

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: P480278

Luminaire Tested: **IFLD-S-SA6B-830-U-SL2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480278
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6B-830-U-SL2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens
Light Source: (96) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

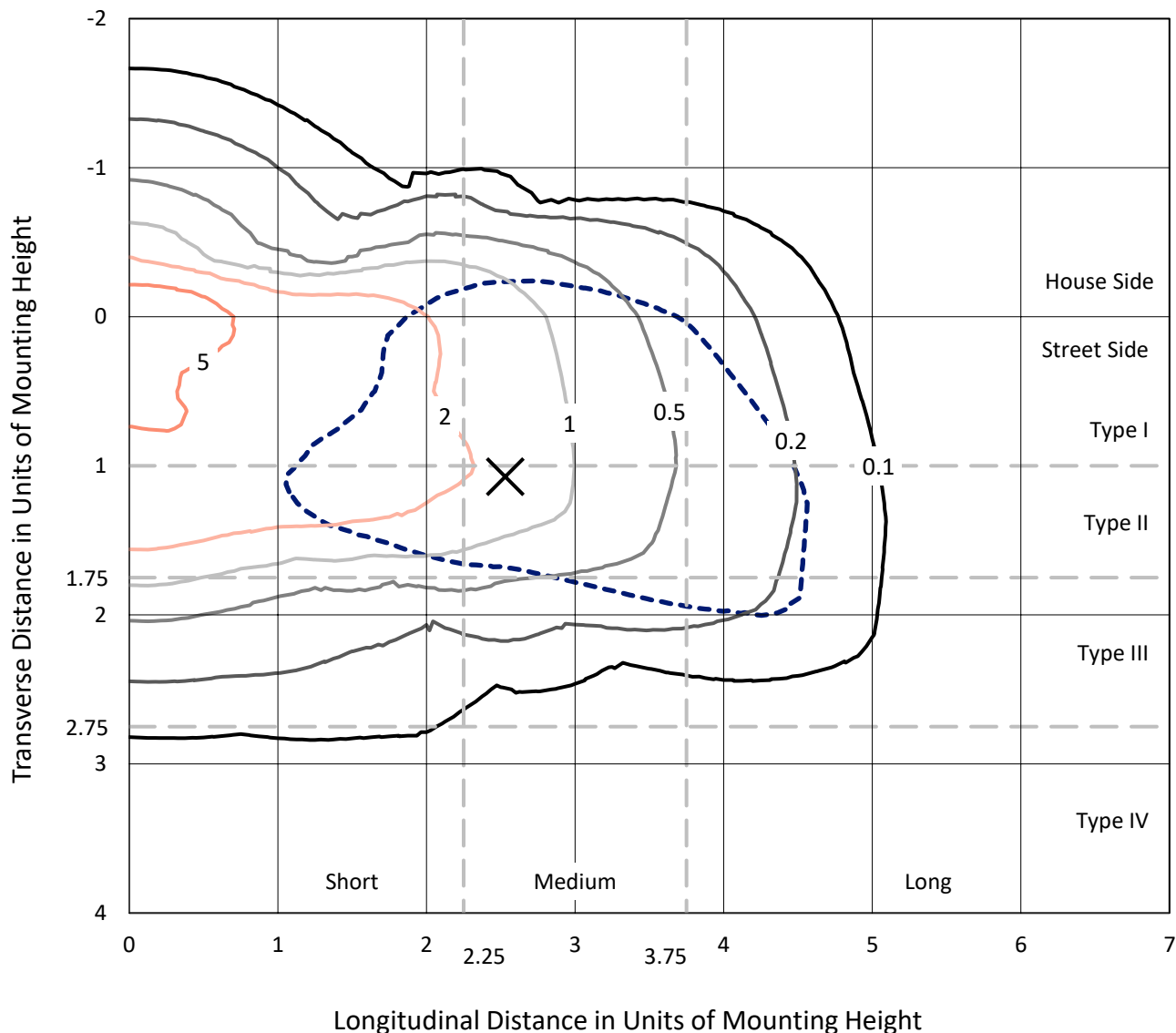
Lumens per Lamp: N/A
Luminaire Lumens: 26445.5 lumens
Efficiency: N/A
Efficacy: 108.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

Input Watts (W): 244.9
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

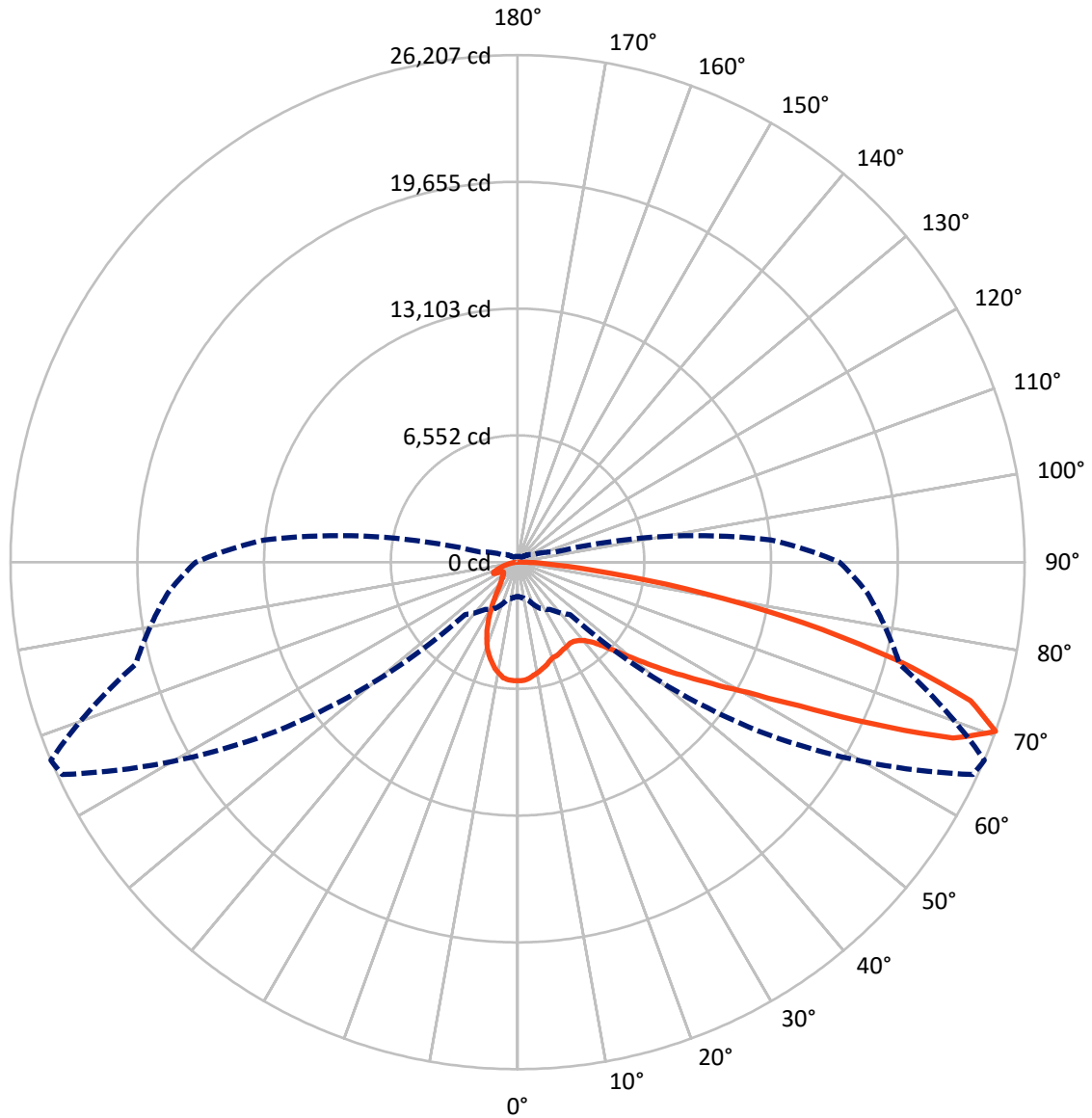
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.9 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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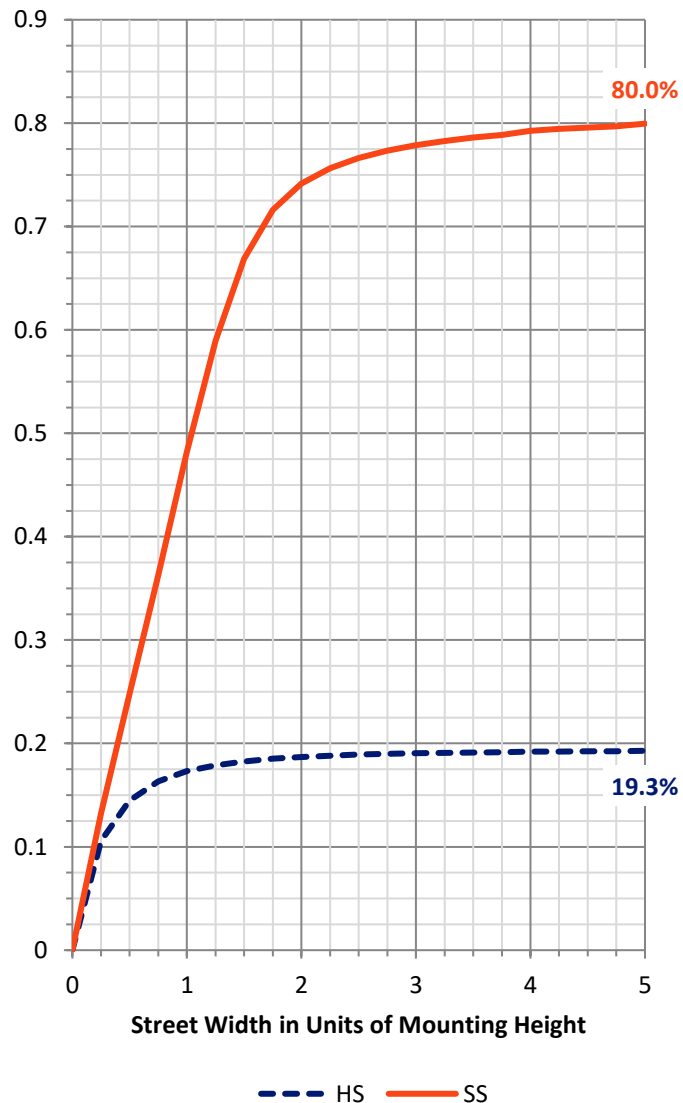
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5150.5	0.0	5150.5
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	21295.0	0.0	21295.0
	% Fixture	80.5	0.0	80.5
Total	Lumens	26445.5	0.0	26445.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	534.2	2.0
10°-20°	1279.3	4.8
20°-30°	1727.6	6.5
30°-40°	2311.7	8.7
40°-50°	3399.3	12.9
50°-60°	5298.6	20.0
60°-70°	6527.0	24.7
70°-80°	4611.9	17.4
80°-90°	755.9	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°	26445.5	100.0
0°-180°	26445.5	100.0

Coefficient of Utilization

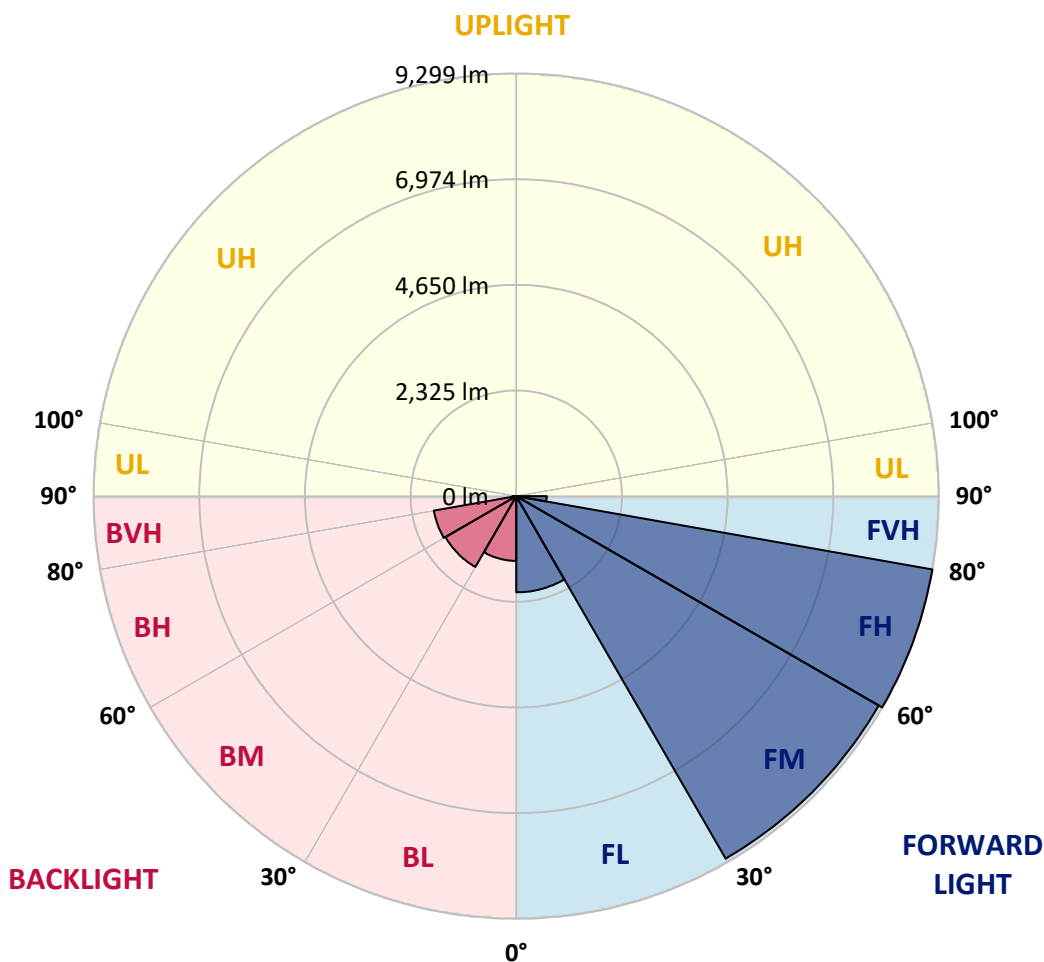


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2116.8	8.0			
FM (30°-60°)	9210.4	34.8			
FH (60°-80°)	9299.1	35.2			G4/12000
FVH (80°-90°)	668.7	2.5			G4/750
BL (0°-30°)	1424.3	5.4	B3/2500		
BM (30°-60°)	1799.2	6.8	B2/2500		
BH (60°-80°)	1839.8	7.0	B3/2500		G3/2500
BVH (80°-90°)	87.2	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	6122.0	6122.0	6122.0	6122.0	6122.0	6122.0	6122.0	6122.0	6122.0	6122.0	6122.0
2.5°	5700.4	5764.8	5788.3	5823.4	5914.2	5981.5	6022.5	6069.3	6125.0	6171.8	6201.1
5°	5302.3	5337.4	5393.0	5431.1	5545.3	5726.8	5849.8	6048.8	6043.0	6116.2	6227.4
7.5°	4915.8	4950.9	4977.3	5053.4	5217.3	5381.3	5606.7	5928.8	5905.4	6075.2	6247.9
10°	4675.7	4649.4	4658.1	4787.0	4915.8	5100.2	5384.2	5712.1	5797.1	6060.6	6306.5
12.5°	4450.3	4421.0	4491.3	4573.2	4731.3	4898.2	5237.8	5533.6	5662.4	6007.9	6332.8
15°	4309.7	4289.2	4377.1	4412.2	4599.6	4798.7	5038.8	5398.9	5539.4	5943.4	6291.9
17.5°	4230.7	4248.2	4280.4	4356.6	4476.6	4646.4	4909.9	5308.1	5369.6	5864.4	6283.1
20°	4245.3	4265.8	4268.7	4300.9	4382.9	4514.7	4784.0	5211.5	5252.5	5849.8	6306.5
22.5°	4362.4	4333.2	4344.9	4324.4	4347.8	4450.3	4687.4	5082.7	5240.8	5726.8	6256.7
25°	4538.1	4497.1	4491.3	4421.0	4377.1	4406.3	4669.8	5050.5	5152.9	5688.7	6253.8
27.5°	4848.4	4787.0	4787.0	4681.6	4503.0	4456.1	4620.1	4997.8	5088.5	5653.6	6186.5
30°	5147.1	5147.1	5150.0	5000.7	4801.6	4570.3	4640.6	4977.3	5035.8	5548.2	6095.7
32.5°	5510.1	5501.3	5486.7	5413.5	5106.1	4760.6	4740.1	4950.9	4980.2	5513.1	6069.3
35°	5864.4	5841.0	5955.2	5890.7	5577.5	5132.4	4842.6	4962.6	5027.0	5460.4	5987.4
37.5°	6130.8	6145.5	6382.6	6423.6	6154.2	5554.0	5132.4	5079.7	5141.2	5536.5	5987.4
40°	6476.3	6534.9	6757.4	6895.0	6731.0	6110.3	5592.1	5275.9	5319.8	5706.3	6116.2
42.5°	6930.1	6979.9	7263.9	7442.5	7395.6	6818.9	6045.9	5685.8	5650.7	5990.3	6309.4
45°	7530.3	7539.1	7826.0	8072.0	8168.6	7559.6	6766.2	6204.0	6174.7	6479.2	6663.7
47.5°	8244.7	8235.9	8414.5	8678.0	8938.6	8443.8	7594.7	6991.6	6886.2	7179.0	7252.2
50°	8935.7	8897.6	8938.6	9275.3	9775.9	9550.5	8601.9	7954.8	7849.4	8010.5	8136.4
52.5°	9316.3	9363.1	9251.9	9696.9	10666.0	10859.2	9937.0	9105.5	9014.7	9093.8	9313.3
55°	9049.8	9146.5	9073.3	9494.9	11055.4	12454.9	11664.4	10437.6	10320.5	10291.2	10651.4
57.5°	7916.8	8092.5	8107.1	8774.6	10920.7	13690.4	14094.4	12009.9	11834.2	11535.5	11907.4
60°	6078.1	6253.8	6388.5	7179.0	9767.2	14428.2	16911.0	14246.7	13667.0	12894.1	13116.6
62.5°	4260.0	4380.0	4514.7	5000.7	7530.3	13994.9	19346.9	17397.0	16328.4	14325.7	14603.9
65°	3103.5	3197.2	3334.8	3621.7	4625.9	11579.5	20477.1	21138.7	20125.7	16146.8	16111.7
67.5°	2336.4	2394.9	2576.5	3036.1	3205.9	7152.6	19305.9	25091.3	24271.5	18170.0	17323.8
70°	1768.4	1818.2	1988.0	2617.5	2995.1	3835.4	15230.4	25972.6	26206.8	20439.0	18137.7
72.5°	1218.0	1273.6	1463.9	2181.2	2851.7	3042.0	9559.3	23595.2	24482.3	21373.0	17265.3
75°	746.6	784.7	895.9	1654.2	2831.2	2974.6	5261.3	19335.2	20275.0	19748.0	15104.5
77.5°	527.0	524.1	544.6	969.1	2453.5	2992.2	3244.0	14167.6	15081.1	14554.1	10250.2
80°	383.5	386.5	407.0	579.7	1665.9	3042.0	2556.0	9489.0	9761.3	7588.9	4043.3
82.5°	231.3	243.0	292.8	392.3	1001.3	2746.3	2362.7	5273.0	4933.4	2435.9	1112.6
85°	123.0	123.0	172.7	248.9	532.9	2049.5	2274.9	2509.1	2102.2	755.4	412.8
87.5°	29.3	29.3	49.8	99.5	213.7	980.8	1551.7	998.4	799.3	254.7	169.8
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°	6122.0	6122.0	6122.0	6122.0	6122.0	6122.0	6122.0	6122.0	6122.0	6122.0	6122.0
2.5°	6189.4	6154.2	6198.2	6110.3	6040.1	6043.0	5934.7	5928.8	5914.2	5838.0	5864.4
5°	6259.6	6230.4	6180.6	6084.0	5928.8	5773.6	5679.9	5559.9	5510.1	5483.8	5495.5
7.5°	6327.0	6274.3	6130.8	5996.1	5756.1	5463.3	5293.5	5132.4	4927.5	4904.1	4863.1
10°	6344.6	6233.3	6048.8	5761.9	5442.8	5117.8	4731.3	4432.7	4274.6	4151.6	4104.8
12.5°	6318.2	6271.4	5917.1	5548.2	5065.1	4555.7	4104.8	3683.2	3390.4	3238.2	3197.2
15°	6315.3	6233.3	5770.7	5223.2	4605.4	3940.8	3299.6	2793.1	2485.7	2359.8	2359.8
17.5°	6318.2	6122.0	5598.0	4895.3	4063.8	3165.0	2459.4	2043.6	1873.8	1856.2	1870.9
20°	6259.6	6040.1	5416.4	4508.8	3384.5	2377.4	1786.0	1616.1	1616.1	1639.6	1648.4
22.5°	6206.9	5917.1	5129.5	4031.6	2693.6	1721.5	1452.2	1402.4	1458.0	1499.0	1516.6
25°	6133.7	5814.6	4836.7	3536.8	2049.5	1387.8	1261.9	1273.6	1326.3	1399.5	1393.6
27.5°	6028.3	5636.0	4488.3	2962.9	1525.4	1197.5	1165.3	1171.1	1226.7	1259.0	1253.1
30°	5908.3	5454.5	4166.3	2392.0	1209.2	1097.9	1095.0	1109.6	1118.4	1136.0	1133.1
32.5°	5756.1	5214.4	3823.7	1859.2	1089.1	1042.3	1030.6	1021.8	1030.6	1027.7	1018.9
35°	5647.7	5085.6	3475.3	1417.1	1021.8	992.5	983.7	969.1	957.4	939.8	936.9
37.5°	5618.5	4956.8	3109.3	1156.5	969.1	954.5	925.2	898.8	884.2	875.4	869.6
40°	5600.9	4871.9	2752.1	1015.9	925.2	910.5	875.4	840.3	825.6	816.9	819.8
42.5°	5662.4	4825.0	2389.1	945.7	887.1	860.8	822.7	781.7	778.8	772.9	781.7
45°	5879.0	4883.6	2052.4	895.9	849.1	805.1	755.4	734.9	732.0	726.1	732.0
47.5°	6370.9	5030.0	1765.5	863.7	808.1	770.0	717.3	688.0	685.1	682.2	682.2
50°	7050.2	5480.8	1525.4	825.6	781.7	729.0	679.3	647.0	641.2	629.5	629.5
52.5°	8115.9	6239.2	1381.9	805.1	734.9	691.0	638.3	603.1	588.5	576.8	576.8
55°	9316.3	7179.0	1355.6	770.0	685.1	644.1	597.3	562.1	547.5	532.9	527.0
57.5°	10683.6	8423.3	1543.0	746.6	650.0	597.3	544.6	512.4	500.7	486.0	480.2
60°	11957.2	9664.7	2125.6	711.5	617.8	553.4	500.7	468.4	453.8	439.2	439.2
62.5°	13429.8	11201.8	3112.3	711.5	588.5	506.5	453.8	430.4	421.6	407.0	404.0
65°	15171.9	12791.6	3832.5	755.4	579.7	465.5	409.9	386.5	377.7	368.9	366.0
67.5°	16498.2	13705.1	3296.7	872.5	617.8	430.4	366.0	351.3	345.5	336.7	330.8
70°	16638.7	13148.8	1988.0	942.8	655.8	395.3	327.9	313.3	313.3	304.5	298.6
72.5°	15376.8	11667.3	1338.0	840.3	594.3	354.3	289.9	278.1	272.3	266.4	263.5
75°	12867.7	9896.0	1056.9	670.5	456.7	292.8	251.8	240.1	231.3	228.4	222.5
77.5°	8642.9	6432.4	781.7	524.1	336.7	237.2	210.8	199.1	190.3	187.4	178.6
80°	3320.1	2450.6	503.6	380.6	237.2	187.4	166.9	155.2	149.3	140.5	134.7
82.5°	977.9	793.4	281.1	234.2	152.2	128.8	120.0	111.3	102.5	93.7	90.8
85°	404.0	363.0	172.7	123.0	93.7	76.1	70.3	61.5	52.7	46.8	41.0
87.5°	187.4	155.2	79.1	46.8	32.2	17.6	8.8	2.9	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)