

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: P480239

Luminaire Tested: **IFLD-S-SA6B-827-U-SL2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480239
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6B-827-U-SL2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens
Light Source: (96) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

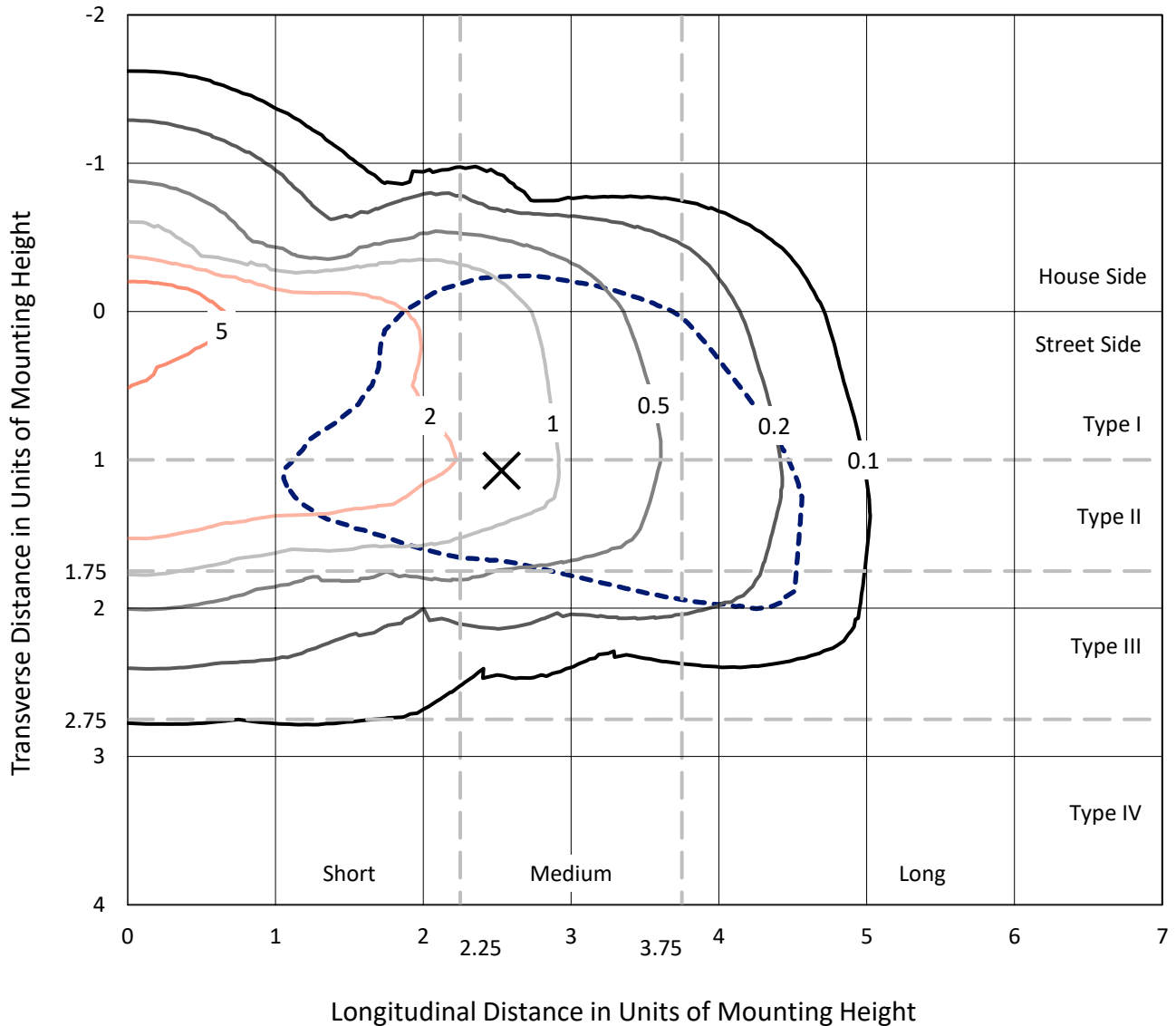
Lumens per Lamp: N/A
Luminaire Lumens: 24465.2 lumens
Efficiency: N/A
Efficacy: 99.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

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

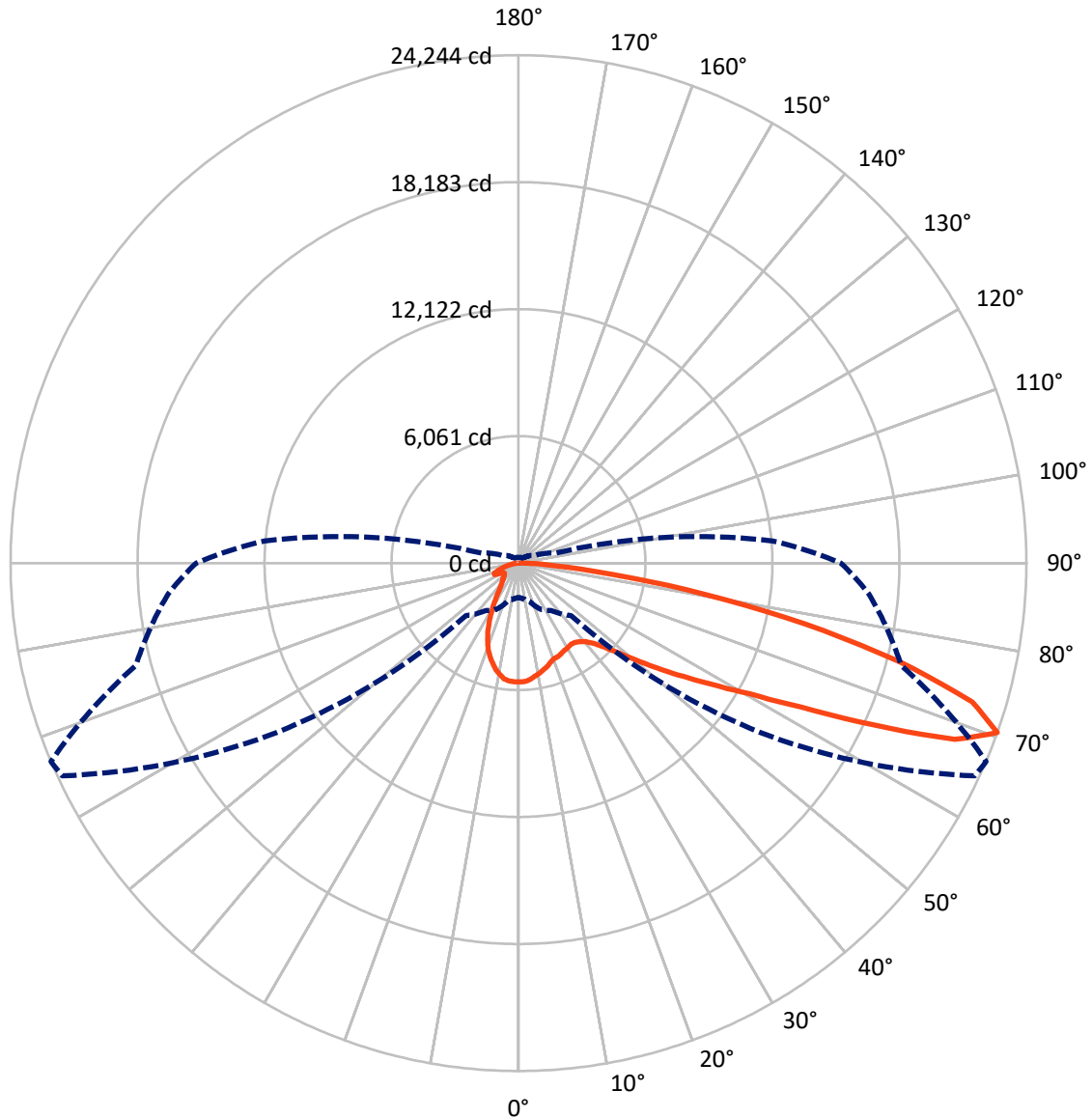
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.1 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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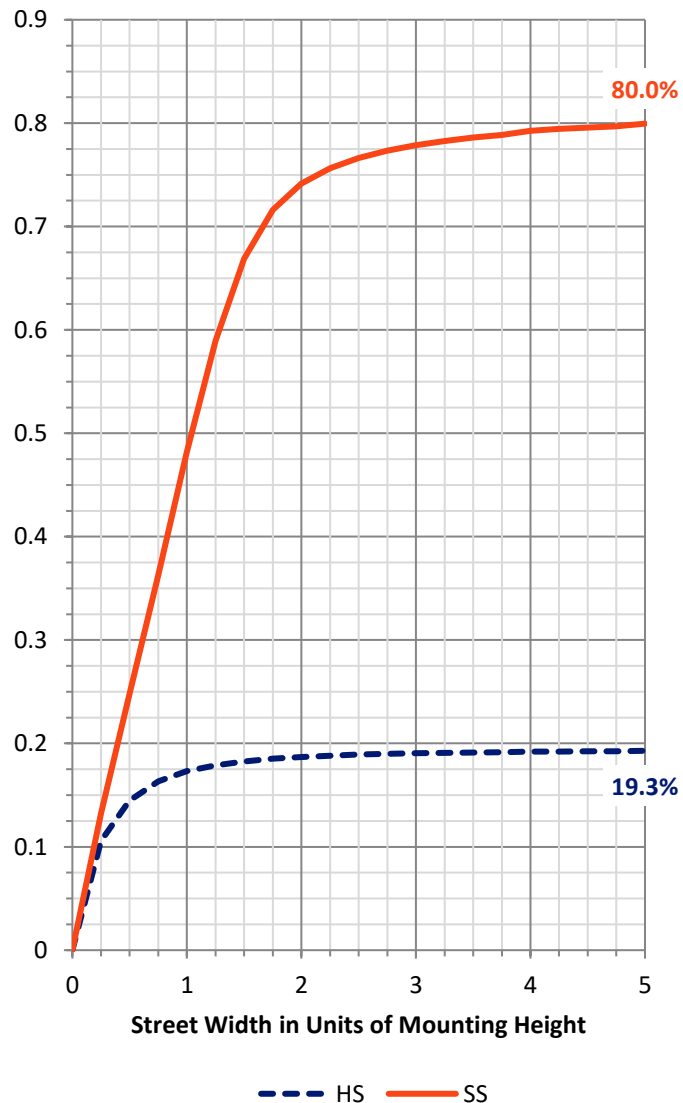
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4764.8	0.0	4764.8
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	19700.4	0.0	19700.4
	% Fixture	80.5	0.0	80.5
Total	Lumens	24465.2	0.0	24465.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	494.2	2.0
10°-20°	1183.5	4.8
20°-30°	1598.2	6.5
30°-40°	2138.6	8.7
40°-50°	3144.7	12.9
50°-60°	4901.9	20.0
60°-70°	6038.3	24.7
70°-80°	4266.6	17.4
80°-90°	699.3	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°	24465.2	100.0
0°-180°	24465.2	100.0

Coefficient of Utilization

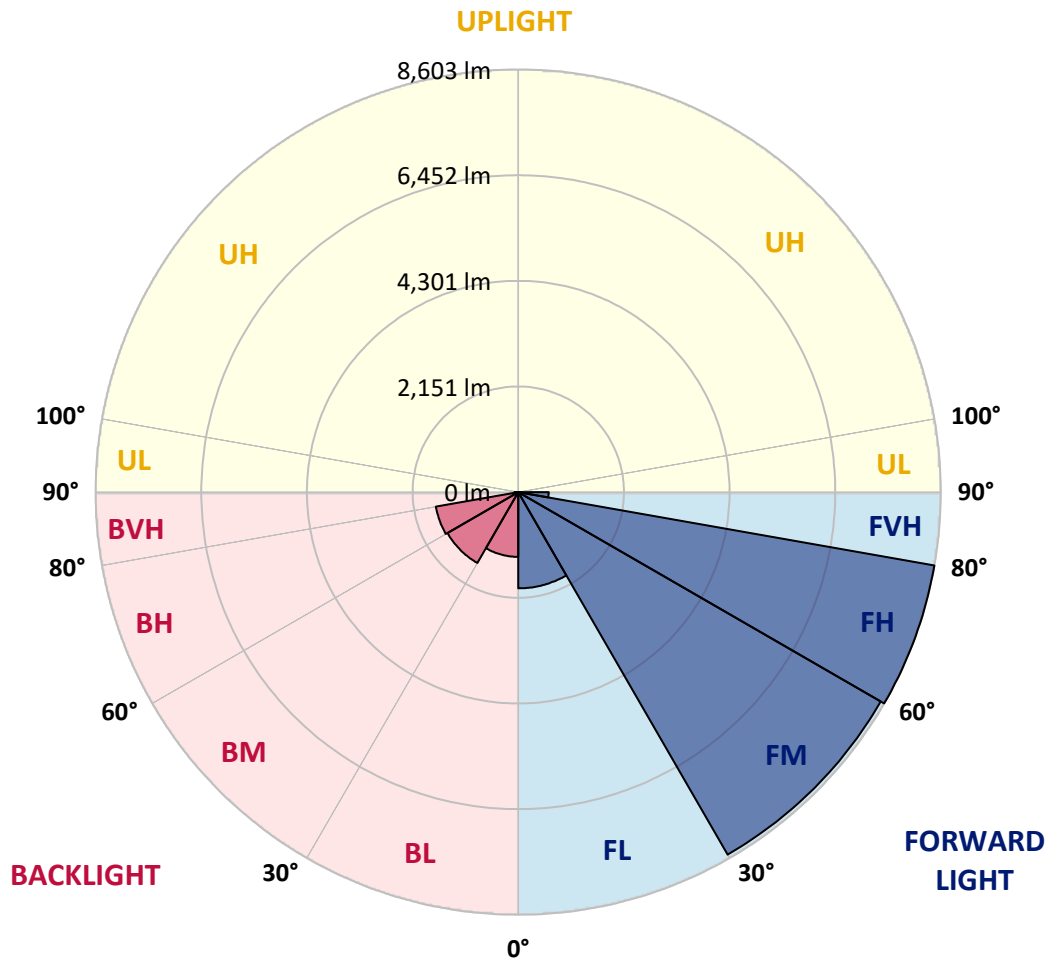


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1958.3	8.0			
FM (30°-60°)	8520.7	34.8			
FH (60°-80°)	8602.8	35.2			G4/12000
FVH (80°-90°)	618.6	2.5			G4/750
BL (0°-30°)	1317.6	5.4	B3/2500		
BM (30°-60°)	1664.5	6.8	B2/2500		
BH (60°-80°)	1702.1	7.0	B3/2500		G3/2500
BVH (80°-90°)	80.7	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°	5663.6	5663.6	5663.6	5663.6	5663.6	5663.6	5663.6	5663.6	5663.6	5663.6	5663.6
2.5°	5273.6	5333.2	5354.8	5387.3	5471.3	5533.6	5571.5	5614.9	5666.3	5709.7	5736.7
5°	4905.2	4937.7	4989.2	5024.4	5130.0	5298.0	5411.7	5595.9	5590.5	5658.2	5761.1
7.5°	4547.7	4580.2	4604.6	4675.0	4826.7	4978.3	5186.9	5484.9	5463.2	5620.3	5780.1
10°	4325.6	4301.2	4309.3	4428.5	4547.7	4718.3	4981.1	5284.4	5363.0	5606.7	5834.3
12.5°	4117.0	4089.9	4154.9	4230.8	4377.0	4531.4	4845.6	5119.2	5238.4	5558.0	5858.6
15°	3987.0	3968.1	4049.3	4081.8	4255.2	4439.3	4661.4	4994.6	5124.6	5498.4	5820.7
17.5°	3913.9	3930.1	3959.9	4030.4	4141.4	4298.5	4542.3	4910.6	4967.5	5425.3	5812.6
20°	3927.4	3946.4	3949.1	3978.9	4054.7	4176.6	4425.8	4821.3	4859.2	5411.7	5834.3
22.5°	4035.8	4008.7	4019.5	4000.6	4022.2	4117.0	4336.4	4702.1	4848.3	5298.0	5788.2
25°	4198.3	4160.4	4154.9	4089.9	4049.3	4076.4	4320.2	4672.3	4767.1	5262.7	5785.5
27.5°	4485.4	4428.5	4428.5	4331.0	4165.8	4122.4	4274.1	4623.5	4707.5	5230.2	5723.2
30°	4761.7	4761.7	4764.4	4626.2	4442.1	4228.1	4293.1	4604.6	4658.7	5132.7	5639.2
32.5°	5097.5	5089.4	5075.9	5008.1	4723.7	4404.1	4385.2	4580.2	4607.3	5100.2	5614.9
35°	5425.3	5403.6	5509.2	5449.6	5159.8	4748.1	4480.0	4591.0	4650.6	5051.5	5539.0
37.5°	5671.7	5685.3	5904.7	5942.6	5693.4	5138.2	4748.1	4699.4	4756.2	5121.9	5539.0
40°	5991.4	6045.5	6251.4	6378.7	6227.0	5652.8	5173.4	4880.8	4921.5	5279.0	5658.2
42.5°	6411.2	6457.2	6720.0	6885.2	6841.8	6308.3	5593.2	5260.0	5227.5	5541.7	5837.0
45°	6966.4	6974.6	7240.0	7467.5	7556.9	6993.5	6259.5	5739.5	5712.4	5994.1	6164.7
47.5°	7627.3	7619.2	7784.4	8028.2	8269.3	7811.5	7026.0	6468.1	6370.6	6641.4	6709.1
50°	8266.6	8231.3	8269.3	8580.7	9043.9	8835.4	7957.8	7359.2	7261.7	7410.6	7527.1
52.5°	8618.7	8662.0	8559.1	8970.8	9867.3	10046.1	9192.9	8423.6	8339.7	8412.8	8616.0
55°	8372.2	8461.6	8393.9	8783.9	10227.6	11522.3	10790.9	9656.0	9547.7	9520.6	9853.8
57.5°	7324.0	7486.5	7500.0	8117.6	10103.0	12665.3	13039.1	11110.6	10948.0	10671.8	11015.8
60°	5623.0	5785.5	5910.1	6641.4	9035.8	13347.8	15644.7	13179.9	12643.6	11928.5	12134.4
62.5°	3941.0	4052.0	4176.6	4626.2	6966.4	12947.0	17898.2	16094.3	15105.7	13253.0	13510.3
65°	2871.1	2957.8	3085.1	3350.5	4279.5	10712.4	18943.7	19555.9	18618.7	14937.8	14905.3
67.5°	2161.4	2215.6	2383.5	2808.8	2965.9	6617.0	17860.3	23212.4	22454.0	16809.4	16026.6
70°	1636.0	1682.0	1839.1	2421.5	2770.9	3548.2	14090.0	24027.7	24244.4	18908.5	16779.6
72.5°	1126.8	1178.2	1354.3	2017.9	2638.1	2814.2	8843.5	21828.4	22649.1	19772.6	15972.4
75°	690.7	725.9	828.8	1530.3	2619.2	2751.9	4867.3	17887.4	18756.8	18269.3	13973.5
77.5°	487.5	484.8	503.8	896.5	2269.8	2768.2	3001.1	13106.8	13951.8	13464.3	9482.7
80°	354.8	357.5	376.5	536.3	1541.2	2814.2	2364.6	8778.5	9030.4	7020.6	3740.5
82.5°	214.0	224.8	270.9	362.9	926.3	2540.6	2185.8	4878.1	4563.9	2253.5	1029.3
85°	113.8	113.8	159.8	230.2	493.0	1896.0	2104.6	2321.2	1944.8	698.8	381.9
87.5°	27.1	27.1	46.0	92.1	197.7	907.4	1435.5	923.6	739.4	235.6	157.1
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°	5663.6	5663.6	5663.6	5663.6	5663.6	5663.6	5663.6	5663.6	5663.6	5663.6	5663.6
2.5°	5725.9	5693.4	5734.0	5652.8	5587.8	5590.5	5490.3	5484.9	5471.3	5400.9	5425.3
5°	5790.9	5763.8	5717.8	5628.4	5484.9	5341.3	5254.6	5143.6	5097.5	5073.1	5084.0
7.5°	5853.2	5804.5	5671.7	5547.1	5325.0	5054.2	4897.1	4748.1	4558.5	4536.9	4498.9
10°	5869.5	5766.5	5595.9	5330.5	5035.2	4734.6	4377.0	4100.8	3954.5	3840.8	3797.4
12.5°	5845.1	5801.8	5474.0	5132.7	4685.8	4214.5	3797.4	3407.4	3136.5	2995.7	2957.8
15°	5842.4	5766.5	5338.6	4832.1	4260.6	3645.7	3052.6	2584.0	2299.6	2183.1	2183.1
17.5°	5845.1	5663.6	5178.8	4528.7	3759.5	2928.0	2275.2	1890.6	1733.5	1717.2	1730.8
20°	5790.9	5587.8	5010.9	4171.2	3131.1	2199.4	1652.2	1495.1	1495.1	1516.8	1524.9
22.5°	5742.2	5474.0	4745.4	3729.7	2491.9	1592.6	1343.5	1297.4	1348.9	1386.8	1403.0
25°	5674.5	5379.2	4474.6	3272.0	1896.0	1283.9	1167.4	1178.2	1227.0	1294.7	1289.3
27.5°	5576.9	5214.0	4152.2	2741.1	1411.2	1107.8	1078.0	1083.4	1134.9	1164.7	1159.3
30°	5465.9	5046.1	3854.3	2212.9	1118.6	1015.7	1013.0	1026.5	1034.7	1050.9	1048.2
32.5°	5325.0	4824.0	3537.4	1719.9	1007.6	964.3	953.4	945.3	953.4	950.7	942.6
35°	5224.8	4704.8	3215.1	1310.9	945.3	918.2	910.1	896.5	885.7	869.5	866.7
37.5°	5197.7	4585.6	2876.5	1069.9	896.5	883.0	855.9	831.5	818.0	809.9	804.4
40°	5181.5	4507.1	2546.1	939.9	855.9	842.4	809.9	777.4	763.8	755.7	758.4
42.5°	5238.4	4463.7	2210.2	874.9	820.7	796.3	761.1	723.2	720.5	715.1	723.2
45°	5438.8	4517.9	1898.7	828.8	785.5	744.9	698.8	679.9	677.1	671.7	677.1
47.5°	5893.8	4653.3	1633.3	799.0	747.6	712.4	663.6	636.5	633.8	631.1	631.1
50°	6522.2	5070.4	1411.2	763.8	723.2	674.4	628.4	598.6	593.2	582.3	582.3
52.5°	7508.2	5772.0	1278.4	744.9	679.9	639.2	590.5	558.0	544.4	533.6	533.6
55°	8618.7	6641.4	1254.1	712.4	633.8	595.9	552.5	520.0	506.5	493.0	487.5
57.5°	9883.6	7792.6	1427.4	690.7	601.3	552.5	503.8	474.0	463.2	449.6	444.2
60°	11061.8	8941.0	1966.4	658.2	571.5	511.9	463.2	433.4	419.8	406.3	406.3
62.5°	12424.2	10363.0	2879.2	658.2	544.4	468.6	419.8	398.2	390.0	376.5	373.8
65°	14035.8	11833.7	3545.5	698.8	536.3	430.7	379.2	357.5	349.4	341.3	338.6
67.5°	15262.8	12678.8	3049.8	807.2	571.5	398.2	338.6	325.0	319.6	311.5	306.1
70°	15392.8	12164.2	1839.1	872.2	606.7	365.7	303.4	289.8	289.8	281.7	276.3
72.5°	14225.4	10793.6	1237.8	777.4	549.8	327.7	268.1	257.3	251.9	246.5	243.8
75°	11904.2	9155.0	977.8	620.3	422.5	270.9	232.9	222.1	214.0	211.3	205.9
77.5°	7995.7	5950.7	723.2	484.8	311.5	219.4	195.0	184.2	176.1	173.3	165.2
80°	3071.5	2267.1	465.9	352.1	219.4	173.3	154.4	143.6	138.1	130.0	124.6
82.5°	904.7	734.0	260.0	216.7	140.8	119.2	111.1	102.9	94.8	86.7	84.0
85°	373.8	335.9	159.8	113.8	86.7	70.4	65.0	56.9	48.8	43.3	37.9
87.5°	173.3	143.6	73.1	43.3	29.8	16.3	8.1	2.7	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)