

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: P481022

Luminaire Tested: **IFLD-S-SA6E-827-U-SL4**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481022
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6E-827-U-SL4
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens
Light Source: (96) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

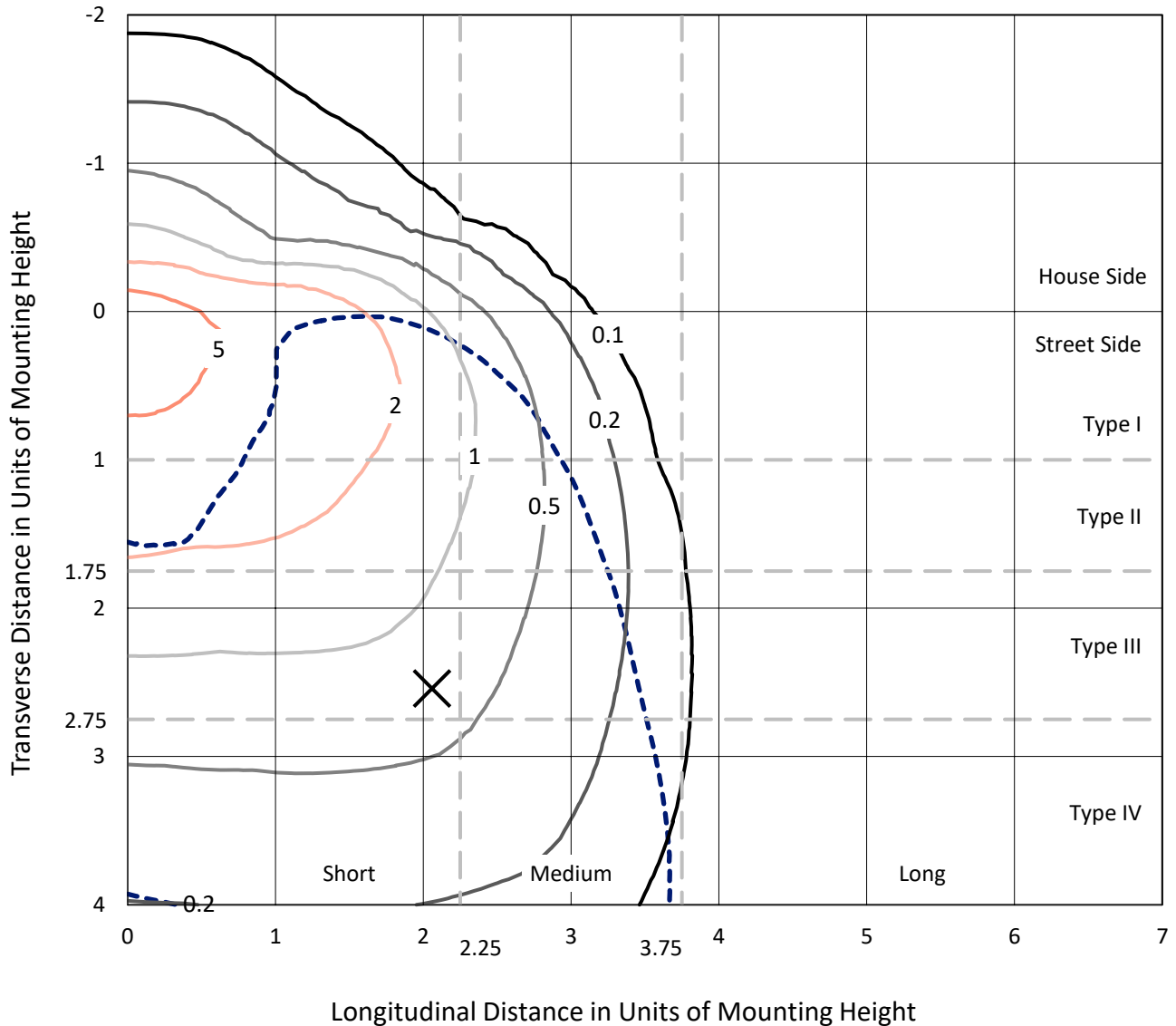
Lumens per Lamp: N/A
Luminaire Lumens: 37623.6 lumens
Efficiency: N/A
Efficacy: 81.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 464.2
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

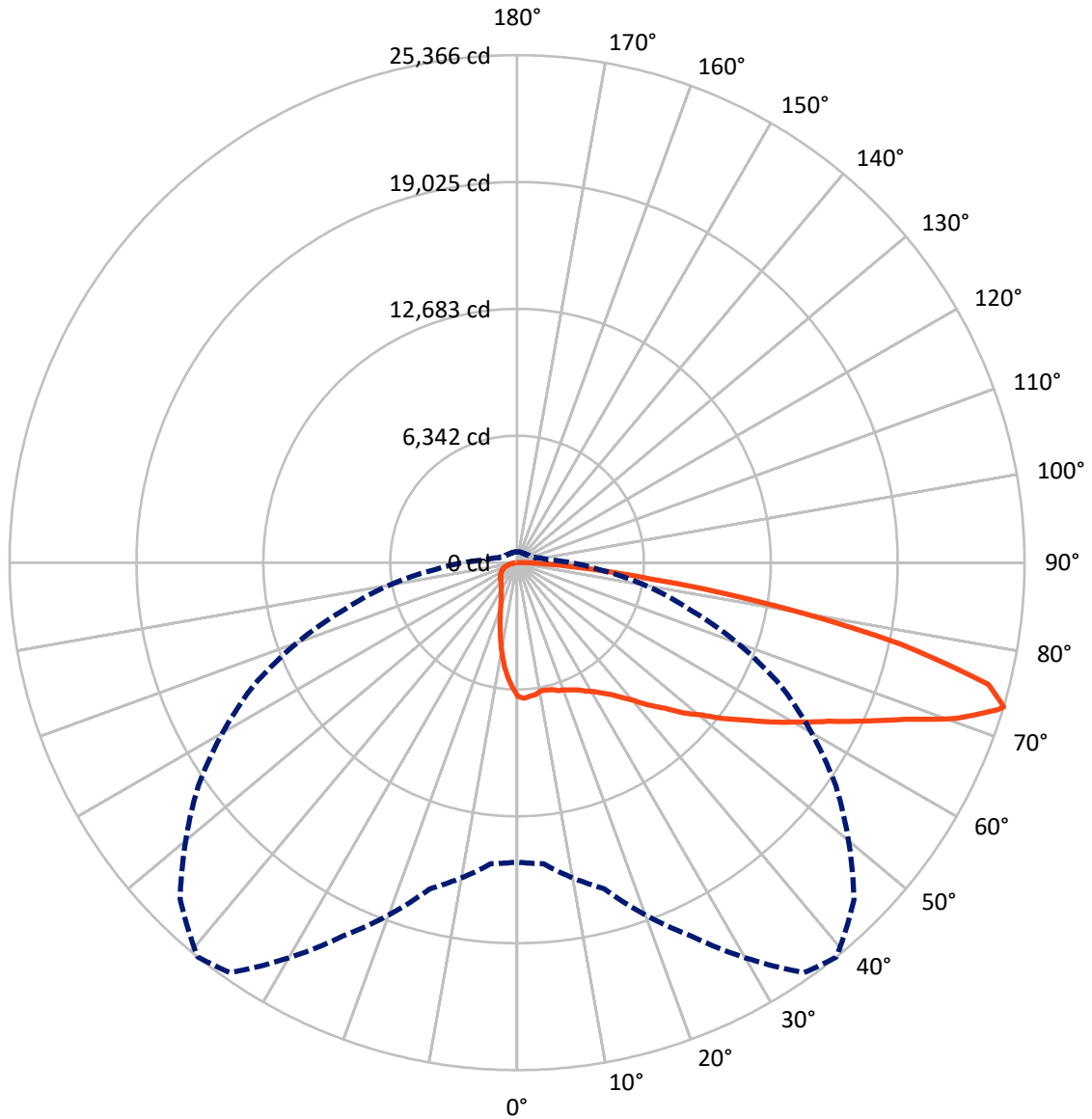
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.4 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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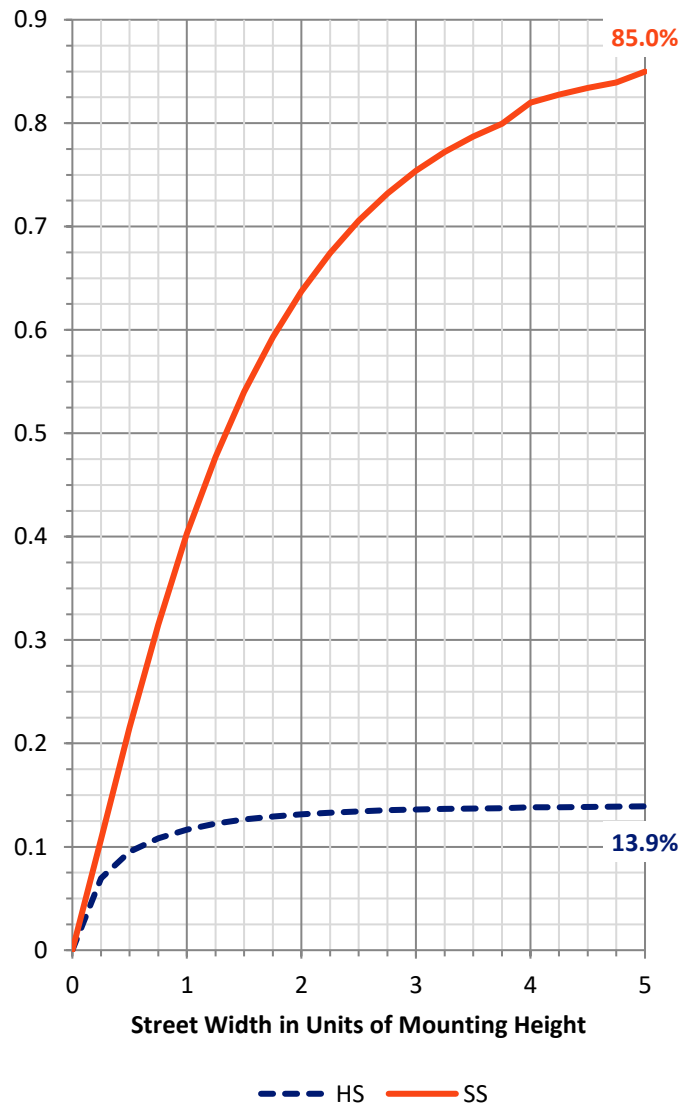
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5288.8	0.0	5288.8
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	32334.8	0.0	32334.8
	% Fixture	85.9	0.0	85.9
Total	Lumens	37623.6	0.0	37623.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	581.4	1.5
10°-20°	1477.9	3.9
20°-30°	2258.4	6.0
30°-40°	3292.9	8.8
40°-50°	4975.9	13.2
50°-60°	7205.4	19.2
60°-70°	9154.8	24.3
70°-80°	7421.3	19.7
80°-90°	1255.7	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°	37623.6	100.0
0°-180°	37623.6	100.0

Coefficient of Utilization



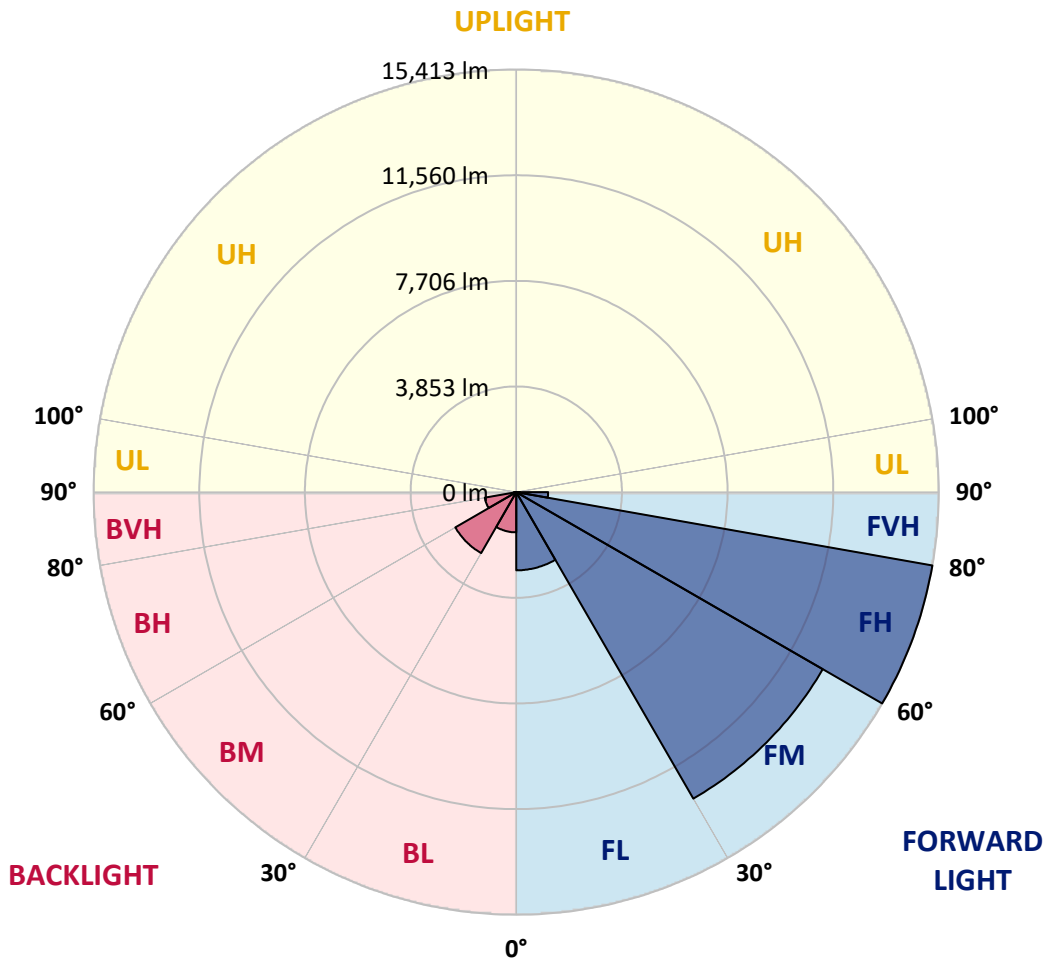
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2851.0	7.6			
FM (30°-60°)	12907.3	34.3			
FH (60°-80°)	15412.9	41.0			G5
FVH (80°-90°)	1163.5	3.1			G5
BL (0°-30°)	1466.7	3.9	B3/2500		
BM (30°-60°)	2566.8	6.8	B3/5000		
BH (60°-80°)	1163.2	3.1	B3/2500		G3/2500
BVH (80°-90°)	92.1	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°	6697.2	6697.2	6697.2	6697.2	6697.2	6697.2	6697.2	6697.2	6697.2	6697.2	6697.2
2.5°	6857.2	6785.6	6798.3	6773.0	6798.3	6789.8	6777.2	6714.1	6777.2	6714.1	6697.2
5°	6764.6	6764.6	6806.7	6743.5	6752.0	6709.9	6752.0	6705.7	6663.6	6558.3	6528.9
7.5°	6735.1	6730.9	6735.1	6646.7	6688.8	6663.6	6621.5	6571.0	6486.8	6419.4	6322.6
10°	6533.1	6575.2	6528.9	6554.1	6587.8	6512.0	6507.8	6495.2	6457.3	6368.9	6310.0
12.5°	6423.6	6495.2	6520.4	6499.4	6528.9	6537.3	6512.0	6495.2	6448.9	6389.9	6221.6
15°	6469.9	6385.7	6457.3	6596.2	6566.7	6587.8	6592.0	6575.2	6554.1	6444.7	6335.2
17.5°	6482.6	6432.0	6583.6	6613.0	6650.9	6726.7	6676.2	6672.0	6592.0	6516.2	6356.3
20°	6512.0	6491.0	6613.0	6768.8	6773.0	6785.6	6810.9	6747.7	6705.7	6575.2	6331.0
22.5°	6621.5	6693.0	6806.7	6874.0	6911.9	6920.3	6920.3	6794.1	6747.7	6642.5	6448.9
25°	6949.8	6874.0	7034.0	7114.0	7059.2	7046.6	7017.2	6903.5	6853.0	6760.4	6503.6
27.5°	7189.7	7185.5	7278.1	7387.6	7240.3	7269.7	7164.5	7130.8	7017.2	6966.6	6600.4
30°	7518.1	7610.7	7606.5	7640.2	7446.5	7480.2	7345.5	7282.3	7219.2	7248.7	6886.7
32.5°	7939.0	7905.3	7960.1	7934.8	7741.2	7770.6	7610.7	7513.9	7534.9	7623.3	7278.1
35°	8208.4	8174.8	8195.8	8195.8	8136.9	8103.2	8035.8	7909.6	8010.6	8174.8	7715.9
37.5°	8498.9	8541.0	8663.0	8637.8	8562.0	8562.0	8553.6	8465.2	8595.7	8999.8	8414.7
40°	8755.7	8869.3	8945.1	8995.6	9084.0	9084.0	9155.6	9105.0	9340.8	9989.0	9269.2
42.5°	9025.1	9029.3	9441.8	9479.7	9677.5	9761.7	9816.4	9858.5	10300.5	11024.6	10182.7
45°	9370.2	9391.3	9753.3	10043.7	10351.0	10380.5	10586.8	10725.7	11268.7	12156.9	11176.1
47.5°	9824.9	9799.6	10186.9	10649.9	11033.0	11235.0	11483.4	11634.9	12304.2	13386.1	12262.1
50°	10422.6	10346.8	10569.9	11298.2	11748.6	11971.7	12413.7	12666.2	13449.2	14560.5	13007.2
52.5°	11150.8	11024.6	11201.3	11996.9	12502.1	12952.5	13373.4	13655.5	14472.1	15469.7	13558.6
55°	11921.2	11660.2	11710.7	12737.8	13466.0	13891.2	14467.9	14762.5	15596.0	16286.4	14110.1
57.5°	12683.1	12518.9	12417.9	13449.2	14615.2	15023.5	15553.9	15937.0	16644.2	17010.4	14577.3
60°	13322.9	13280.8	13116.6	14552.1	15831.7	16181.1	16736.8	16972.5	17507.1	17679.7	14585.7
62.5°	13849.1	13706.0	13967.0	15440.3	17069.3	17465.0	18075.4	18096.4	18475.3	18096.4	14156.4
65°	14261.6	14270.0	14686.8	16513.7	18500.5	19085.7	19578.2	19523.4	19279.3	17848.1	13141.9
67.5°	14636.3	14796.2	15406.6	17692.3	20340.1	20891.5	21438.7	20714.7	19498.2	16686.3	11159.3
70°	14930.9	15090.9	16379.0	19127.7	22507.9	23316.1	23438.2	21186.2	18492.1	14135.3	8418.9
72.5°	14897.2	15187.7	16930.4	20272.7	24431.7	25130.4	24145.4	19860.2	15406.6	9854.3	4912.4
73°	14968.8	15111.9	16884.1	20592.6	25016.8	25366.2	23817.1	19443.5	14531.0	8839.8	4154.7
75°	13588.1	14072.2	16046.4	20070.7	24389.6	24326.4	21931.2	16202.2	10330.0	4643.0	2012.1
77.5°	10052.2	10359.5	12645.2	16505.3	20020.1	19616.0	16543.1	10355.2	4904.0	1721.7	1086.0
80°	4912.4	5152.4	6701.4	9530.2	13091.4	13125.1	10266.9	5388.1	2100.5	972.4	740.9
82.5°	2454.1	2597.2	3220.2	4188.4	6440.5	6747.7	5207.1	3064.5	1300.7	551.4	420.9
85°	1603.8	1704.8	1982.7	2050.0	2731.9	2883.5	2424.6	2391.0	846.1	298.9	341.0
87.5°	1065.0	1081.8	1216.5	1035.5	1094.5	1052.4	1170.2	1507.0	248.4	126.3	92.6
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°	6697.2	6697.2	6697.2	6697.2	6697.2	6697.2	6697.2	6697.2	6697.2	6697.2	6697.2
2.5°	6676.2	6617.3	6554.1	6465.7	6402.6	6305.8	6217.4	6179.5	6171.1	6175.3	6133.2
5°	6503.6	6419.4	6293.1	6112.1	6006.9	5846.9	5712.2	5640.7	5564.9	5577.5	5543.8
7.5°	6263.7	6171.1	5977.4	5766.9	5506.0	5278.7	5152.4	4975.6	4874.5	4798.8	4840.9
10°	6187.9	6027.9	5737.5	5447.0	5042.9	4744.1	4453.6	4251.5	4112.6	3977.9	4036.9
12.5°	6150.0	5990.0	5585.9	5156.6	4634.6	4180.0	3771.7	3523.3	3325.5	3207.6	3253.9
15°	6116.3	5918.5	5442.8	4836.7	4251.5	3653.8	3195.0	2866.6	2677.2	2563.6	2576.2
17.5°	6162.6	5880.6	5232.3	4525.2	3830.6	3190.8	2681.4	2340.5	2146.8	2075.3	2058.4
20°	6116.3	5838.5	5026.1	4213.7	3409.7	2748.8	2260.5	1978.4	1843.7	1784.8	1772.2
22.5°	6133.2	5737.5	4811.4	3868.5	3018.2	2378.3	1978.4	1763.8	1658.5	1629.1	1637.5
25°	6213.1	5678.5	4596.7	3489.6	2630.9	2104.7	1797.4	1633.3	1557.5	1528.0	1536.4
27.5°	6272.1	5729.1	4403.1	3131.8	2302.6	1860.6	1645.9	1536.4	1485.9	1464.9	1460.7
30°	6419.4	5758.5	4213.7	2811.9	2033.2	1700.6	1540.7	1452.3	1418.6	1406.0	1401.7
32.5°	6638.3	5813.3	3994.8	2517.3	1835.3	1549.1	1456.5	1380.7	1372.3	1359.7	1363.9
35°	6996.1	6002.7	3750.6	2264.7	1645.9	1448.1	1368.1	1317.6	1317.6	1317.6	1330.2
37.5°	7509.7	6267.9	3531.7	2024.7	1523.8	1359.7	1292.3	1275.5	1267.0	1279.7	1288.1
40°	8170.5	6587.8	3354.9	1835.3	1418.6	1300.7	1241.8	1233.4	1229.2	1225.0	1233.4
42.5°	8894.6	6996.1	3203.4	1688.0	1342.8	1237.6	1195.5	1187.1	1170.2	1178.6	1191.3
45°	9614.4	7501.2	3068.7	1570.1	1292.3	1203.9	1145.0	1140.8	1132.3	1128.1	1149.2
47.5°	10414.2	7998.0	3026.6	1498.6	1254.4	1153.4	1111.3	1107.1	1081.8	1077.6	1094.5
50°	11037.2	8364.2	3072.9	1464.9	1199.7	1115.5	1086.0	1065.0	1043.9	1022.9	1022.9
52.5°	11466.5	8616.7	3106.6	1439.6	1170.2	1065.0	1027.1	1018.7	997.6	976.6	968.2
55°	11853.8	8768.3	3115.0	1443.8	1140.8	1006.1	980.8	976.6	964.0	930.3	921.9
57.5°	11984.3	8705.1	2946.6	1406.0	1123.9	968.2	934.5	942.9	926.1	896.6	892.4
60°	11971.7	8267.4	2563.6	1355.4	1086.0	926.1	884.0	909.2	909.2	875.6	871.4
62.5°	11243.4	7257.1	2096.3	1258.6	1043.9	884.0	837.7	875.6	888.2	867.1	862.9
65°	9732.3	5910.1	1751.1	1161.8	980.8	837.7	791.4	833.5	854.5	846.1	841.9
67.5°	8052.7	4521.0	1456.5	1035.5	900.8	774.5	736.7	766.1	778.7	783.0	787.2
70°	5691.2	3009.8	1216.5	896.6	791.4	707.2	665.1	669.3	665.1	677.7	677.7
72.5°	3093.9	1734.3	989.2	761.9	681.9	614.6	585.1	564.1	564.1	559.9	559.9
73°	2647.7	1557.5	942.9	740.9	652.5	597.7	564.1	547.2	547.2	543.0	538.8
75°	1485.9	1140.8	808.2	635.6	564.1	522.0	496.7	471.5	467.2	467.2	467.2
77.5°	976.6	888.2	644.0	509.3	454.6	416.7	408.3	383.1	383.1	383.1	378.9
80°	732.4	698.8	496.7	387.3	349.4	319.9	311.5	294.7	290.5	273.6	277.8
82.5°	488.3	551.4	362.0	273.6	235.7	218.9	218.9	214.7	202.1	181.0	181.0
85°	387.3	450.4	261.0	168.4	138.9	117.9	122.1	117.9	113.7	92.6	88.4
87.5°	71.6	181.0	75.8	46.3	33.7	21.0	21.0	12.6	8.4	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)