

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: P480394

Luminaire Tested: **IFLD-S-SA6A-727-U-SL3**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480394
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6A-727-U-SL3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens
Light Source: (96) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

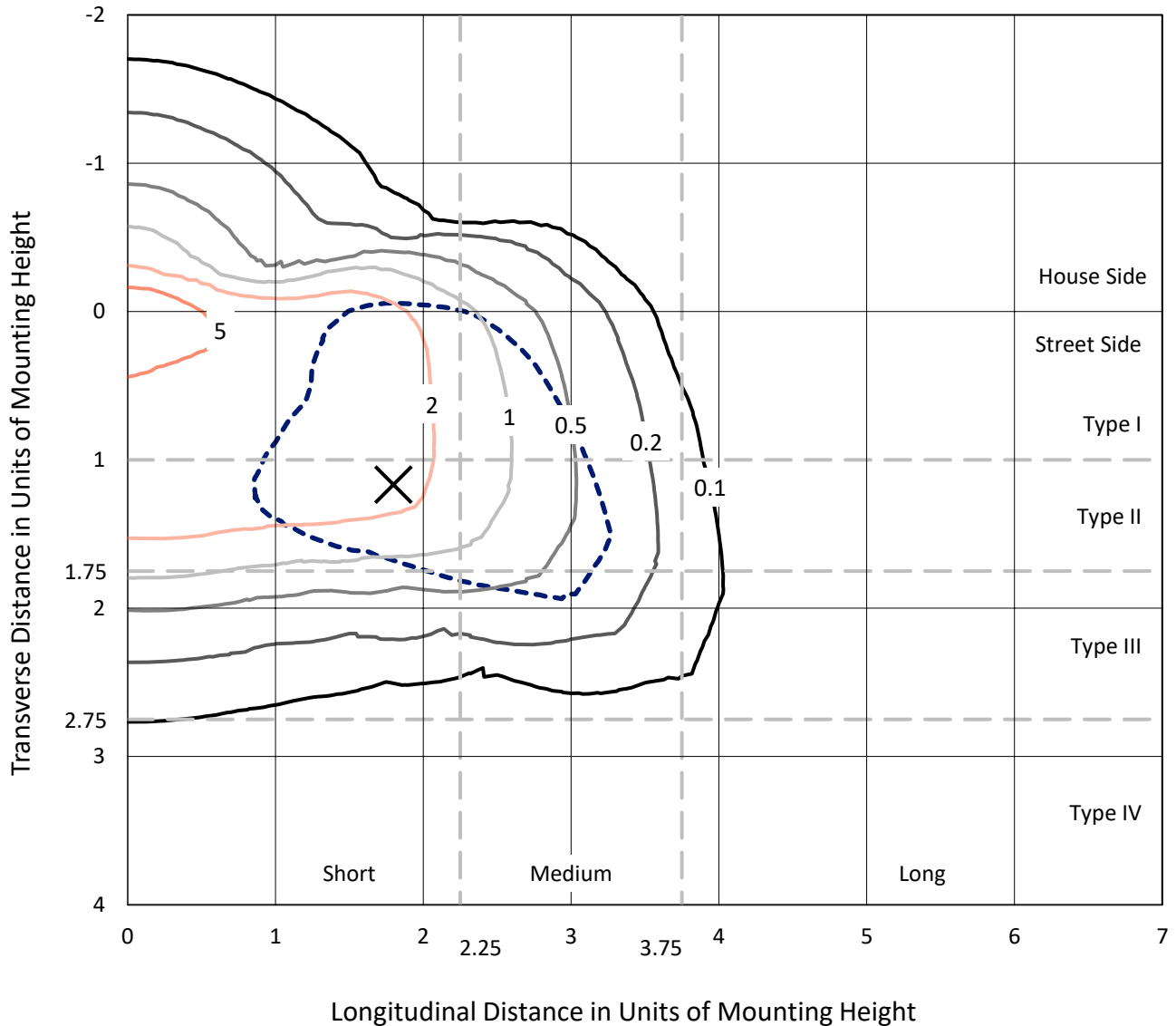
Lumens per Lamp: N/A
Luminaire Lumens: 22272.1 lumens
Efficiency: N/A
Efficacy: 117.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 189.6
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

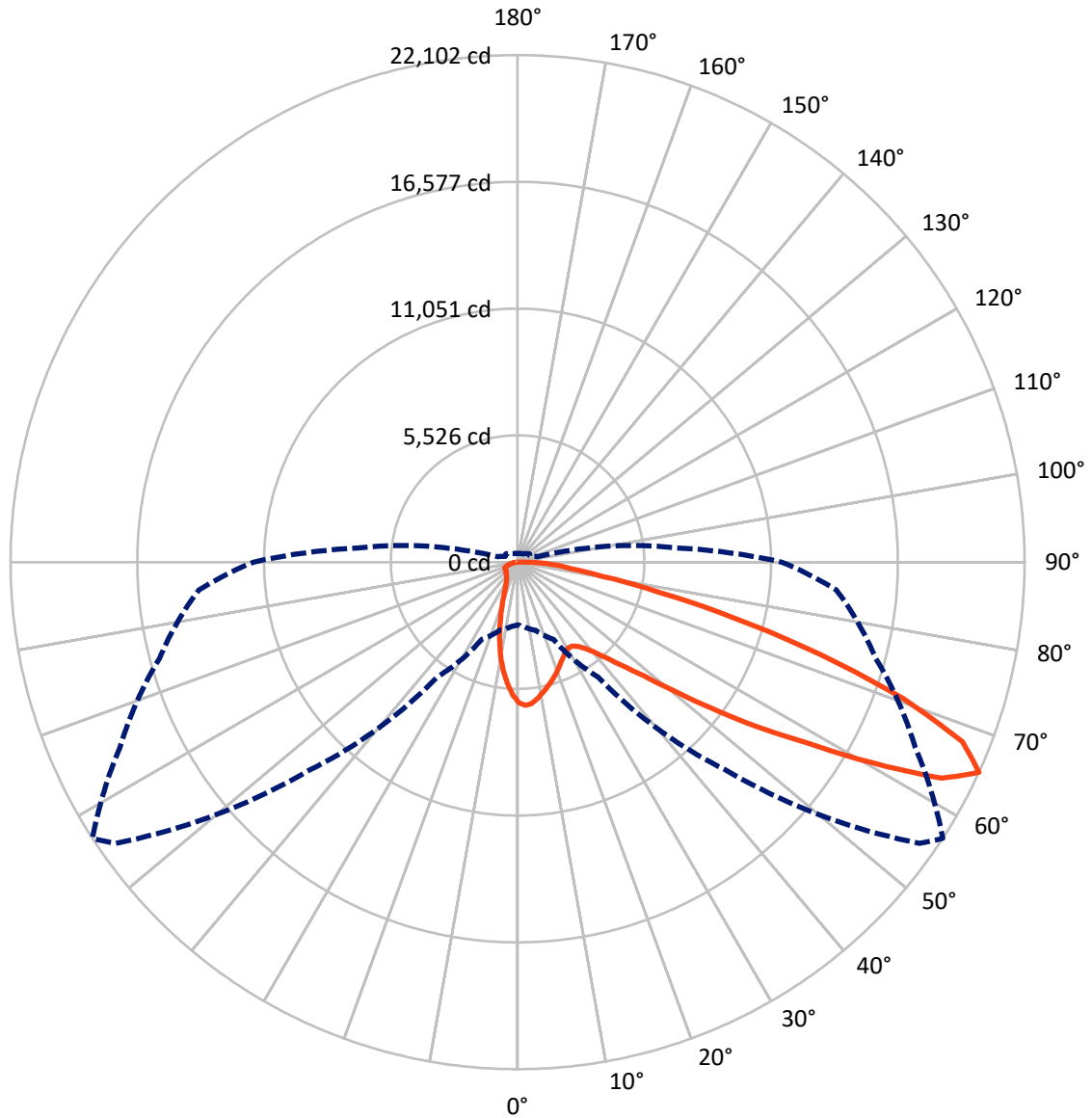
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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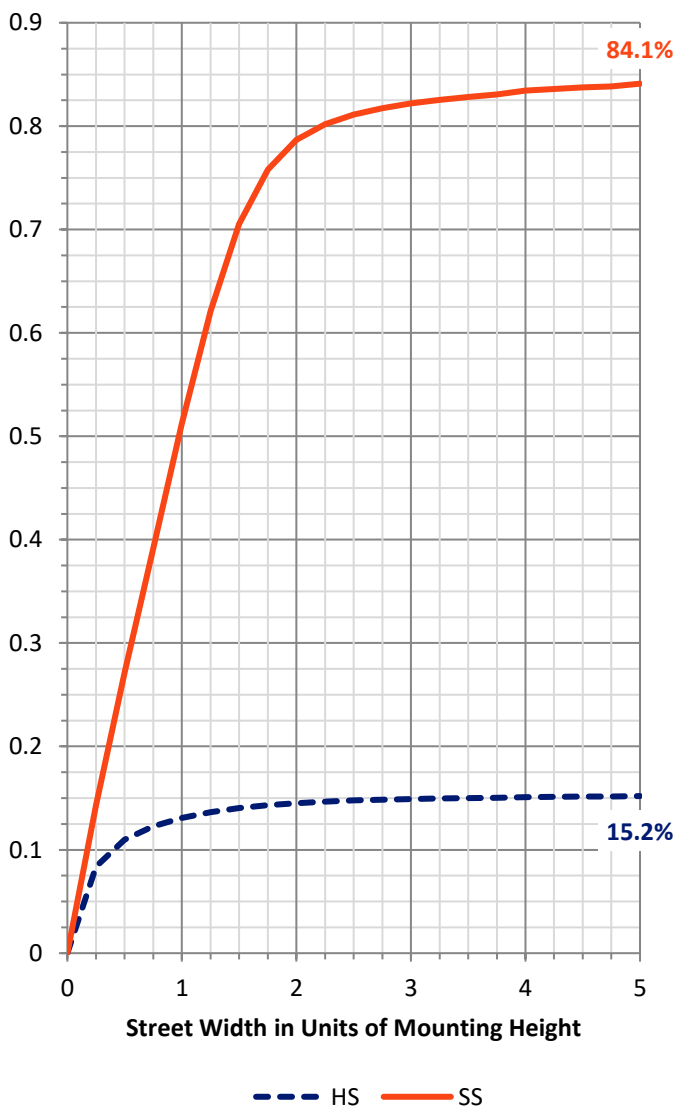
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3415.6	0.0	3415.6
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	18856.4	0.0	18856.4
	% Fixture	84.7	0.0	84.7
Total	Lumens	22272.1	0.0	22272.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	512.9	2.3
10°-20°	1103.8	5.0
20°-30°	1427.1	6.4
30°-40°	1920.4	8.6
40°-50°	3062.2	13.7
50°-60°	5408.6	24.3
60°-70°	5950.2	26.7
70°-80°	2489.1	11.2
80°-90°	397.8	1.8
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°	22272.1	100.0
0°-180°	22272.1	100.0

Coefficient of Utilization



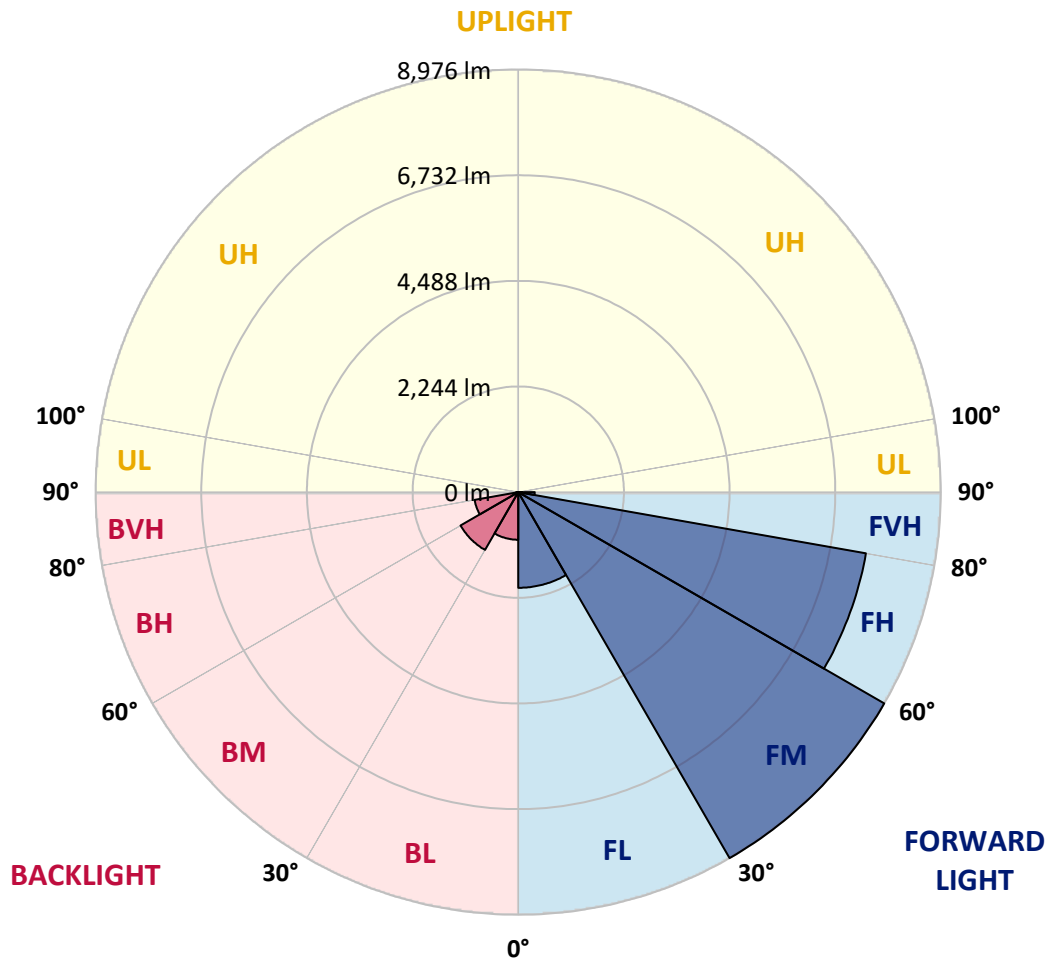
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2032.2	9.1			
FM (30°-60°)	8975.6	40.3			
FH (60°-80°)	7497.4	33.7			G3/7500
FVH (80°-90°)	351.1	1.6			G3/500
BL (0°-30°)	1011.5	4.5	B3/2500		
BM (30°-60°)	1415.6	6.4	B2/2500		
BH (60°-80°)	941.8	4.2	B2/1000		G2/1000
BVH (80°-90°)	46.7	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-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	6124.5	6124.5	6124.5	6124.5	6124.5	6124.5	6124.5	6124.5	6124.5	6124.5	6124.5
2.5°	6289.9	6299.9	6299.9	6320.0	6252.3	6284.9	6279.9	6249.8	6259.8	6207.2	6154.6
5°	6112.0	6104.5	6144.6	6149.6	6202.2	6217.2	6229.8	6209.7	6214.7	6099.4	6049.3
7.5°	5655.9	5653.4	5721.0	5778.7	5888.9	5991.7	6059.3	6039.3	6066.9	5994.2	5876.4
10°	5114.6	5172.2	5242.4	5300.1	5503.0	5633.3	5808.8	5826.3	5931.5	5914.0	5701.0
12.5°	4708.7	4733.7	4786.3	4951.7	5137.2	5352.7	5603.3	5625.8	5728.6	5778.7	5593.2
15°	4375.4	4397.9	4465.6	4588.4	4796.4	5052.0	5370.2	5427.9	5633.3	5650.9	5452.9
17.5°	4132.3	4149.8	4194.9	4317.7	4488.1	4816.4	5117.1	5219.9	5490.5	5575.7	5307.6
20°	4037.1	3999.5	4024.5	4102.2	4272.6	4525.7	4914.1	5004.4	5350.2	5518.1	5169.7
22.5°	3994.5	3961.9	3976.9	3971.9	4107.2	4287.7	4696.1	4791.3	5217.4	5450.4	5047.0
25°	4027.0	4027.0	4012.0	3999.5	4014.5	4132.3	4460.6	4608.4	5039.4	5392.8	4921.7
27.5°	4202.5	4134.8	4142.3	4089.7	4074.6	4074.6	4355.3	4443.0	4981.8	5360.2	4818.9
30°	4315.2	4347.8	4350.3	4272.6	4194.9	4054.6	4257.6	4342.8	4934.2	5400.3	4758.8
32.5°	4603.4	4588.4	4545.8	4530.7	4415.5	4257.6	4305.2	4362.8	4906.6	5490.5	4776.3
35°	4891.6	4884.1	4886.6	4879.1	4758.8	4525.7	4433.0	4510.7	4956.7	5648.4	4836.5
37.5°	5189.8	5209.8	5295.0	5295.0	5167.2	4914.1	4791.3	4768.8	5139.7	5906.5	4979.3
40°	5488.0	5538.1	5645.9	5816.3	5635.8	5400.3	5202.3	5167.2	5360.2	6252.3	5322.6
42.5°	5773.7	5856.4	6069.4	6322.5	6262.3	6026.8	5763.6	5723.6	5813.8	6766.0	5801.2
45°	6139.5	6209.7	6545.5	6933.9	7016.6	6808.6	6500.4	6467.8	6462.8	7517.8	6460.3
47.5°	6695.9	6771.0	7106.8	7497.8	7753.4	7785.9	7440.1	7405.0	7284.8	8532.7	7425.1
50°	7392.5	7515.3	7798.5	8254.5	8625.4	8973.8	8876.0	8773.3	8537.7	9713.0	8648.0
52.5°	7901.2	8051.6	8435.0	9018.9	9672.9	10226.7	10577.5	10577.5	10036.3	11008.6	10119.0
55°	8036.5	8126.7	8610.4	9454.9	10575.0	11975.9	12710.1	12655.0	11820.5	12371.8	11830.5
57.5°	7497.8	7615.5	8201.9	9086.5	11048.7	13612.2	14827.6	14840.1	13770.1	13955.5	13519.5
60°	6014.2	6051.8	6743.5	7926.3	10592.6	14930.4	17719.5	17767.1	15987.9	15366.4	14379.1
62.5°	4157.3	4277.6	4798.9	5836.3	8775.8	14782.5	20508.6	20744.1	17764.6	16110.7	14514.4
65°	2736.5	2809.2	3087.3	3718.8	6109.5	12812.8	21375.6	22102.3	19122.8	16153.3	13948.0
67.5°	1984.7	1997.2	2079.9	2405.7	3671.2	9214.3	19894.6	20919.5	19631.5	15797.4	12619.9
70°	1603.8	1613.8	1643.9	1851.9	2370.6	5766.2	16225.9	17832.2	18105.4	14110.9	10164.1
72.5°	1303.1	1315.6	1353.2	1548.7	1954.6	3207.6	11865.6	13822.7	14727.4	10439.7	6756.0
75°	1024.9	1035.0	1125.2	1318.1	1836.8	2202.7	7871.1	9788.2	9911.0	6101.9	3162.5
77.5°	701.7	719.2	829.5	1117.6	1729.1	1927.1	4906.6	6269.8	5625.8	2388.2	1087.6
80°	446.1	471.1	536.3	847.0	1528.6	1839.4	3052.2	3743.9	2463.3	816.9	523.7
82.5°	263.1	288.2	353.3	548.8	1200.3	1706.5	2150.1	2343.0	1155.2	418.5	315.7
85°	145.3	162.9	213.0	330.8	704.2	1516.1	1721.6	1681.5	661.6	223.0	198.0
87.5°	47.6	55.1	77.7	132.8	290.7	714.2	1032.4	969.8	343.3	102.7	77.7
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°	6124.5	6124.5	6124.5	6124.5	6124.5	6124.5	6124.5	6124.5	6124.5	6124.5	6124.5
2.5°	6119.5	6112.0	5999.2	5914.0	5768.7	5648.4	5600.8	5535.6	5533.1	5485.5	5473.0
5°	5971.6	5894.0	5721.0	5555.7	5297.5	5124.6	4966.8	4856.5	4811.4	4713.7	4691.1
7.5°	5781.2	5678.4	5412.8	5102.1	4798.9	4528.2	4282.6	4037.1	3899.2	3851.6	3799.0
10°	5583.2	5402.8	5009.4	4661.0	4237.5	3821.5	3435.6	3089.8	2901.9	2769.1	2711.4
12.5°	5425.3	5184.8	4683.6	4162.4	3603.5	3047.2	2598.7	2235.3	2022.3	1922.1	1876.9
15°	5247.4	4929.2	4327.7	3668.7	2972.0	2340.5	1902.0	1616.3	1531.1	1483.5	1476.0
17.5°	5059.5	4691.1	3941.8	3182.5	2355.6	1761.7	1478.5	1363.2	1325.6	1305.6	1295.6
20°	4884.1	4478.1	3545.9	2641.3	1844.4	1413.3	1280.5	1220.4	1217.9	1227.9	1225.4
22.5°	4636.0	4199.9	3155.0	2140.1	1473.5	1230.4	1145.2	1130.2	1145.2	1157.7	1162.8
25°	4495.6	3971.9	2718.9	1699.0	1217.9	1092.6	1065.0	1060.0	1082.6	1097.6	1095.1
27.5°	4350.3	3736.3	2313.0	1360.7	1067.5	994.9	989.8	994.9	1017.4	1040.0	1037.5
30°	4237.5	3548.4	1932.1	1137.7	952.3	924.7	919.7	924.7	937.2	939.7	939.7
32.5°	4144.8	3325.4	1608.8	987.3	882.1	859.5	864.5	862.0	864.5	867.1	869.6
35°	4089.7	3192.6	1343.2	894.6	824.5	806.9	804.4	796.9	799.4	801.9	799.4
37.5°	4207.5	3127.4	1132.7	829.5	784.4	769.3	764.3	759.3	751.8	751.8	751.8
40°	4385.4	3092.3	1004.9	786.9	754.3	736.7	721.7	716.7	716.7	719.2	721.7
42.5°	4738.7	3150.0	917.2	754.3	716.7	696.6	681.6	684.1	691.6	699.2	694.1
45°	5249.9	3325.4	877.1	729.2	694.1	666.6	656.6	654.0	661.6	674.1	684.1
47.5°	5919.0	3598.5	862.0	706.7	679.1	641.5	629.0	636.5	646.5	664.1	656.6
50°	7014.1	4212.5	874.6	686.6	656.6	629.0	614.0	606.4	614.0	626.5	631.5
52.5°	8445.0	5327.6	922.2	676.6	641.5	619.0	593.9	581.4	588.9	598.9	598.9
55°	10156.6	6851.2	1055.0	664.1	616.5	603.9	576.4	551.3	556.3	556.3	553.8
57.5°	11665.1	8001.4	1212.9	646.5	601.4	583.9	548.8	518.7	513.7	516.2	518.7
60°	12341.7	8307.2	1288.1	641.5	601.4	558.8	511.2	481.1	473.6	468.6	468.6
62.5°	12223.9	7778.4	1135.2	619.0	616.5	538.8	476.1	443.6	433.5	423.5	426.0
65°	11512.3	7024.1	894.6	588.9	619.0	526.2	441.0	408.5	390.9	378.4	375.9
67.5°	10211.7	5996.7	709.2	566.3	593.9	503.7	411.0	373.4	358.3	345.8	340.8
70°	7988.9	4701.1	616.5	536.3	533.8	448.6	375.9	343.3	320.8	305.7	305.7
72.5°	5179.8	2972.0	528.8	476.1	461.1	375.9	325.8	305.7	288.2	275.7	275.7
75°	2345.6	1380.8	426.0	398.4	375.9	300.7	275.7	265.6	250.6	238.1	238.1
77.5°	842.0	588.9	318.3	313.2	280.7	233.1	223.0	215.5	205.5	193.0	193.0
80°	471.1	373.4	238.1	228.0	195.5	172.9	160.4	160.4	155.4	147.9	145.3
82.5°	298.2	243.1	175.4	152.9	127.8	115.3	110.3	107.8	105.2	95.2	92.7
85°	187.9	165.4	115.3	90.2	75.2	57.6	55.1	52.6	47.6	42.6	42.6
87.5°	85.2	95.2	45.1	27.6	20.0	12.5	7.5	2.5	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)