899.6	10169.7	5069.6
73°	15447.8	15595.5	17424.4	21251.7	25817.4	26177.9	24579.3	20065.7	14996.1	9122.7	4287.7
75°	14023.0	14522.5	16560.0	20713.0	25170.1	25104.9	22633.1	16720.7	10660.6	4791.6	2076.5
77.5°	10373.9	10691.0	13049.9	17033.5	20660.8	20243.8	17072.6	10686.6	5061.0	1776.8	1120.8
80°	5069.6	5317.3	6915.9	9835.2	13510.4	13545.1	10595.4	5560.5	2167.7	1003.5	764.6
82.5°	2532.6	2680.3	3323.3	4322.4	6646.6	6963.7	5373.7	3162.6	1342.3	569.1	434.4
85°	1655.1	1759.4	2046.1	2115.6	2819.4	2975.8	2502.2	2467.5	873.2	308.4	351.9
87.5°	1099.1	1116.5	1255.5	1068.7	1129.5	1086.0	1207.7	1555.2	256.3	130.3	95.6
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°	6911.6	6911.6	6911.6	6911.6	6911.6	6911.6	6911.6	6911.6	6911.6	6911.6	6911.6
2.5°	6889.8	6829.0	6763.9	6672.6	6607.5	6507.6	6416.3	6377.2	6368.5	6372.9	6329.4
5°	6711.7	6624.9	6494.5	6307.7	6199.1	6034.0	5895.0	5821.2	5743.0	5756.0	5721.3
7.5°	6464.1	6368.5	6168.7	5951.5	5682.2	5447.6	5317.3	5134.8	5030.5	4952.3	4995.8
10°	6385.9	6220.8	5921.1	5621.3	5204.3	4895.9	4596.1	4387.6	4244.2	4105.2	4166.1
12.5°	6346.8	6181.7	5764.7	5321.6	4782.9	4313.8	3892.4	3636.1	3431.9	3310.3	3358.0
15°	6312.1	6107.9	5617.0	4991.4	4387.6	3770.7	3297.2	2958.4	2762.9	2645.6	2658.6
17.5°	6359.9	6068.8	5399.8	4670.0	3953.2	3292.9	2767.2	2415.4	2215.5	2141.7	2124.3
20°	6312.1	6025.4	5186.9	4348.5	3518.8	2836.7	2332.8	2041.8	1902.7	1841.9	1828.9
22.5°	6329.4	5921.1	4965.4	3992.3	3114.8	2454.5	2041.8	1820.2	1711.6	1681.2	1689.9
25°	6412.0	5860.3	4743.8	3601.3	2715.1	2172.1	1855.0	1685.5	1607.3	1576.9	1585.6
27.5°	6472.8	5912.4	4544.0	3232.1	2376.3	1920.1	1698.6	1585.6	1533.5	1511.8	1507.4
30°	6624.9	5942.8	4348.5	2901.9	2098.2	1755.0	1590.0	1498.7	1464.0	1451.0	1446.6
32.5°	6850.7	5999.3	4122.6	2597.8	1894.1	1598.7	1503.1	1424.9	1416.2	1403.2	1407.5
35°	7220.0	6194.8	3870.7	2337.2	1698.6	1494.4	1411.9	1359.7	1359.7	1359.7	1372.8
37.5°	7750.0	6468.5	3644.8	2089.5	1572.6	1403.2	1333.7	1316.3	1307.6	1320.6	1329.3
40°	8432.0	6798.6	3462.3	1894.1	1464.0	1342.3	1281.5	1272.8	1268.5	1264.2	1272.8
42.5°	9179.2	7220.0	3305.9	1742.0	1385.8	1277.2	1233.7	1225.1	1207.7	1216.4	1229.4
45°	9922.1	7741.3	3166.9	1620.4	1333.7	1242.4	1181.6	1177.3	1168.6	1164.2	1186.0
47.5°	10747.5	8253.9	3123.5	1546.5	1294.6	1190.3	1146.9	1142.5	1116.5	1112.1	1129.5
50°	11390.4	8631.9	3171.2	1511.8	1238.1	1151.2	1120.8	1099.1	1077.4	1055.6	1055.6
52.5°	11833.5	8892.5	3206.0	1485.7	1207.7	1099.1	1060.0	1051.3	1029.6	1007.8	999.2
55°	12233.2	9048.9	3214.7	1490.0	1177.3	1038.3	1012.2	1007.8	994.8	960.1	951.4
57.5°	12367.8	8983.7	3040.9	1451.0	1159.9	999.2	964.4	973.1	955.7	925.3	921.0
60°	12354.8	8531.9	2645.6	1398.8	1120.8	955.7	912.3	938.3	938.3	903.6	899.2
62.5°	11603.3	7489.3	2163.4	1298.9	1077.4	912.3	864.5	903.6	916.6	894.9	890.6
65°	10043.7	6099.2	1807.2	1199.0	1012.2	864.5	816.7	860.1	881.9	873.2	868.8
67.5°	8310.4	4665.6	1503.1	1068.7	929.7	799.3	760.2	790.6	803.7	808.0	812.4
70°	5873.3	3106.1	1255.5	925.3	816.7	729.8	686.4	690.7	686.4	699.4	699.4
72.5°	3193.0	1789.8	1020.9	786.3	703.8	634.2	603.8	582.1	582.1	577.8	577.8
73°	2732.5	1607.3	973.1	764.6	673.3	616.9	582.1	564.7	564.7	560.4	556.1
75°	1533.5	1177.3	834.1	656.0	582.1	538.7	512.6	486.5	482.2	482.2	482.2
77.5°	1007.8	916.6	664.7	525.6	469.2	430.1	421.4	395.3	395.3	395.3	391.0
80°	755.9	721.1	512.6	399.7	360.6	330.2	321.5	304.1	299.7	282.4	286.7
82.5°	503.9	569.1	373.6	282.4	243.3	225.9	225.9	221.6	208.5	186.8	186.8
85°	399.7	464.8	269.3	173.8	143.4	121.6	126.0	121.6	117.3	95.6	91.2
87.5°	73.9	186.8	78.2	47.8	34.8	21.7	21.7	13.0	8.7	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)