

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: P480294

Luminaire Tested: **IFLD-L-SA8C-830-U-SL2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480294
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8C-830-U-SL2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens
Light Source: (128) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

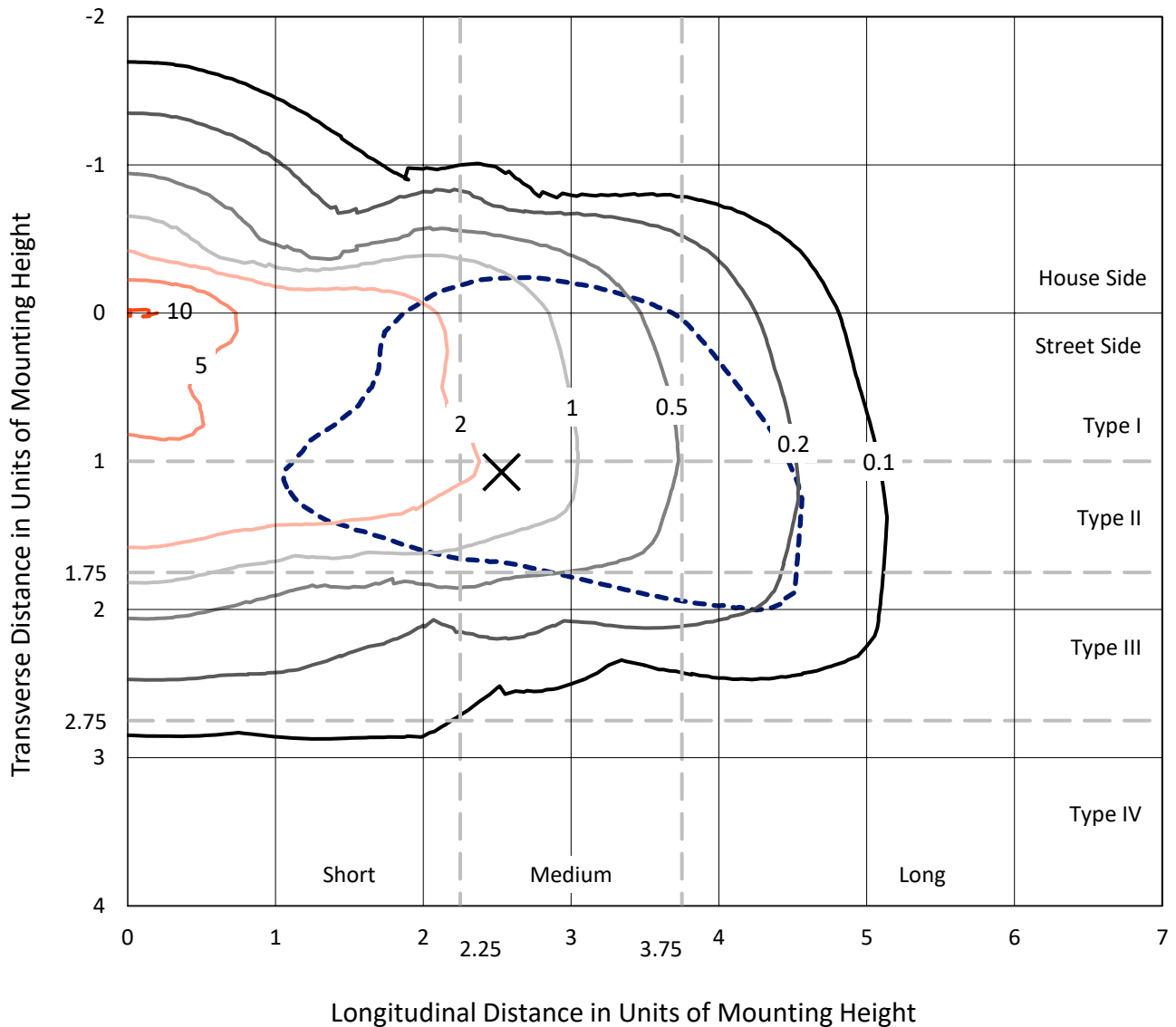
Lumens per Lamp: N/A
Luminaire Lumens: 40139.1 lumens
Efficiency: N/A
Efficacy: 95.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

Input Watts (W): 420.3
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

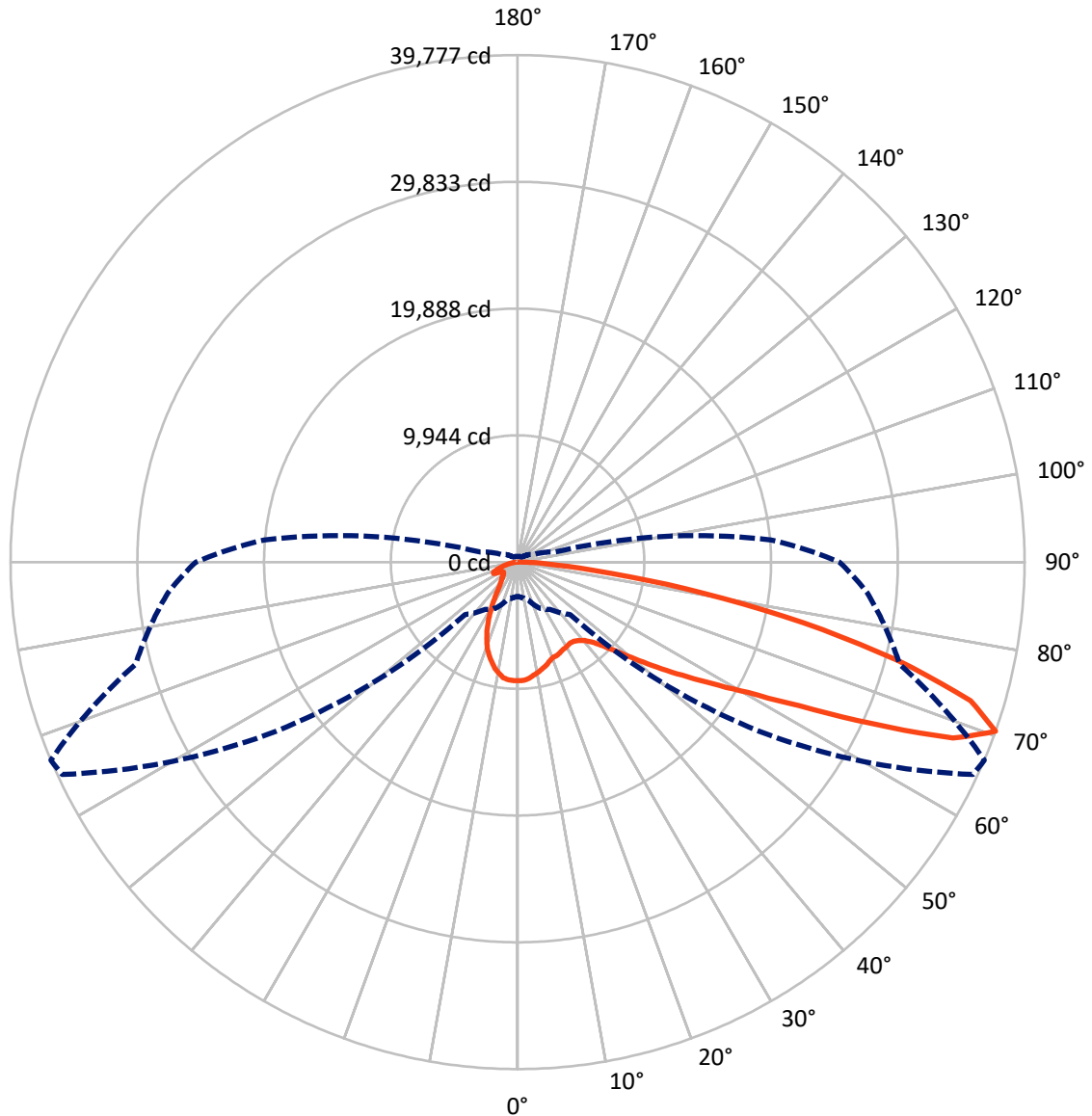
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 10.4 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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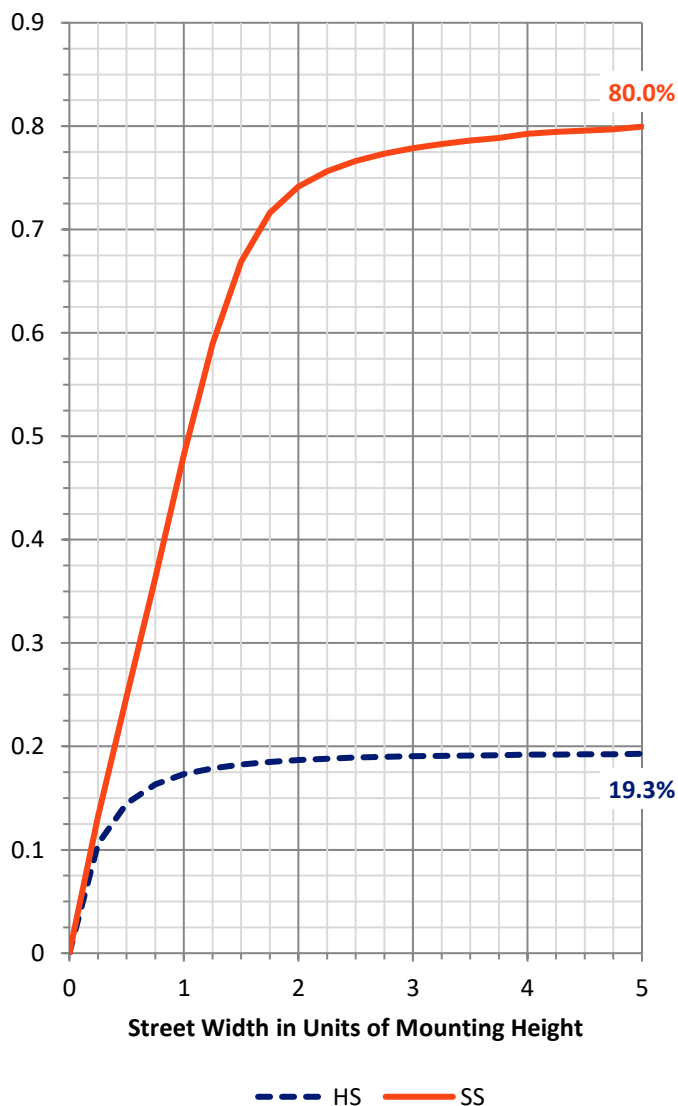
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7817.5	0.0	7817.5
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	32321.7	0.0	32321.7
	% Fixture	80.5	0.0	80.5
Total	Lumens	40139.1	0.0	40139.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	810.7	2.0
10°-20°	1941.7	4.8
20°-30°	2622.2	6.5
30°-40°	3508.7	8.7
40°-50°	5159.4	12.9
50°-60°	8042.3	20.0
60°-70°	9906.8	24.7
70°-80°	7000.0	17.4
80°-90°	1147.3	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°	40139.1	100.0
0°-180°	40139.1	100.0

Coefficient of Utilization



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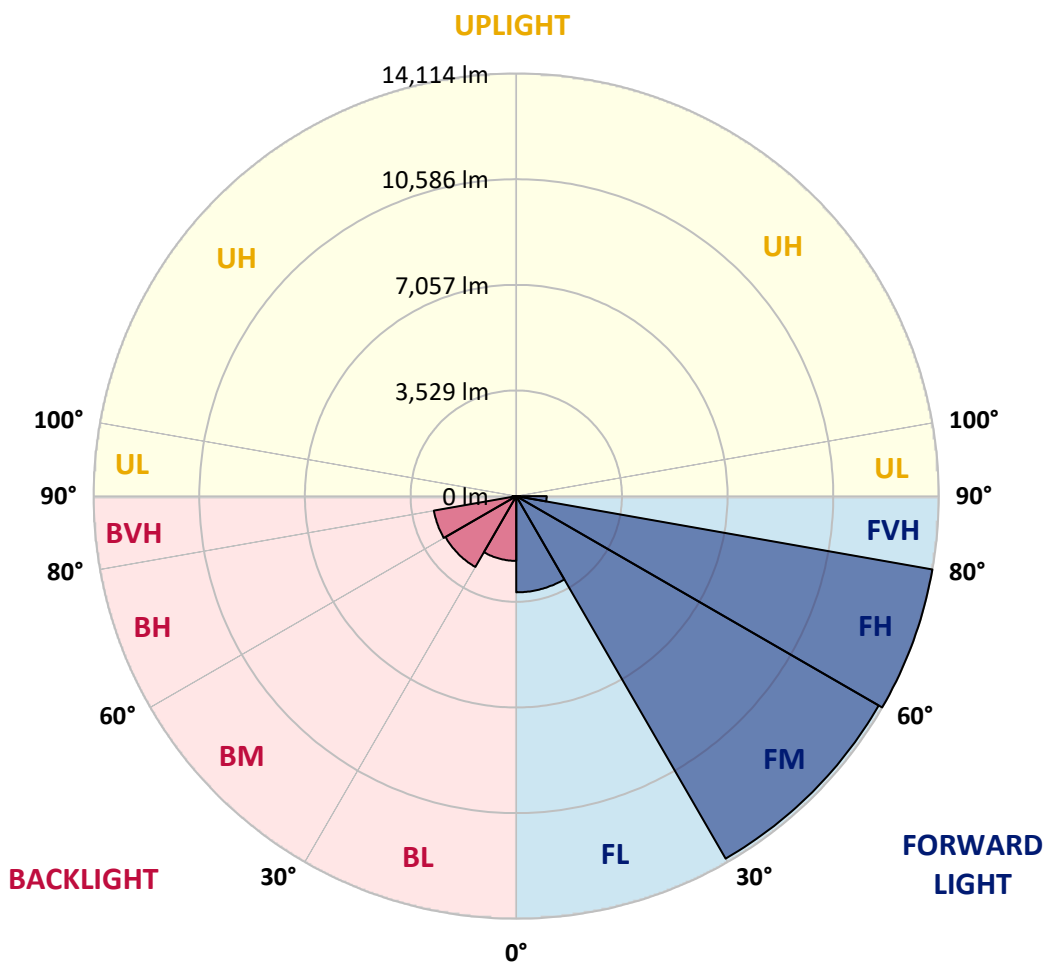
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3212.8	8.0			
FM (30°-60°)	13979.6	34.8			
FH (60°-80°)	14114.3	35.2			G5
FVH (80°-90°)	1015.0	2.5			G5
BL (0°-30°)	2161.8	5.4	B3/2500		
BM (30°-60°)	2730.8	6.8	B3/5000		
BH (60°-80°)	2792.5	7.0	B4/5000		G4/5000
BVH (80°-90°)	132.4	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°	9292.1	9292.1	9292.1	9292.1	9292.1	9292.1	9292.1	9292.1	9292.1	9292.1	9292.1
2.5°	8652.2	8749.9	8785.5	8838.8	8976.6	9078.8	9141.0	9212.1	9296.5	9367.6	9412.1
5°	8047.8	8101.1	8185.6	8243.3	8416.6	8692.2	8878.8	9181.0	9172.1	9283.2	9452.1
7.5°	7461.2	7514.5	7554.5	7670.1	7918.9	8167.8	8510.0	8998.8	8963.2	9221.0	9483.2
10°	7096.8	7056.8	7070.2	7265.7	7461.2	7741.2	8172.2	8669.9	8798.8	9198.8	9572.0
12.5°	6754.6	6710.2	6816.9	6941.3	7181.3	7434.6	7950.0	8398.9	8594.4	9118.8	9612.0
15°	6541.3	6510.2	6643.6	6696.9	6981.3	7283.5	7647.9	8194.5	8407.8	9021.0	9549.8
17.5°	6421.4	6448.0	6496.9	6612.4	6794.6	7052.4	7452.3	8056.7	8150.0	8901.0	9536.5
20°	6443.6	6474.7	6479.1	6528.0	6652.4	6852.4	7261.2	7910.0	7972.3	8878.8	9572.0
22.5°	6621.3	6576.9	6594.7	6563.6	6599.1	6754.6	7114.6	7714.5	7954.5	8692.2	9496.5
25°	6888.0	6825.8	6816.9	6710.2	6643.6	6688.0	7087.9	7665.6	7821.2	8634.4	9492.1
27.5°	7359.0	7265.7	7265.7	7105.7	6834.6	6763.5	7012.4	7585.6	7723.4	8581.1	9389.9
30°	7812.3	7812.3	7816.7	7590.1	7287.9	6936.8	7043.5	7554.5	7643.4	8421.1	9252.1
32.5°	8363.3	8350.0	8327.8	8216.7	7750.1	7225.7	7194.6	7514.5	7559.0	8367.8	9212.1
35°	8901.0	8865.5	9038.8	8941.0	8465.5	7790.1	7350.1	7532.3	7630.1	8287.8	9087.7
37.5°	9305.4	9327.6	9687.6	9749.8	9341.0	8430.0	7790.1	7710.1	7803.4	8403.3	9087.7
40°	9829.8	9918.7	10256.4	10465.3	10216.4	9274.3	8487.7	8007.8	8074.5	8661.1	9283.2
42.5°	10518.6	10594.1	11025.2	11296.3	11225.2	10349.7	9176.5	8630.0	8576.6	9092.1	9576.5
45°	11429.6	11442.9	11878.4	12251.7	12398.3	11474.0	10269.7	9416.5	9372.1	9834.2	10114.2
47.5°	12513.9	12500.5	12771.6	13171.6	13567.1	12816.1	11527.3	10611.9	10451.9	10896.3	11007.4
50°	13562.6	13504.9	13567.1	14078.1	14838.0	14495.8	13056.0	12073.9	11914.0	12158.4	12349.5
52.5°	14140.3	14211.4	14042.6	14718.0	16188.9	16482.2	15082.4	13820.4	13682.6	13802.6	14135.9
55°	13735.9	13882.6	13771.5	14411.4	16780.0	18904.1	17704.3	15842.3	15664.6	15620.1	16166.7
57.5°	12016.2	12282.8	12305.0	13318.2	16575.6	20779.4	21392.7	18228.7	17962.0	17508.8	18073.1
60°	9225.4	9492.1	9696.5	10896.3	14824.7	21899.3	25667.7	21623.8	20743.9	19570.7	19908.4
62.5°	6465.8	6648.0	6852.4	7590.1	11429.6	21241.6	29364.9	26405.3	24783.3	21743.7	22165.9
65°	4710.5	4852.7	5061.5	5497.0	7021.3	17575.4	31080.3	32084.6	30547.0	24507.8	24454.5
67.5°	3546.2	3635.1	3910.6	4608.3	4866.0	10856.3	29302.7	38083.8	36839.5	27578.5	26294.2
70°	2684.1	2759.6	3017.4	3972.8	4546.1	5821.4	23116.9	39421.4	39776.9	31022.5	27529.6
72.5°	1848.6	1933.1	2221.9	3310.7	4328.3	4617.2	14509.2	35813.0	37159.5	32440.1	26205.4
75°	1133.2	1191.0	1359.8	2510.8	4297.2	4514.9	7985.6	29347.2	30773.6	29973.8	22925.8
77.5°	799.9	795.4	826.6	1470.9	3723.9	4541.6	4923.8	21503.8	22890.3	22090.4	15557.9
80°	582.1	586.6	617.7	879.9	2528.5	4617.2	3879.5	14402.5	14815.8	11518.5	6137.0
82.5°	351.1	368.8	444.4	595.5	1519.8	4168.3	3586.2	8003.4	7487.9	3697.3	1688.7
85°	186.6	186.6	262.2	377.7	808.8	3110.7	3452.9	3808.4	3190.7	1146.5	626.6
87.5°	44.4	44.4	75.5	151.1	324.4	1488.7	2355.2	1515.4	1213.2	386.6	257.7
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°	9292.1	9292.1	9292.1	9292.1	9292.1	9292.1	9292.1	9292.1	9292.1	9292.1	9292.1
2.5°	9394.3	9341.0	9407.6	9274.3	9167.7	9172.1	9007.7	8998.8	8976.6	8861.0	8901.0
5°	9500.9	9456.5	9381.0	9234.3	8998.8	8763.3	8621.1	8438.9	8363.3	8323.3	8341.1
7.5°	9603.2	9523.2	9305.4	9101.0	8736.6	8292.2	8034.5	7790.1	7479.0	7443.4	7381.2
10°	9629.8	9461.0	9181.0	8745.5	8261.1	7767.8	7181.3	6728.0	6488.0	6301.4	6230.3
12.5°	9589.8	9518.7	8981.0	8421.1	7687.9	6914.6	6230.3	5590.4	5146.0	4914.9	4852.7
15°	9585.4	9461.0	8758.8	7927.8	6990.2	5981.4	5008.2	4239.4	3772.8	3581.7	3581.7
17.5°	9589.8	9292.1	8496.6	7430.1	6168.1	4803.8	3732.8	3101.8	2844.1	2817.4	2839.6
20°	9500.9	9167.7	8221.1	6843.5	5137.1	3608.4	2710.7	2453.0	2453.0	2488.6	2501.9
22.5°	9421.0	8981.0	7785.6	6119.2	4088.3	2613.0	2204.1	2128.6	2213.0	2275.3	2301.9
25°	9309.9	8825.5	7341.2	5368.2	3110.7	2106.4	1915.3	1933.1	2013.1	2124.2	2115.3
27.5°	9149.9	8554.4	6812.4	4497.2	2315.2	1817.5	1768.7	1777.5	1862.0	1910.9	1902.0
30°	8967.7	8278.9	6323.6	3630.6	1835.3	1666.4	1662.0	1684.2	1697.5	1724.2	1719.8
32.5°	8736.6	7914.5	5803.7	2821.8	1653.1	1582.0	1564.2	1550.9	1564.2	1559.8	1546.5
35°	8572.2	7719.0	5274.8	2150.8	1550.9	1506.5	1493.1	1470.9	1453.1	1426.5	1422.0
37.5°	8527.7	7523.4	4719.4	1755.3	1470.9	1448.7	1404.3	1364.3	1342.0	1328.7	1319.8
40°	8501.1	7394.6	4177.2	1542.0	1404.3	1382.0	1328.7	1275.4	1253.2	1239.8	1244.3
42.5°	8594.4	7323.5	3626.2	1435.4	1346.5	1306.5	1248.7	1186.5	1182.1	1173.2	1186.5
45°	8923.2	7412.3	3115.1	1359.8	1288.7	1222.1	1146.5	1115.4	1111.0	1102.1	1111.0
47.5°	9669.8	7634.5	2679.6	1310.9	1226.5	1168.7	1088.7	1044.3	1039.9	1035.4	1035.4
50°	10700.8	8318.9	2315.2	1253.2	1186.5	1106.5	1031.0	982.1	973.2	955.4	955.4
52.5°	12318.3	9469.8	2097.5	1222.1	1115.4	1048.7	968.8	915.4	893.2	875.4	875.4
55°	14140.3	10896.3	2057.5	1168.7	1039.9	977.6	906.5	853.2	831.0	808.8	799.9
57.5°	16215.6	12785.0	2341.9	1133.2	986.5	906.5	826.6	777.7	759.9	737.7	728.8
60°	18148.7	14669.1	3226.2	1079.9	937.7	839.9	759.9	711.0	688.8	666.6	666.6
62.5°	20383.9	17002.2	4723.8	1079.9	893.2	768.8	688.8	653.2	639.9	617.7	613.3
65°	23028.0	19415.2	5817.0	1146.5	879.9	706.6	622.1	586.6	573.3	559.9	555.5
67.5°	25041.1	20801.7	5003.8	1324.3	937.7	653.2	555.5	533.3	524.4	511.0	502.2
70°	25254.4	19957.3	3017.4	1430.9	995.4	599.9	497.7	475.5	475.5	462.2	453.3
72.5°	23339.1	17708.7	2030.8	1275.4	902.1	537.7	439.9	422.2	413.3	404.4	399.9
75°	19530.7	15020.2	1604.2	1017.6	693.2	444.4	382.2	364.4	351.1	346.6	337.7
77.5°	13118.2	9763.1	1186.5	795.4	511.0	360.0	320.0	302.2	288.9	284.4	271.1
80°	5039.3	3719.5	764.3	577.7	360.0	284.4	253.3	235.5	226.6	213.3	204.4
82.5°	1484.2	1204.3	426.6	355.5	231.1	195.5	182.2	168.9	155.5	142.2	137.8
85°	613.3	551.0	262.2	186.6	142.2	115.5	106.7	93.3	80.0	71.1	62.2
87.5°	284.4	235.5	120.0	71.1	48.9	26.7	13.3	4.4	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)