

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: P480249

Luminaire Tested: **IFLD-L-SA7B-827-U-SL2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480249
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7B-827-U-SL2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens
Light Source: (112) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

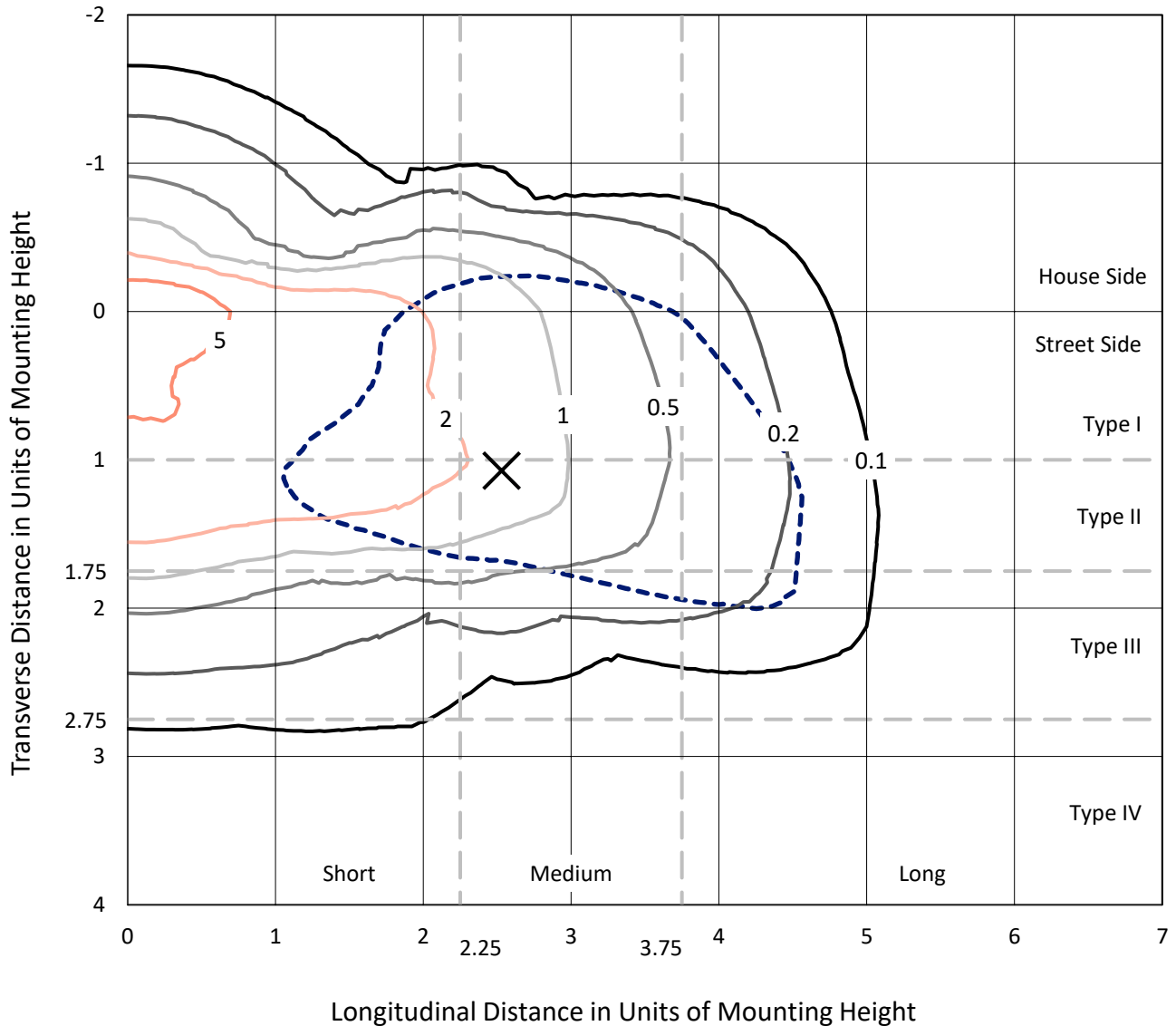
Lumens per Lamp: N/A
Luminaire Lumens: 26101.4 lumens
Efficiency: N/A
Efficacy: 92.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

Input Watts (W): 281
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

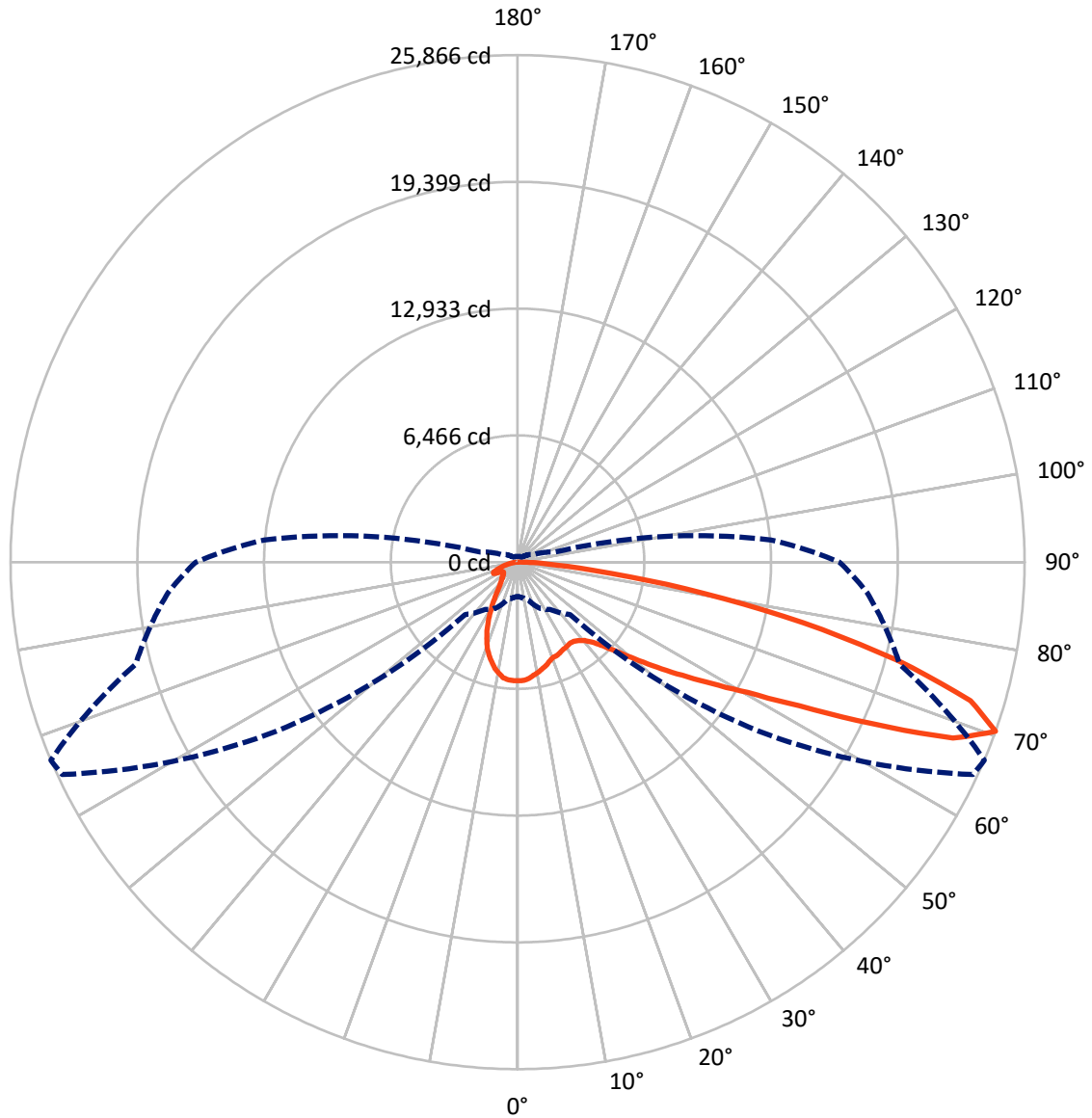
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.7 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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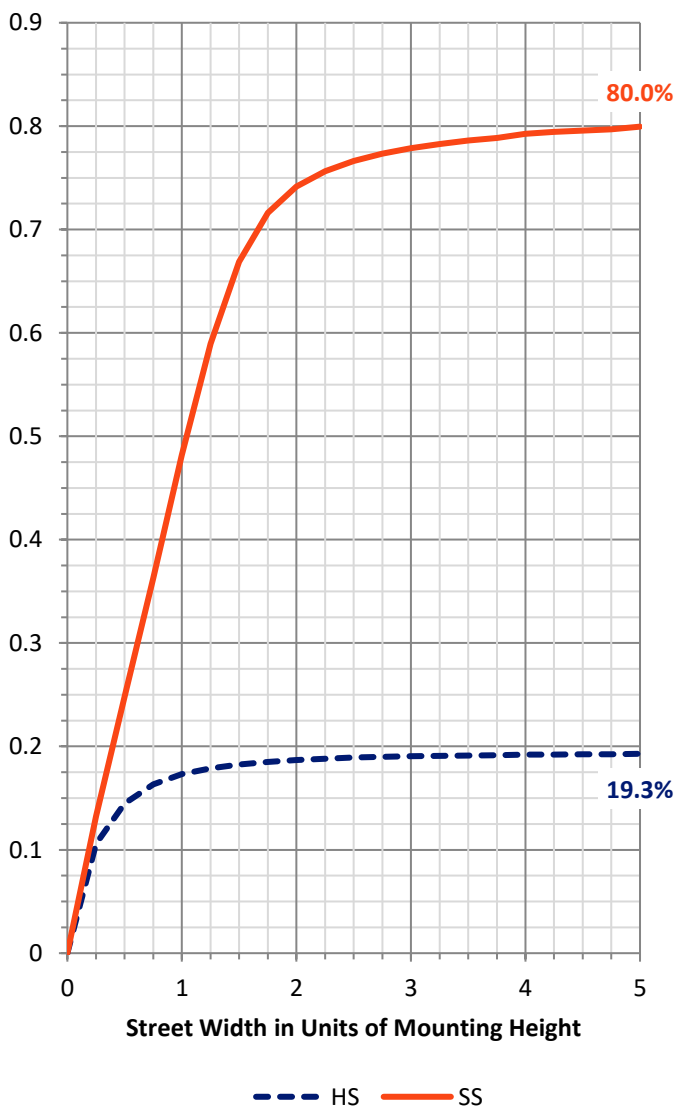
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5083.5	0.0	5083.5
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	21017.9	0.0	21017.9
	% Fixture	80.5	0.0	80.5
Total	Lumens	26101.4	0.0	26101.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	527.2	2.0
10°-20°	1262.7	4.8
20°-30°	1705.1	6.5
30°-40°	2281.6	8.7
40°-50°	3355.0	12.9
50°-60°	5229.7	20.0
60°-70°	6442.1	24.7
70°-80°	4551.9	17.4
80°-90°	746.1	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°	26101.4	100.0
0°-180°	26101.4	100.0

Coefficient of Utilization



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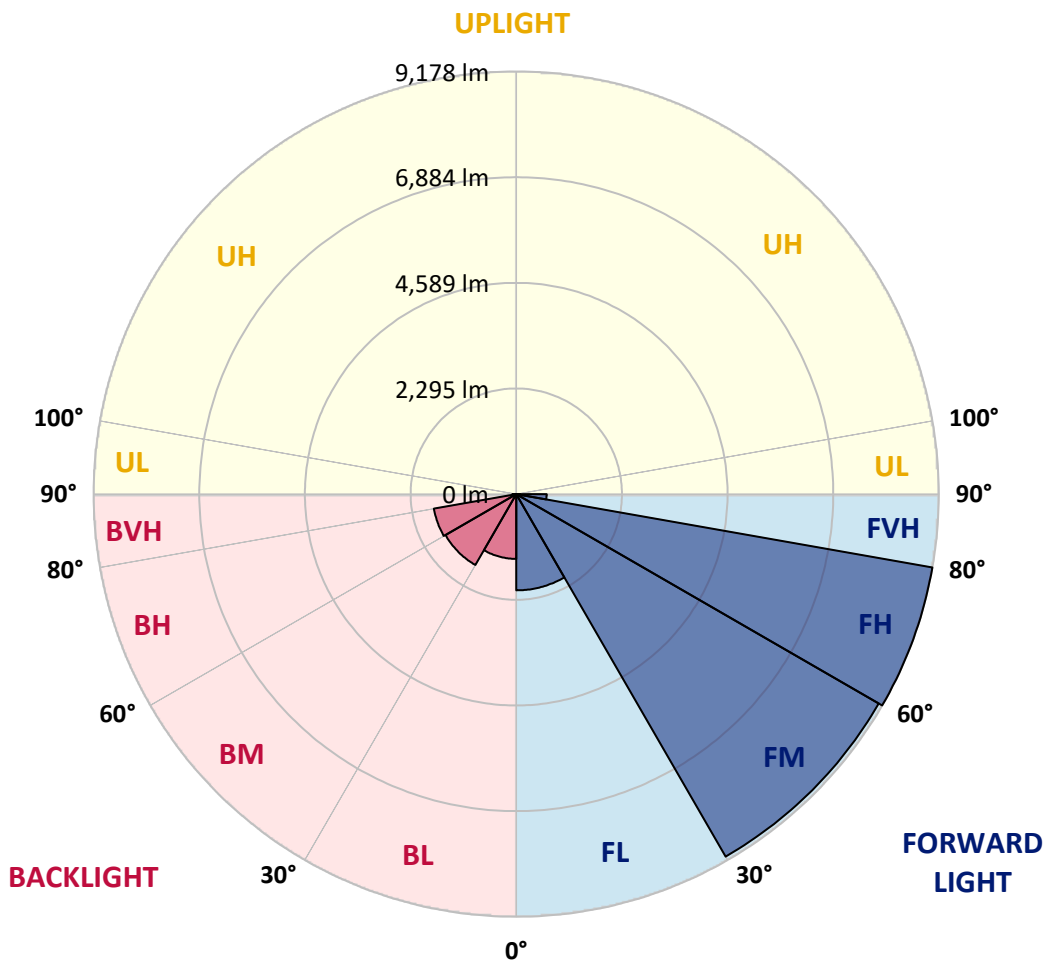
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2089.2	8.0			
FM (30°-60°)	9090.6	34.8			
FH (60°-80°)	9178.1	35.2			G4/12000
FVH (80°-90°)	660.0	2.5			G4/750
BL (0°-30°)	1405.8	5.4	B3/2500		
BM (30°-60°)	1775.8	6.8	B2/2500		
BH (60°-80°)	1815.9	7.0	B3/2500		G3/2500
BVH (80°-90°)	86.1	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°	6042.4	6042.4	6042.4	6042.4	6042.4	6042.4	6042.4	6042.4	6042.4	6042.4	6042.4
2.5°	5626.3	5689.9	5713.0	5747.6	5837.2	5903.7	5944.1	5990.4	6045.3	6091.5	6120.4
5°	5233.3	5268.0	5322.9	5360.4	5473.1	5652.3	5773.7	5970.2	5964.4	6036.6	6146.4
7.5°	4851.8	4886.5	4912.5	4987.6	5149.5	5311.3	5533.8	5851.7	5828.6	5996.2	6166.7
10°	4614.9	4588.9	4597.5	4724.7	4851.8	5033.9	5314.2	5637.8	5721.6	5981.7	6224.4
12.5°	4392.4	4363.5	4432.8	4513.7	4669.8	4834.5	5169.7	5461.6	5588.7	5929.7	6250.5
15°	4253.7	4233.4	4320.1	4354.8	4539.7	4736.2	4973.2	5328.6	5467.3	5866.1	6210.0
17.5°	4175.6	4193.0	4224.8	4299.9	4418.4	4586.0	4846.1	5239.1	5299.7	5788.1	6201.3
20°	4190.1	4210.3	4213.2	4245.0	4325.9	4455.9	4721.8	5143.7	5184.2	5773.7	6224.4
22.5°	4305.7	4276.8	4288.3	4268.1	4291.2	4392.4	4626.4	5016.5	5172.6	5652.3	6175.3
25°	4479.1	4438.6	4432.8	4363.5	4320.1	4349.0	4609.1	4984.8	5085.9	5614.7	6172.4
27.5°	4785.4	4724.7	4724.7	4620.7	4444.4	4398.1	4560.0	4932.7	5022.3	5580.0	6106.0
30°	5080.1	5080.1	5083.0	4935.6	4739.1	4510.8	4580.2	4912.5	4970.3	5476.0	6016.4
32.5°	5438.4	5429.8	5415.3	5343.1	5039.7	4698.7	4678.4	4886.5	4915.4	5441.3	5990.4
35°	5788.1	5765.0	5877.7	5814.1	5504.9	5065.7	4779.6	4898.1	4961.6	5389.3	5909.5
37.5°	6051.1	6065.5	6299.6	6340.0	6074.2	5481.8	5065.7	5013.7	5074.3	5464.5	5909.5
40°	6392.1	6449.8	6669.5	6805.3	6643.5	6030.8	5519.4	5207.3	5250.6	5632.1	6036.6
42.5°	6840.0	6889.1	7169.4	7345.7	7299.4	6730.1	5967.3	5611.8	5577.2	5912.4	6227.3
45°	7432.3	7441.0	7724.2	7966.9	8062.3	7461.2	6678.1	6123.3	6094.4	6394.9	6577.0
47.5°	8137.4	8128.8	8305.0	8565.1	8822.3	8333.9	7495.9	6900.6	6796.6	7085.6	7157.8
50°	8819.4	8781.8	8822.3	9154.6	9648.8	9426.3	8490.0	7851.4	7747.3	7906.3	8030.5
52.5°	9195.1	9241.3	9131.5	9570.7	10527.2	10718.0	9807.7	8987.0	8897.4	8975.5	9192.2
55°	8932.1	9027.5	8955.2	9371.3	10911.6	12292.9	11512.6	10301.8	10186.2	10157.4	10512.8
57.5°	7813.8	7987.2	8001.6	8660.5	10778.6	13512.3	13911.1	11853.6	11680.2	11385.5	11752.5
60°	5999.1	6172.4	6305.4	7085.6	9640.1	14240.5	16691.0	14061.4	13489.2	12726.3	12945.9
62.5°	4204.5	4323.0	4455.9	4935.6	7432.3	13812.8	19095.2	17170.7	16115.9	14139.4	14413.9
65°	3063.1	3155.6	3291.4	3574.6	4565.8	11428.8	20210.7	20863.7	19863.9	15936.8	15902.1
67.5°	2306.0	2363.8	2542.9	2996.6	3164.2	7059.6	19054.8	24764.9	23955.7	17933.6	17098.4
70°	1745.4	1794.5	1962.1	2583.4	2956.2	3785.5	15032.3	25634.7	25865.8	20173.1	17901.8
72.5°	1202.1	1257.0	1444.9	2152.8	2814.6	3002.4	9434.9	23288.2	24163.8	21094.9	17040.7
75°	736.9	774.4	884.3	1632.7	2794.4	2936.0	5192.8	19083.7	20011.3	19491.1	14908.0
77.5°	520.1	517.3	537.5	956.5	2421.6	2953.3	3201.8	13983.3	14884.9	14364.8	10116.9
80°	378.6	381.4	401.7	572.2	1644.2	3002.4	2522.7	9365.6	9634.3	7490.1	3990.7
82.5°	228.3	239.8	289.0	387.2	988.3	2710.6	2332.0	5204.4	4869.2	2404.2	1098.1
85°	121.4	121.4	170.5	245.6	525.9	2022.8	2245.3	2476.5	2074.8	745.5	407.4
87.5°	28.9	28.9	49.1	98.3	210.9	968.1	1531.5	985.4	788.9	251.4	167.6
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°	6042.4	6042.4	6042.4	6042.4	6042.4	6042.4	6042.4	6042.4	6042.4	6042.4	6042.4
2.5°	6108.9	6074.2	6117.5	6030.8	5961.5	5964.4	5857.5	5851.7	5837.2	5762.1	5788.1
5°	6178.2	6149.3	6100.2	6004.8	5851.7	5698.5	5606.0	5487.6	5438.4	5412.4	5424.0
7.5°	6244.7	6192.7	6051.1	5918.1	5681.2	5392.2	5224.6	5065.7	4863.4	4840.3	4799.8
10°	6262.0	6152.2	5970.2	5687.0	5372.0	5051.2	4669.8	4375.0	4219.0	4097.6	4051.4
12.5°	6236.0	6189.8	5840.1	5476.0	4999.2	4496.4	4051.4	3635.3	3346.3	3196.0	3155.6
15°	6233.1	6152.2	5695.6	5155.3	4545.5	3889.6	3256.7	2756.8	2453.4	2329.1	2329.1
17.5°	6236.0	6042.4	5525.1	4831.6	4010.9	3123.8	2427.4	2017.0	1849.4	1832.1	1846.5
20°	6178.2	5961.5	5346.0	4450.2	3340.5	2346.4	1762.7	1595.1	1595.1	1618.2	1626.9
22.5°	6126.2	5840.1	5062.8	3979.1	2658.5	1699.2	1433.3	1384.2	1439.1	1479.5	1496.9
25°	6054.0	5739.0	4773.8	3490.8	2022.8	1369.7	1245.5	1257.0	1309.0	1381.3	1375.5
27.5°	5949.9	5562.7	4429.9	2924.4	1505.5	1181.9	1150.1	1155.9	1210.8	1242.6	1236.8
30°	5831.4	5383.5	4112.1	2360.9	1193.5	1083.6	1080.8	1095.2	1103.9	1121.2	1118.3
32.5°	5681.2	5146.6	3774.0	1835.0	1075.0	1028.7	1017.2	1008.5	1017.2	1014.3	1005.6
35°	5574.3	5019.4	3430.1	1398.6	1008.5	979.6	970.9	956.5	944.9	927.6	924.7
37.5°	5545.4	4892.3	3068.9	1141.4	956.5	942.0	913.2	887.1	872.7	864.0	858.2
40°	5528.0	4808.5	2716.3	1002.7	913.2	898.7	864.0	829.3	814.9	806.2	809.1
42.5°	5588.7	4762.3	2358.0	933.4	875.6	849.6	812.0	771.6	768.7	762.9	771.6
45°	5802.5	4820.0	2025.7	884.3	838.0	794.7	745.5	725.3	722.4	716.6	722.4
47.5°	6288.0	4964.5	1742.5	852.5	797.6	760.0	708.0	679.1	676.2	673.3	673.3
50°	6958.4	5409.5	1505.5	814.9	771.6	719.5	670.4	638.6	632.8	621.3	621.3
52.5°	8010.3	6158.0	1363.9	794.7	725.3	682.0	630.0	595.3	580.8	569.3	569.3
55°	9195.1	7085.6	1337.9	760.0	676.2	635.7	589.5	554.8	540.4	525.9	520.1
57.5°	10544.6	8313.7	1522.9	736.9	641.5	589.5	537.5	505.7	494.1	479.7	473.9
60°	11801.6	9539.0	2097.9	702.2	609.7	546.2	494.1	462.4	447.9	433.5	433.5
62.5°	13255.1	11056.1	3071.8	702.2	580.8	499.9	447.9	424.8	416.1	401.7	398.8
65°	14974.5	12625.2	3782.6	745.5	572.2	459.5	404.6	381.4	372.8	364.1	361.2
67.5°	16283.5	13526.8	3253.8	861.1	609.7	424.8	361.2	346.8	341.0	332.3	326.5
70°	16422.3	12977.7	1962.1	930.5	647.3	390.1	323.6	309.2	309.2	300.5	294.8
72.5°	15176.8	11515.5	1320.6	829.3	586.6	349.7	286.1	274.5	268.7	263.0	260.1
75°	12700.3	9767.2	1043.2	661.7	450.8	289.0	248.5	237.0	228.3	225.4	219.6
77.5°	8530.4	6348.7	771.6	517.3	332.3	234.1	208.1	196.5	187.8	184.9	176.3
80°	3276.9	2418.7	497.0	375.7	234.1	184.9	164.7	153.2	147.4	138.7	132.9
82.5°	965.2	783.1	277.4	231.2	150.3	127.1	118.5	109.8	101.1	92.5	89.6
85°	398.8	358.3	170.5	121.4	92.5	75.1	69.4	60.7	52.0	46.2	40.5
87.5°	184.9	153.2	78.0	46.2	31.8	17.3	8.7	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)