

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: P481035

Luminaire Tested: **IFLD-L-SA8C-827-U-SL4**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481035
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8C-827-U-SL4
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens
Light Source: (128) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

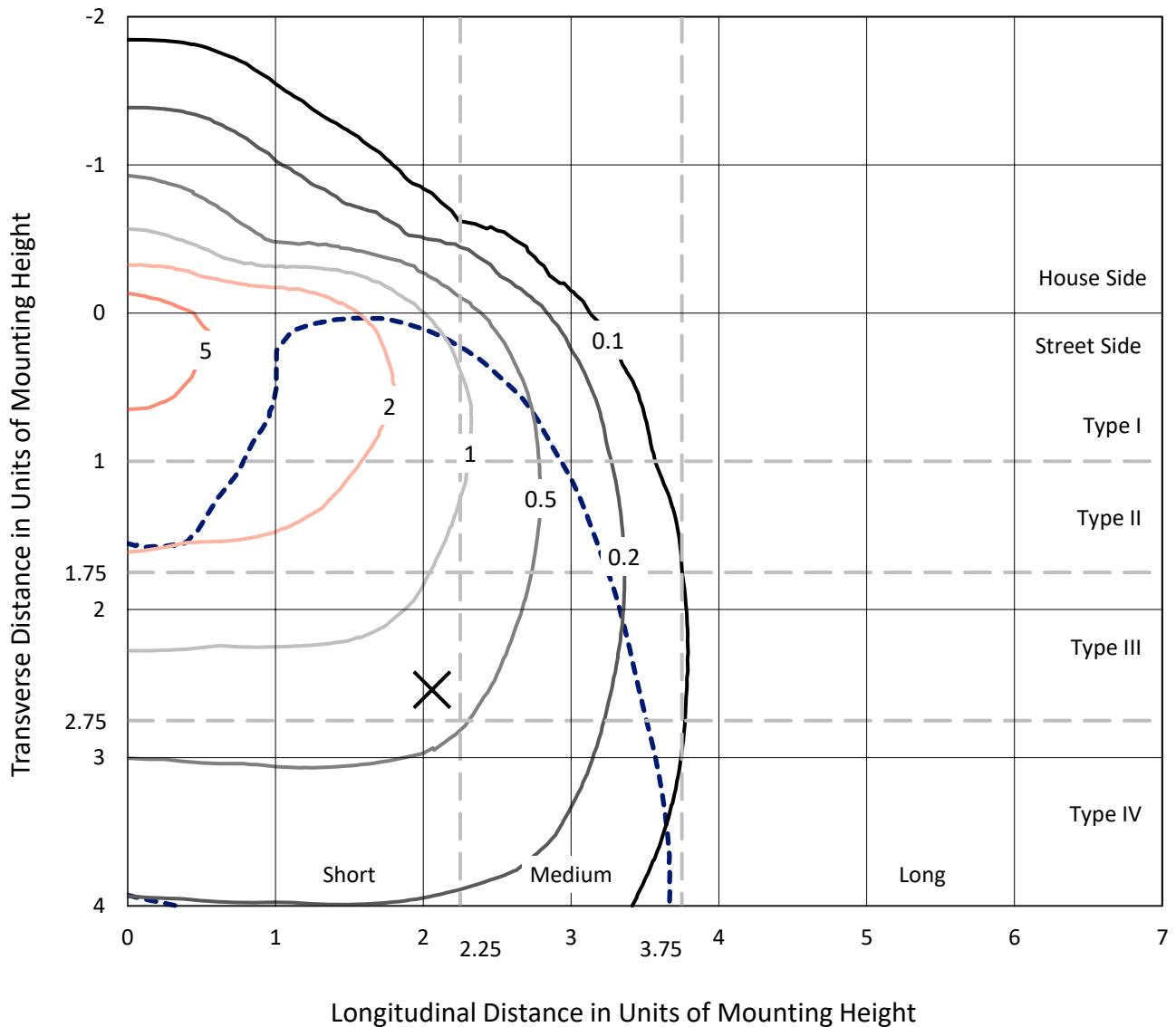
Lumens per Lamp: N/A
Luminaire Lumens: 36024.5 lumens
Efficiency: N/A
Efficacy: 85.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 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

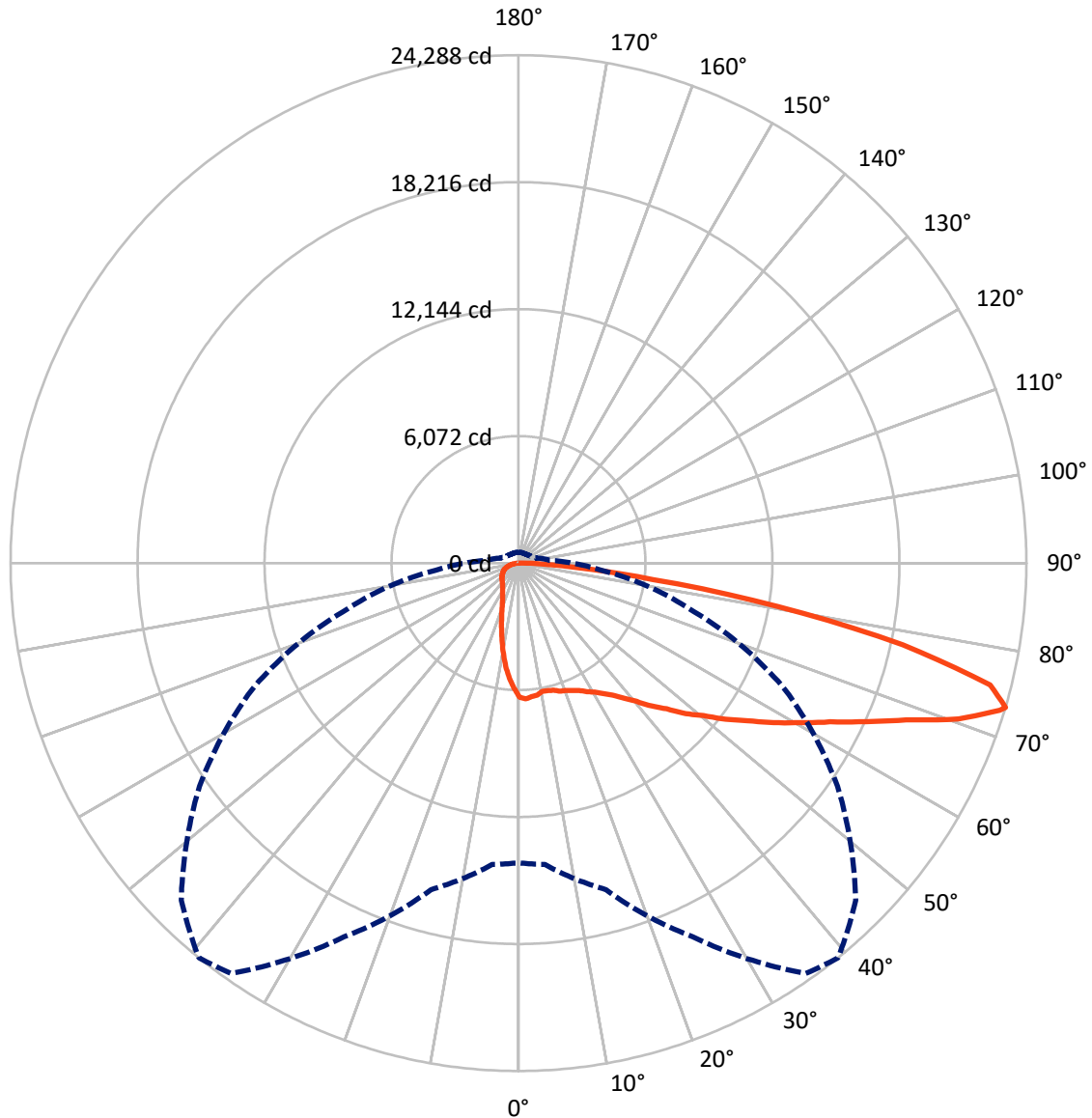
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.1 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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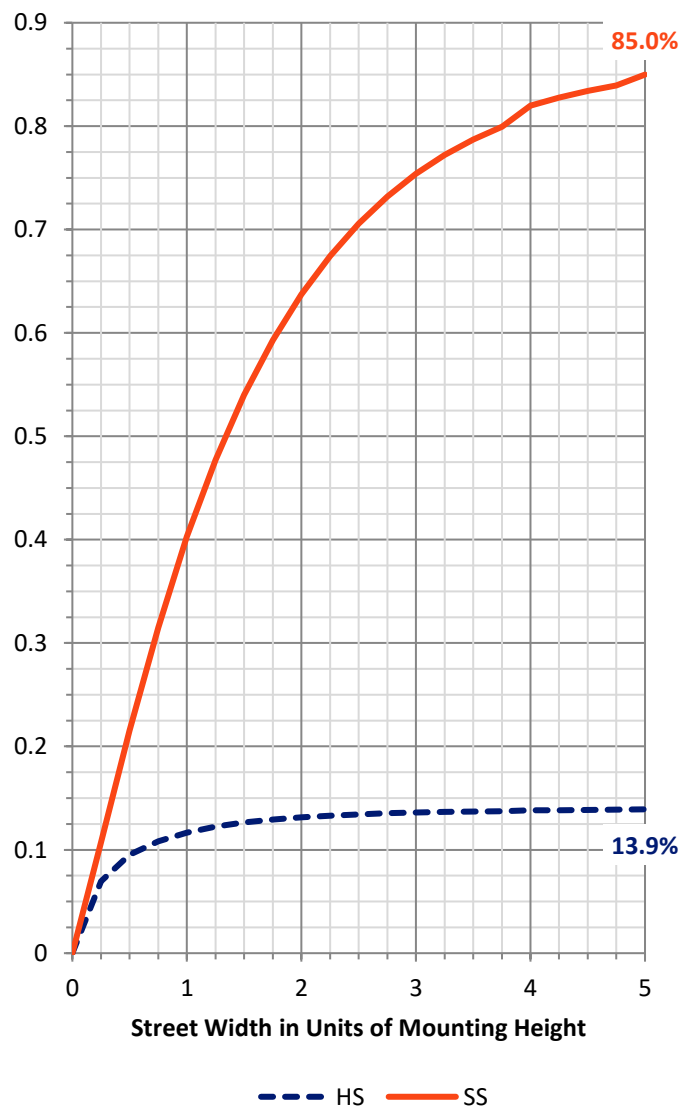
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5064.0	0.0	5064.0
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	30960.5	0.0	30960.5
	% Fixture	85.9	0.0	85.9
Total	Lumens	36024.5	0.0	36024.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	556.7	1.5
10°-20°	1415.1	3.9
20°-30°	2162.5	6.0
30°-40°	3152.9	8.8
40°-50°	4764.4	13.2
50°-60°	6899.1	19.2
60°-70°	8765.6	24.3
70°-80°	7105.9	19.7
80°-90°	1202.3	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°	36024.5	100.0
0°-180°	36024.5	100.0

Coefficient of Utilization



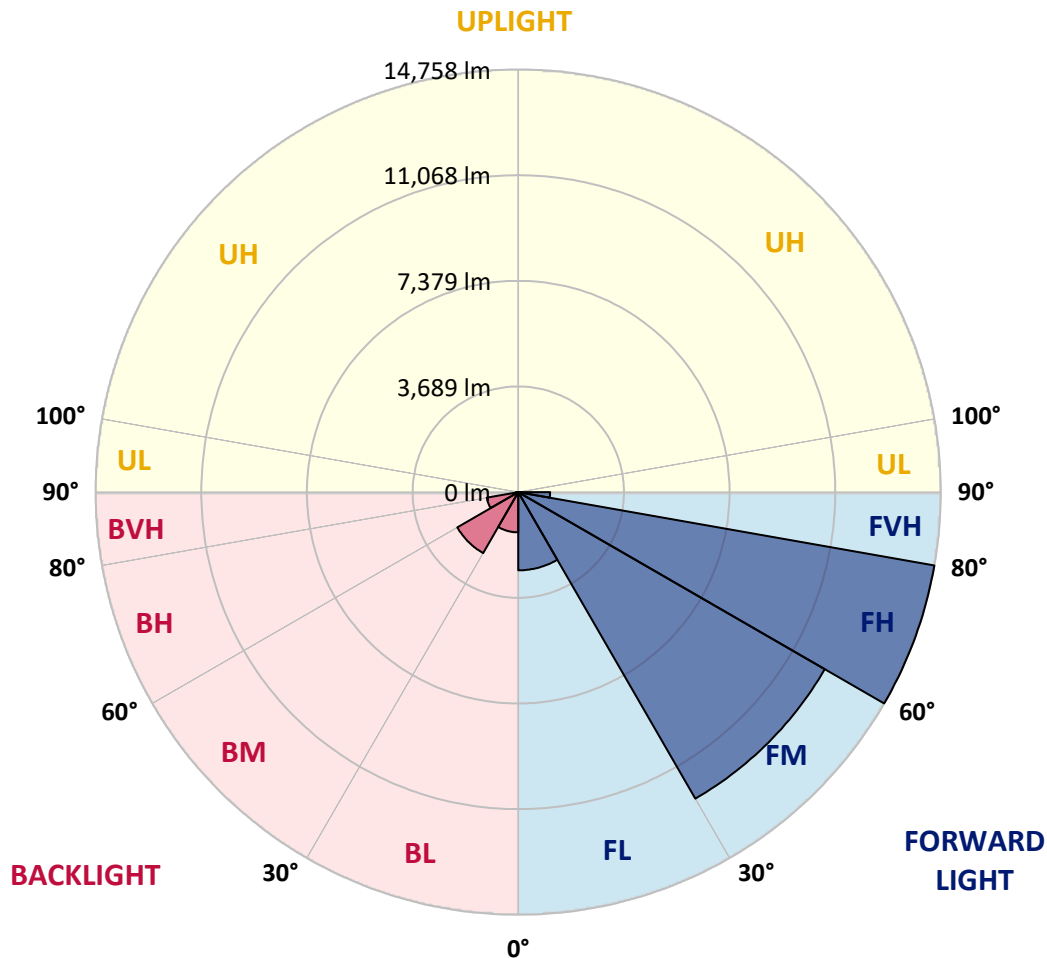
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2729.9	7.6			
FM (30°-60°)	12358.7	34.3			
FH (60°-80°)	14757.8	41.0			G5
FVH (80°-90°)	1114.1	3.1			G5
BL (0°-30°)	1404.4	3.9	B3/2500		
BM (30°-60°)	2457.7	6.8	B2/2500		
BH (60°-80°)	1113.8	3.1	B3/2500		G3/2500
BVH (80°-90°)	88.2	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°	6412.6	6412.6	6412.6	6412.6	6412.6	6412.6	6412.6	6412.6	6412.6	6412.6	6412.6
2.5°	6565.7	6497.2	6509.3	6485.1	6509.3	6501.3	6489.2	6428.7	6489.2	6428.7	6412.6
5°	6477.1	6477.1	6517.4	6456.9	6465.0	6424.7	6465.0	6420.6	6380.3	6279.6	6251.4
7.5°	6448.9	6444.8	6448.9	6364.2	6404.5	6380.3	6340.0	6291.7	6211.1	6146.6	6053.9
10°	6255.4	6295.7	6251.4	6275.5	6307.8	6235.2	6231.2	6219.1	6182.8	6098.2	6041.8
12.5°	6150.6	6219.1	6243.3	6223.1	6251.4	6259.4	6235.2	6219.1	6174.8	6118.3	5957.1
15°	6194.9	6114.3	6182.8	6315.8	6287.6	6307.8	6311.8	6295.7	6275.5	6170.7	6066.0
17.5°	6207.0	6158.7	6303.8	6332.0	6368.2	6440.8	6392.4	6388.4	6311.8	6239.3	6086.1
20°	6235.2	6215.1	6332.0	6481.1	6485.1	6497.2	6521.4	6460.9	6420.6	6295.7	6061.9
22.5°	6340.0	6408.5	6517.4	6581.9	6618.1	6626.2	6626.2	6505.3	6460.9	6360.2	6174.8
25°	6654.4	6581.9	6735.0	6811.6	6759.2	6747.1	6718.9	6610.1	6561.7	6473.0	6227.2
27.5°	6884.2	6880.1	6968.8	7073.6	6932.5	6960.7	6860.0	6827.7	6718.9	6670.5	6319.9
30°	7198.5	7287.2	7283.2	7315.4	7130.0	7162.3	7033.3	6972.8	6912.4	6940.6	6594.0
32.5°	7601.6	7569.3	7621.7	7597.6	7412.2	7440.4	7287.2	7194.5	7214.7	7299.3	6968.8
35°	7859.5	7827.3	7847.4	7847.4	7791.0	7758.8	7694.3	7573.4	7670.1	7827.3	7388.0
37.5°	8137.6	8178.0	8294.8	8270.7	8198.1	8198.1	8190.0	8105.4	8230.3	8617.3	8057.0
40°	8383.5	8492.3	8564.9	8613.2	8697.9	8697.9	8766.4	8718.0	8943.8	9564.5	8875.2
42.5°	8641.5	8645.5	9040.5	9076.8	9266.2	9346.8	9399.2	9439.5	9862.7	10556.0	9749.9
45°	8972.0	8992.1	9338.7	9616.9	9911.1	9939.3	10136.8	10269.8	10789.7	11640.2	10701.1
47.5°	9407.3	9383.1	9753.9	10197.2	10564.0	10757.5	10995.3	11140.4	11781.2	12817.1	11740.9
50°	9979.6	9907.1	10120.7	10818.0	11249.2	11462.8	11886.0	12127.9	12877.6	13941.6	12454.3
52.5°	10676.9	10556.0	10725.2	11487.0	11970.7	12402.0	12805.0	13075.1	13857.0	14812.2	12982.3
55°	11414.5	11164.6	11212.9	12196.4	12893.7	13300.8	13852.9	14135.1	14933.1	15594.1	13510.3
57.5°	12144.0	11986.8	11890.1	12877.6	13994.0	14385.0	14892.8	15259.6	15936.7	16287.4	13957.7
60°	12756.6	12716.3	12559.1	13933.6	15158.8	15493.4	16025.4	16251.1	16763.0	16928.2	13965.8
62.5°	13260.5	13123.4	13373.3	14784.0	16343.8	16722.7	17307.1	17327.3	17690.0	17327.3	13554.7
65°	13655.4	13663.5	14062.5	15811.8	17714.2	18274.4	18746.0	18693.6	18459.8	17089.5	12583.3
67.5°	14014.2	14167.3	14751.8	16940.3	19475.5	20003.5	20527.5	19834.3	18669.4	15977.0	10684.9
70°	14296.3	14449.5	15682.8	18314.7	21551.3	22325.1	22442.0	20285.7	17706.1	13534.5	8061.1
72.5°	14264.1	14542.2	16210.8	19411.0	23393.2	24062.3	23119.1	19016.1	14751.8	9435.5	4703.6
73°	14332.6	14469.6	16166.5	19717.4	23953.5	24288.0	22804.8	18617.0	13913.4	8464.1	3978.1
75°	13010.6	13474.1	15364.4	19217.6	23352.9	23292.5	20999.1	15513.5	9890.9	4445.7	1926.6
77.5°	9624.9	9919.1	12107.7	15803.7	19169.2	18782.3	15840.0	9915.1	4695.6	1648.5	1039.9
80°	4703.6	4933.4	6416.6	9125.1	12535.0	12567.2	9830.5	5159.1	2011.2	931.1	709.4
82.5°	2349.8	2486.8	3083.4	4010.4	6166.7	6460.9	4985.8	2934.2	1245.4	528.0	403.1
85°	1535.6	1632.4	1898.4	1962.9	2615.8	2760.9	2321.6	2289.3	810.1	286.2	326.5
87.5°	1019.7	1035.8	1164.8	991.5	1047.9	1007.6	1120.5	1442.9	237.8	120.9	88.7
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°	6412.6	6412.6	6412.6	6412.6	6412.6	6412.6	6412.6	6412.6	6412.6	6412.6	6412.6
2.5°	6392.4	6336.0	6275.5	6190.9	6130.4	6037.7	5953.1	5916.8	5908.8	5912.8	5872.5
5°	6227.2	6146.6	6025.6	5852.3	5751.6	5598.4	5469.4	5400.9	5328.4	5340.5	5308.2
7.5°	5997.4	5908.8	5723.4	5521.8	5271.9	5054.3	4933.4	4764.1	4667.4	4594.8	4635.1
10°	5924.9	5771.7	5493.6	5215.5	4828.6	4542.4	4264.3	4070.8	3937.8	3808.9	3865.3
12.5°	5888.6	5735.4	5348.5	4937.4	4437.6	4002.3	3611.4	3373.6	3184.1	3071.3	3115.6
15°	5856.4	5666.9	5211.5	4631.1	4070.8	3498.5	3059.2	2744.8	2563.4	2454.6	2466.7
17.5°	5900.7	5630.7	5010.0	4332.8	3667.8	3055.1	2567.4	2241.0	2055.6	1987.1	1970.9
20°	5856.4	5590.3	4812.5	4034.6	3264.7	2631.9	2164.4	1894.4	1765.4	1708.9	1696.9
22.5°	5872.5	5493.6	4606.9	3704.1	2889.9	2277.3	1894.4	1688.8	1588.0	1559.8	1567.9
25°	5949.1	5437.2	4401.3	3341.3	2519.1	2015.3	1721.0	1563.8	1491.3	1463.1	1471.1
27.5°	6005.5	5485.6	4215.9	2998.7	2204.7	1781.5	1575.9	1471.1	1422.8	1402.6	1398.6
30°	6146.6	5513.8	4034.6	2692.4	1946.7	1628.3	1475.2	1390.5	1358.3	1346.2	1342.2
32.5°	6356.2	5566.2	3825.0	2410.3	1757.3	1483.2	1394.6	1322.0	1314.0	1301.9	1305.9
35°	6698.7	5747.5	3591.2	2168.4	1575.9	1386.5	1309.9	1261.6	1261.6	1261.6	1273.6
37.5°	7190.5	6001.5	3381.6	1938.7	1459.1	1301.9	1237.4	1221.3	1213.2	1225.3	1233.3
40°	7823.3	6307.8	3212.3	1757.3	1358.3	1245.4	1189.0	1180.9	1176.9	1172.9	1180.9
42.5°	8516.5	6698.7	3067.2	1616.2	1285.7	1185.0	1144.7	1136.6	1120.5	1128.5	1140.6
45°	9205.7	7182.4	2938.3	1503.4	1237.4	1152.7	1096.3	1092.3	1084.2	1080.2	1100.3
47.5°	9971.5	7658.0	2898.0	1434.9	1201.1	1104.4	1064.1	1060.0	1035.8	1031.8	1047.9
50°	10568.1	8008.7	2942.3	1402.6	1148.7	1068.1	1039.9	1019.7	999.6	979.4	979.4
52.5°	10979.2	8250.5	2974.5	1378.4	1120.5	1019.7	983.5	975.4	955.2	935.1	927.0
55°	11350.0	8395.6	2982.6	1382.5	1092.3	963.3	939.1	935.1	923.0	890.7	882.7
57.5°	11474.9	8335.1	2821.4	1346.2	1076.2	927.0	894.8	902.8	886.7	858.5	854.5
60°	11462.8	7916.0	2454.6	1297.8	1039.9	886.7	846.4	870.6	870.6	838.4	834.3
62.5°	10765.6	6948.6	2007.2	1205.1	999.6	846.4	802.1	838.4	850.4	830.3	826.3
65°	9318.6	5658.9	1676.7	1112.4	939.1	802.1	757.7	798.0	818.2	810.1	806.1
67.5°	7710.4	4328.8	1394.6	991.5	862.5	741.6	705.3	733.6	745.6	749.7	753.7
70°	5449.3	2881.8	1164.8	858.5	757.7	677.1	636.8	640.9	636.8	648.9	648.9
72.5°	2962.4	1660.6	947.2	729.5	652.9	588.5	560.2	540.1	540.1	536.1	536.1
73°	2535.2	1491.3	902.8	709.4	624.7	572.3	540.1	524.0	524.0	519.9	515.9
75°	1422.8	1092.3	773.9	608.6	540.1	499.8	475.6	451.4	447.4	447.4	447.4
77.5°	935.1	850.4	616.7	487.7	435.3	399.0	391.0	366.8	366.8	366.8	362.7
80°	701.3	669.1	475.6	370.8	334.5	306.3	298.3	282.1	278.1	262.0	266.0
82.5°	467.5	528.0	346.6	262.0	225.7	209.6	209.6	205.6	193.5	173.3	173.3
85°	370.8	431.3	249.9	161.2	133.0	112.9	116.9	112.9	108.8	88.7	84.6
87.5°	68.5	173.3	72.5	44.3	32.2	20.2	20.2	12.1	8.1	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)