

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: P479979

Luminaire Tested: **IFLD-L-SA7E-722-U-SL2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479979
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7E-722-U-SL2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens
Light Source: (112) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

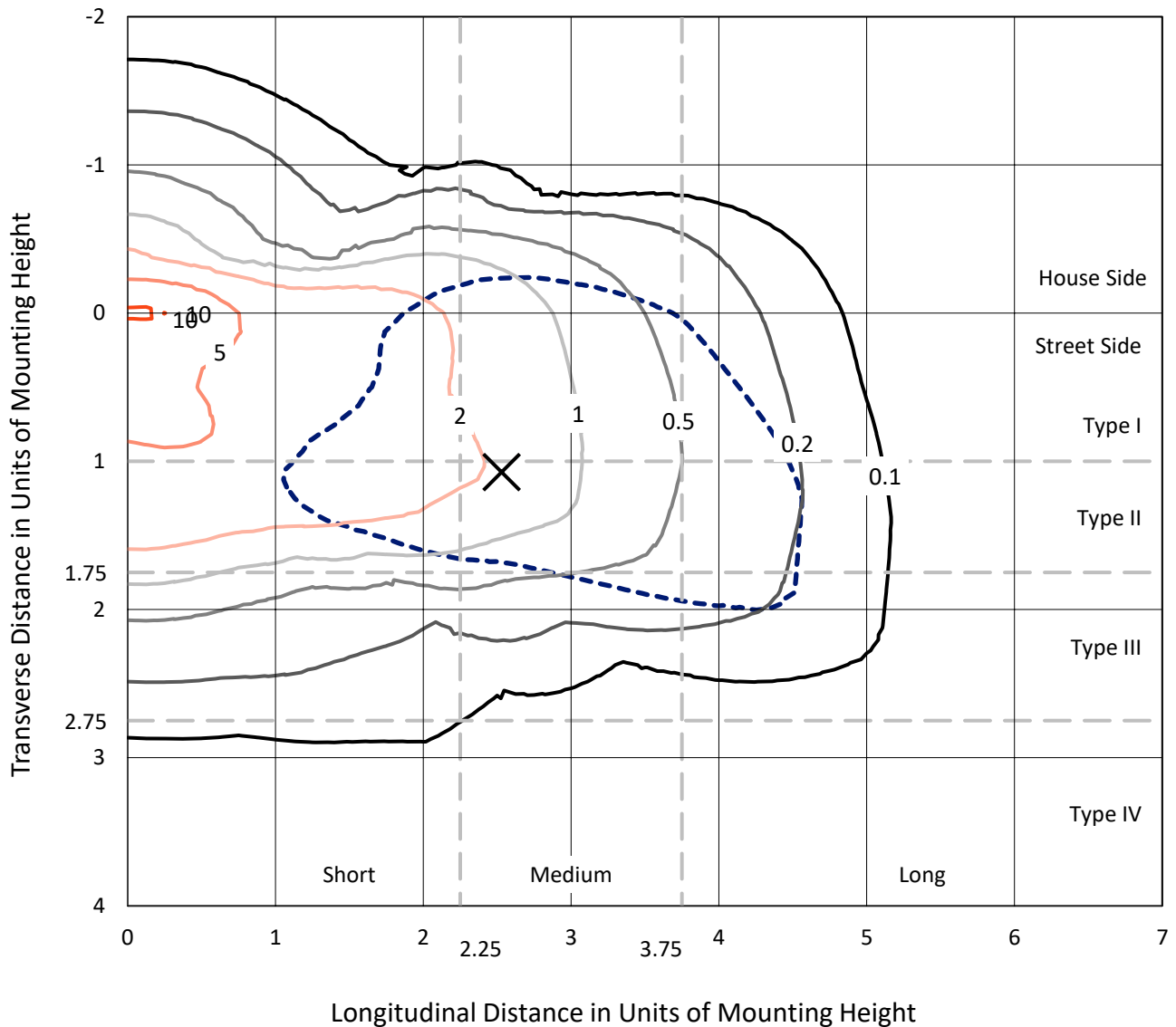
Lumens per Lamp: N/A
Luminaire Lumens: 41459.8 lumens
Efficiency: N/A
Efficacy: 77.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

Input Watts (W): 532.7
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

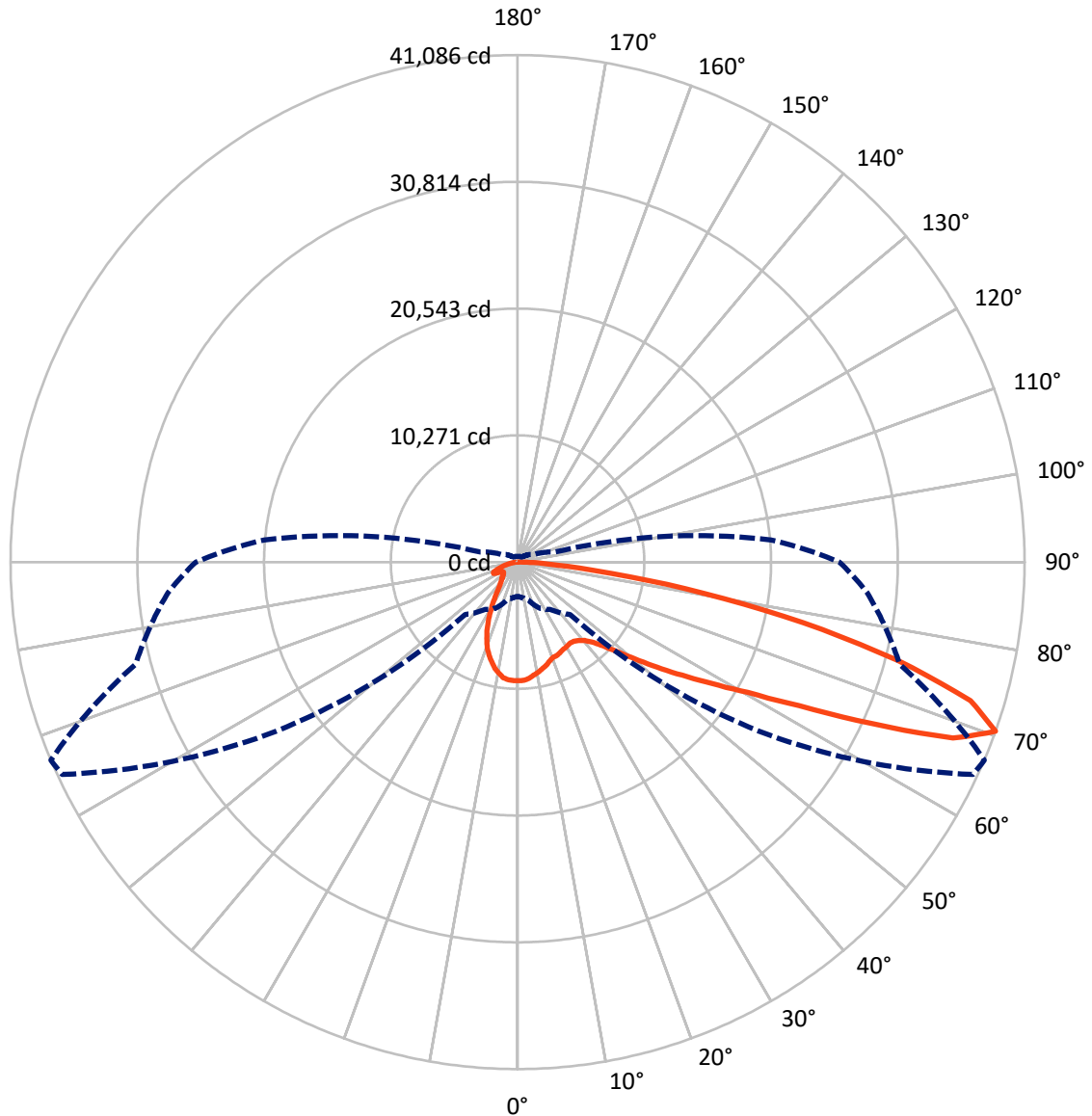
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 10.8 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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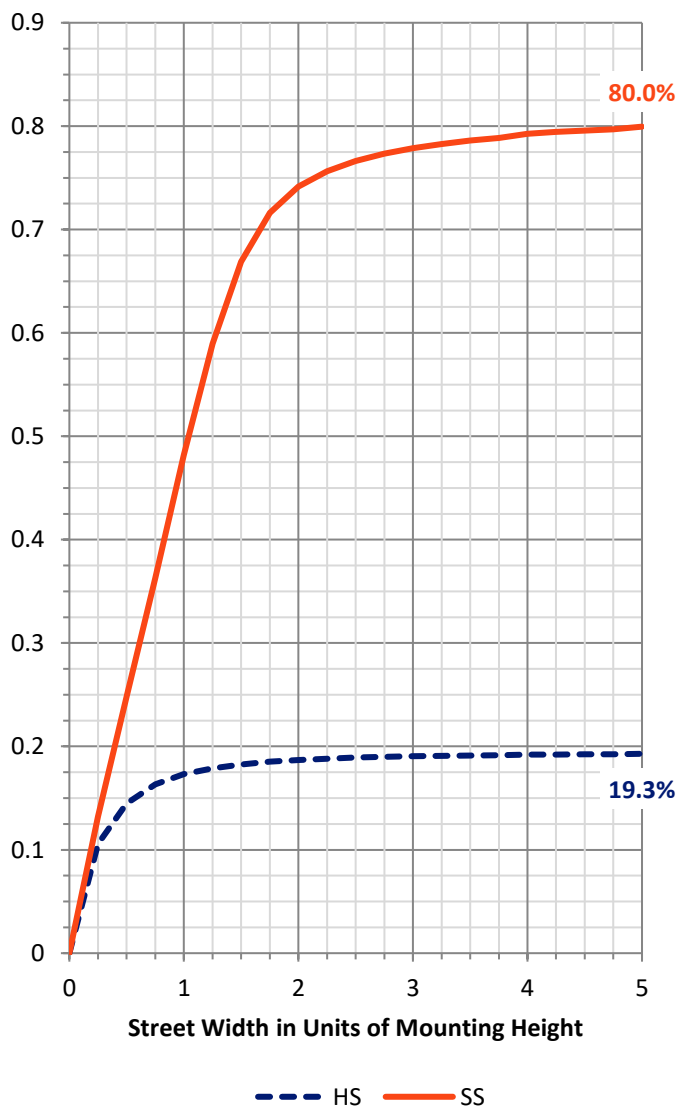
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8074.7	0.0	8074.7
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	33385.1	0.0	33385.1
	% Fixture	80.5	0.0	80.5
Total	Lumens	41459.8	0.0	41459.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	837.4	2.0
10°-20°	2005.6	4.8
20°-30°	2708.4	6.5
30°-40°	3624.1	8.7
40°-50°	5329.2	12.9
50°-60°	8306.9	20.0
60°-70°	10232.7	24.7
70°-80°	7230.3	17.4
80°-90°	1185.1	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°	41459.8	100.0
0°-180°	41459.8	100.0

Coefficient of Utilization



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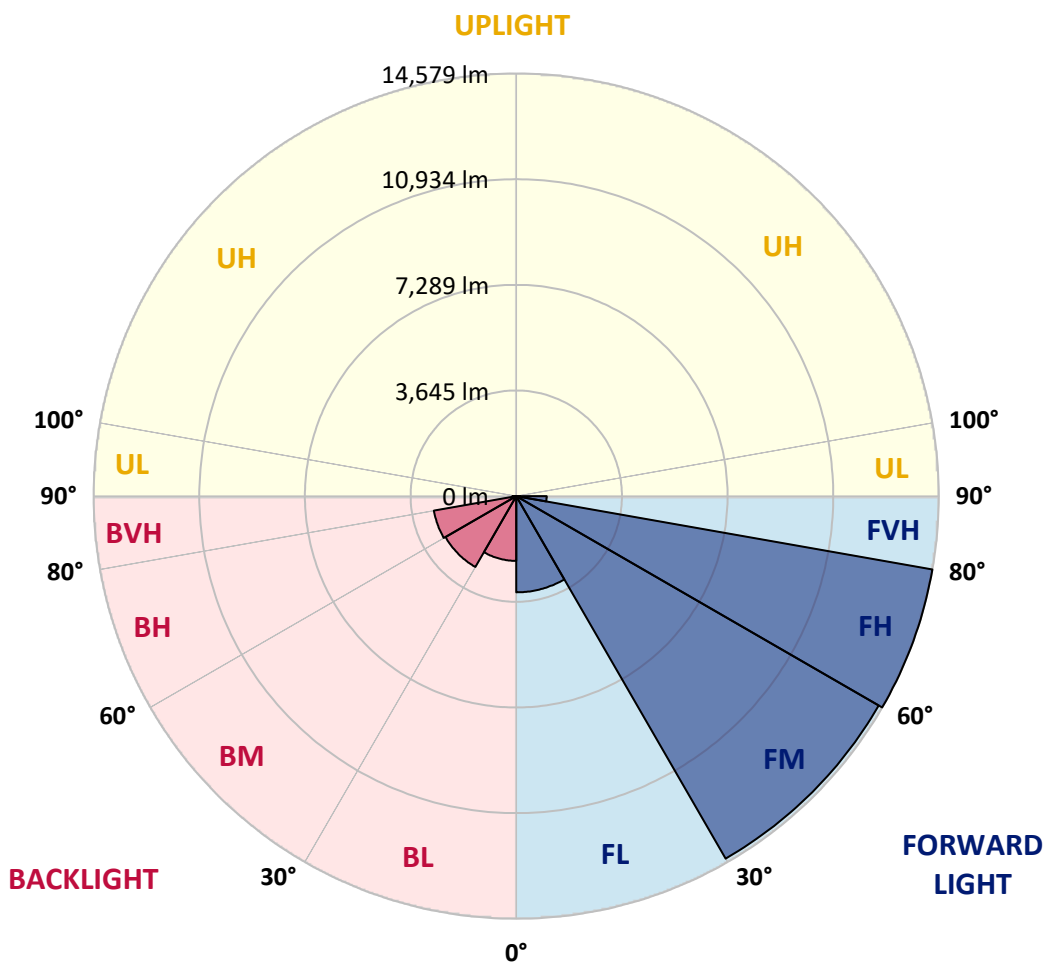
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3318.5	8.0			
FM	(30°-60°)	14439.5	34.8			
FH	(60°-80°)	14578.6	35.2			G5
FVH	(80°-90°)	1048.4	2.5			G5
BL	(0°-30°)	2232.9	5.4	B3/2500		
BM	(30°-60°)	2820.7	6.8	B3/5000		
BH	(60°-80°)	2884.4	7.0	B4/5000		G4/5000
BVH	(80°-90°)	136.7	0.3			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	9597.8	9597.8	9597.8	9597.8	9597.8	9597.8	9597.8	9597.8	9597.8	9597.8	9597.8
2.5°	8936.8	9037.8	9074.5	9129.6	9271.9	9377.5	9441.7	9515.2	9602.4	9675.8	9721.7
5°	8312.6	8367.7	8454.9	8514.6	8693.6	8978.2	9170.9	9483.1	9473.9	9588.6	9763.1
7.5°	7706.7	7761.8	7803.1	7922.4	8179.5	8436.5	8790.0	9294.9	9258.1	9524.4	9795.2
10°	7330.3	7289.0	7302.8	7504.7	7706.7	7995.9	8441.1	8955.2	9088.3	9501.4	9887.0
12.5°	6976.9	6931.0	7041.1	7169.7	7417.5	7679.2	8211.6	8675.2	8877.2	9418.8	9928.3
15°	6756.6	6724.4	6862.1	6917.2	7211.0	7523.1	7899.5	8464.1	8684.4	9317.8	9864.0
17.5°	6632.6	6660.2	6710.7	6830.0	7018.2	7284.4	7697.5	8321.8	8418.2	9193.9	9850.3
20°	6655.6	6687.7	6692.3	6742.8	6871.3	7077.9	7500.2	8170.3	8234.6	9170.9	9887.0
22.5°	6839.2	6793.3	6811.6	6779.5	6816.2	6976.9	7348.7	7968.3	8216.2	8978.2	9809.0
25°	7114.6	7050.3	7041.1	6931.0	6862.1	6908.0	7321.1	7917.8	8078.5	8918.5	9804.4
27.5°	7601.1	7504.7	7504.7	7339.5	7059.5	6986.1	7243.1	7835.2	7977.5	8863.4	9698.8
30°	8069.3	8069.3	8073.9	7839.8	7527.7	7165.1	7275.2	7803.1	7894.9	8698.2	9556.5
32.5°	8638.5	8624.7	8601.8	8487.0	8005.1	7463.4	7431.3	7761.8	7807.7	8643.1	9515.2
35°	9193.9	9157.2	9336.2	9235.2	8744.1	8046.4	7592.0	7780.1	7881.1	8560.5	9386.7
37.5°	9611.6	9634.5	10006.3	10070.6	9648.3	8707.3	8046.4	7963.7	8060.1	8679.8	9386.7
40°	10153.2	10245.0	10593.9	10809.6	10552.5	9579.4	8767.0	8271.3	8340.1	8946.0	9588.6
42.5°	10864.7	10942.7	11387.9	11667.9	11594.5	10690.2	9478.5	8913.9	8858.8	9391.3	9891.6
45°	11805.6	11819.4	12269.2	12654.8	12806.3	11851.5	10607.6	9726.3	9680.4	10157.8	10447.0
47.5°	12925.6	12911.8	13191.8	13604.9	14013.4	13237.7	11906.6	10961.1	10795.8	11254.8	11369.6
50°	14008.9	13949.2	14013.4	14541.3	15326.2	14972.8	13485.6	12471.2	12305.9	12558.4	12755.8
52.5°	14605.6	14679.0	14504.6	15202.3	16721.6	17024.5	15578.7	14275.1	14132.8	14256.7	14601.0
55°	14187.9	14339.3	14224.6	14885.6	17332.1	19526.1	18286.8	16363.6	16180.0	16134.1	16698.6
57.5°	12411.5	12686.9	12709.9	13756.4	17120.9	21463.1	22096.5	18828.4	18553.0	18084.8	18667.8
60°	9529.0	9804.4	10015.5	11254.8	15312.4	22619.8	26512.2	22335.2	21426.4	20214.6	20563.5
62.5°	6678.5	6866.7	7077.9	7839.8	11805.6	21940.5	30331.1	27274.1	25598.7	22459.1	22895.2
65°	4865.5	5012.3	5228.1	5677.9	7252.3	18153.7	32102.9	33140.2	31552.1	25314.2	25259.1
67.5°	3662.9	3754.7	4039.3	4759.9	5026.1	11213.5	30266.8	39336.8	38051.6	28485.9	27159.4
70°	2772.4	2850.4	3116.6	4103.5	4695.6	6013.0	23877.5	40718.4	41085.6	32043.2	28435.4
72.5°	1909.5	1996.7	2295.0	3419.6	4470.7	4769.1	14986.5	36991.3	38382.1	33507.4	27067.6
75°	1170.5	1230.1	1404.6	2593.4	4438.6	4663.5	8248.3	30312.7	31786.1	30959.9	23680.1
77.5°	826.2	821.6	853.8	1519.3	3846.5	4691.0	5085.8	22211.3	23643.4	22817.2	16069.8
80°	601.3	605.9	638.0	908.8	2611.7	4769.1	4007.1	14876.4	15303.3	11897.4	6338.9
82.5°	362.6	381.0	459.0	615.1	1569.8	4305.5	3704.2	8266.7	7734.2	3818.9	1744.2
85°	192.8	192.8	270.8	390.2	835.4	3213.0	3566.5	3933.7	3295.7	1184.2	647.2
87.5°	45.9	45.9	78.0	156.1	335.1	1537.7	2432.7	1565.2	1253.1	399.3	266.2
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°	9597.8	9597.8	9597.8	9597.8	9597.8	9597.8	9597.8	9597.8	9597.8	9597.8	9597.8
2.5°	9703.4	9648.3	9717.2	9579.4	9469.3	9473.9	9304.0	9294.9	9271.9	9152.6	9193.9
5°	9813.5	9767.6	9689.6	9538.1	9294.9	9051.6	8904.7	8716.5	8638.5	8597.2	8615.5
7.5°	9919.1	9836.5	9611.6	9400.4	9024.1	8565.0	8298.8	8046.4	7725.1	7688.3	7624.1
10°	9946.7	9772.2	9483.1	9033.2	8532.9	8023.4	7417.5	6949.3	6701.5	6508.7	6435.3
12.5°	9905.3	9831.9	9276.5	8698.2	7940.8	7142.1	6435.3	5774.3	5315.3	5076.6	5012.3
15°	9900.8	9772.2	9047.0	8188.7	7220.2	6178.2	5173.0	4378.9	3897.0	3699.6	3699.6
17.5°	9905.3	9597.8	8776.2	7674.6	6371.0	4961.9	3855.6	3203.9	2937.6	2910.1	2933.0
20°	9813.5	9469.3	8491.6	7068.7	5306.1	3727.1	2799.9	2533.7	2533.7	2570.4	2584.2
22.5°	9730.9	9276.5	8041.8	6320.5	4222.9	2699.0	2276.7	2198.6	2285.8	2350.1	2377.6
25°	9616.2	9115.9	7582.8	5544.8	3213.0	2175.7	1978.3	1996.7	2079.3	2194.0	2184.9
27.5°	9450.9	8835.9	7036.6	4645.1	2391.4	1877.3	1826.8	1836.0	1923.2	1973.7	1964.5
30°	9262.7	8551.3	6531.7	3750.1	1895.7	1721.3	1716.7	1739.6	1753.4	1780.9	1776.4
32.5°	9024.1	8174.9	5994.6	2914.7	1707.5	1634.1	1615.7	1601.9	1615.7	1611.1	1597.3
35°	8854.2	7972.9	5448.4	2221.6	1601.9	1556.0	1542.3	1519.3	1500.9	1473.4	1468.8
37.5°	8808.3	7771.0	4874.6	1813.1	1519.3	1496.4	1450.5	1409.1	1386.2	1372.4	1363.2
40°	8780.8	7637.9	4314.7	1592.7	1450.5	1427.5	1372.4	1317.3	1294.4	1280.6	1285.2
42.5°	8877.2	7564.4	3745.5	1482.6	1390.8	1349.5	1289.8	1225.5	1221.0	1211.8	1225.5
45°	9216.8	7656.2	3217.6	1404.6	1331.1	1262.3	1184.2	1152.1	1147.5	1138.3	1147.5
47.5°	9988.0	7885.7	2767.8	1354.1	1266.9	1207.2	1124.6	1078.7	1074.1	1069.5	1069.5
50°	11052.9	8592.6	2391.4	1294.4	1225.5	1142.9	1064.9	1014.4	1005.2	986.9	986.9
52.5°	12723.6	9781.4	2166.5	1262.3	1152.1	1083.3	1000.6	945.6	922.6	904.2	904.2
55°	14605.6	11254.8	2125.2	1207.2	1074.1	1009.8	936.4	881.3	858.3	835.4	826.2
57.5°	16749.1	13205.6	2419.0	1170.5	1019.0	936.4	853.8	803.3	784.9	761.9	752.8
60°	18745.8	15151.8	3332.4	1115.4	968.5	867.5	784.9	734.4	711.5	688.5	688.5
62.5°	21054.6	17561.6	4879.2	1115.4	922.6	794.1	711.5	674.7	661.0	638.0	633.4
65°	23785.7	20054.0	6008.4	1184.2	908.8	729.8	642.6	605.9	592.1	578.3	573.8
67.5°	25865.0	21486.1	5168.4	1367.8	968.5	674.7	573.8	550.8	541.6	527.9	518.7
70°	26085.3	20613.9	3116.6	1478.0	1028.2	619.7	514.1	491.1	491.1	477.4	468.2
72.5°	24107.0	18291.4	2097.7	1317.3	931.8	555.4	454.4	436.1	426.9	417.7	413.1
75°	20173.3	15514.4	1657.0	1051.1	716.0	459.0	394.7	376.4	362.6	358.0	348.8
77.5°	13549.8	10084.4	1225.5	821.6	527.9	371.8	330.5	312.1	298.4	293.8	280.0
80°	5205.1	3841.9	789.5	596.7	371.8	293.8	261.6	243.3	234.1	220.3	211.1
82.5°	1533.1	1243.9	440.6	367.2	238.7	202.0	188.2	174.4	160.7	146.9	142.3
85°	633.4	569.2	270.8	192.8	146.9	119.3	110.2	96.4	82.6	73.4	64.3
87.5°	293.8	243.3	123.9	73.4	50.5	27.5	13.8	4.6	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)