

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: P481067

Luminaire Tested: **IFLD-L-SA7A-830-U-SL4**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481067
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7A-830-U-SL4
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens
Light Source: (112) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

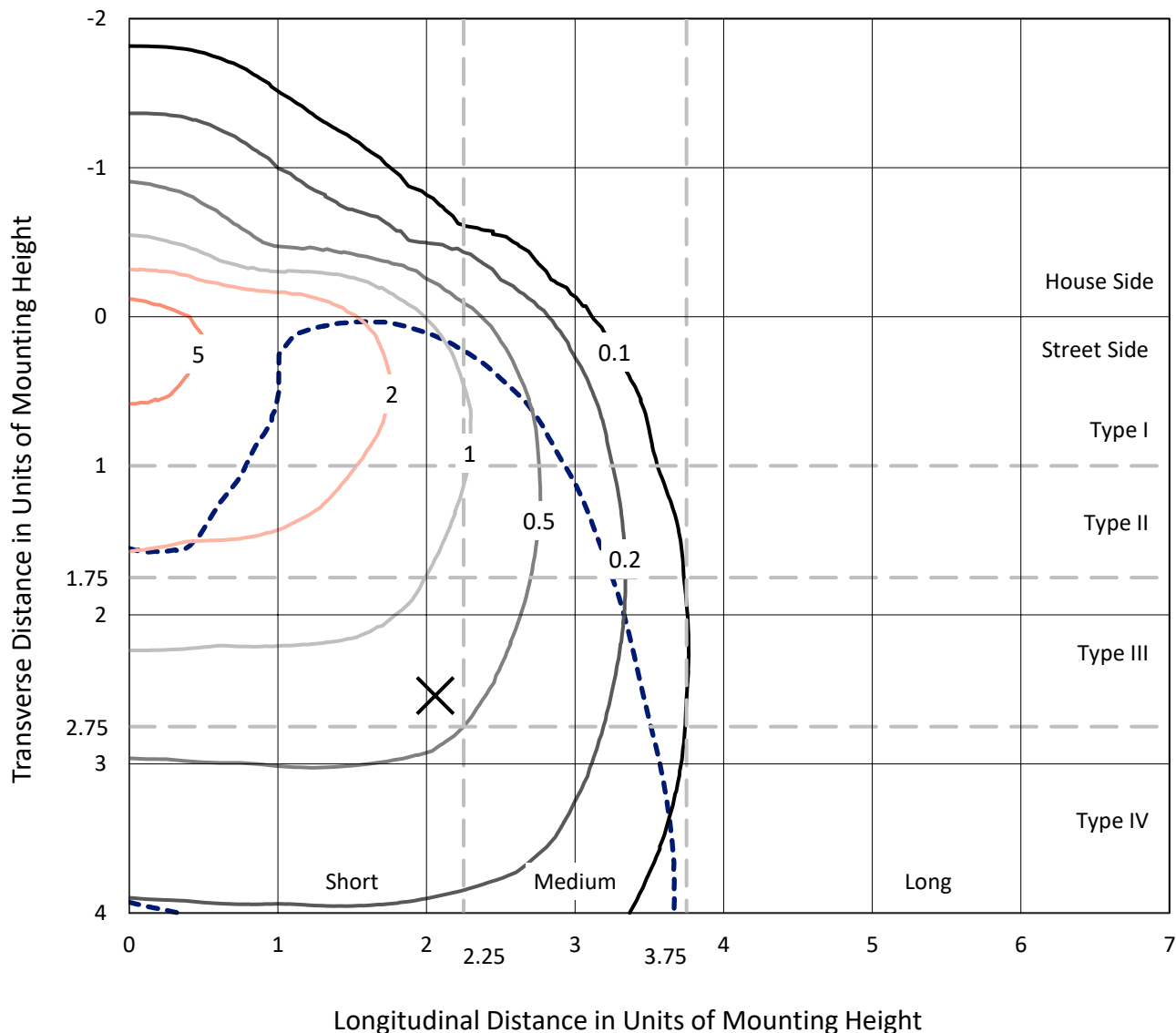
Lumens per Lamp: N/A
Luminaire Lumens: 24057.6 lumens
Efficiency: N/A
Efficacy: 110.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 217.6
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

REPORT NUMBER: P481067
 CATALOG NUMBER: IFLD-L-SA7A-830-U-SL4

Iso-Footcandle Lines of Horizontal Illumination

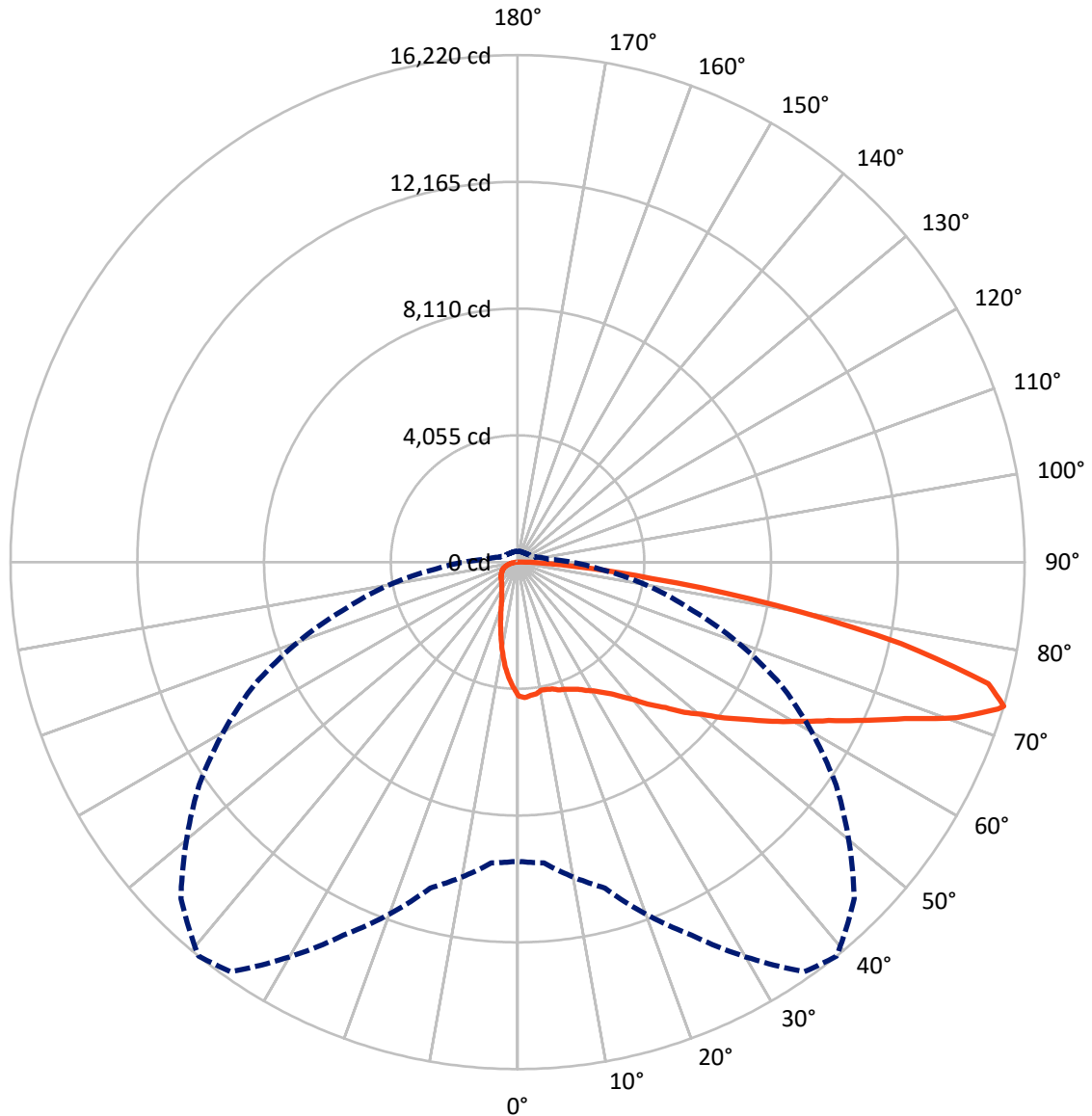
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 fc
 Type IV - Short - N/A

REPORT NUMBER: P481067
CATALOG NUMBER: IFLD-L-SA7A-830-U-SL4

Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

REPORT NUMBER: P481067
 CATALOG NUMBER: IFLD-L-SA7A-830-U-SL4

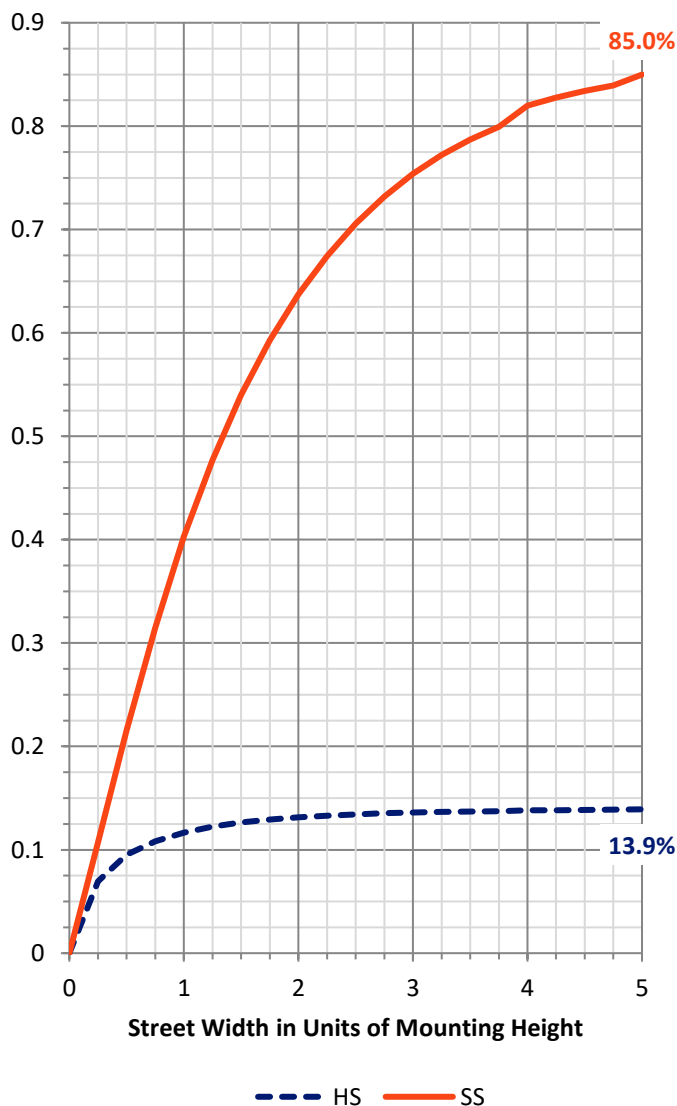
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3381.8	0.0	3381.8
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	20675.8	0.0	20675.8
	% Fixture	85.9	0.0	85.9
Total	Lumens	24057.6	0.0	24057.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	371.7	1.5
10°-20°	945.0	3.9
20°-30°	1444.1	6.0
30°-40°	2105.6	8.8
40°-50°	3181.7	13.2
50°-60°	4607.3	19.2
60°-70°	5853.8	24.3
70°-80°	4745.4	19.7
80°-90°	802.9	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°	24057.6	100.0
0°-180°	24057.6	100.0

Coefficient of Utilization



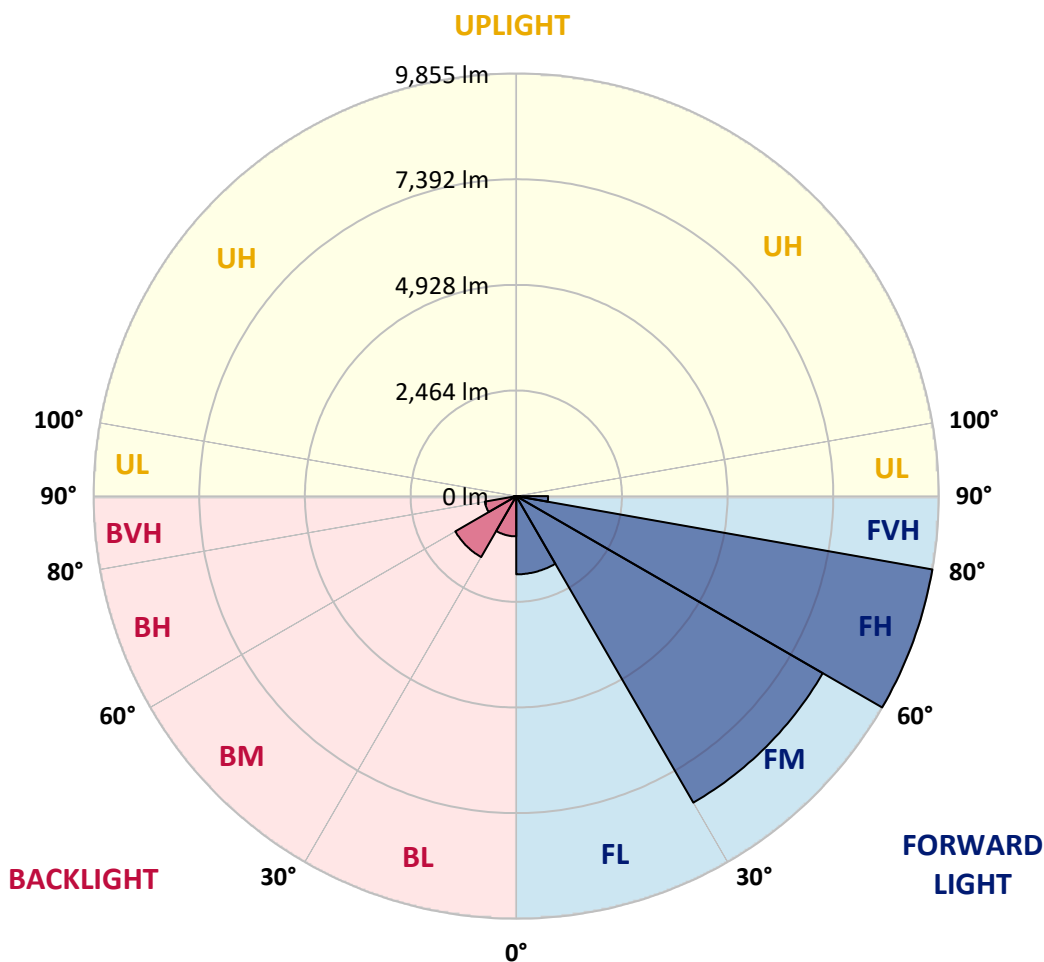
REPORT NUMBER: P481067
 CATALOG NUMBER: IFLD-L-SA7A-830-U-SL4

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1823.0	7.6			
FM (30°-60°)	8253.3	34.3			
FH (60°-80°)	9855.4	41.0			G4/12000
FVH (80°-90°)	744.0	3.1			G4/750
BL (0°-30°)	937.9	3.9	B2/1000		
BM (30°-60°)	1641.3	6.8	B2/2500		
BH (60°-80°)	743.8	3.1	B2/1000		G2/1000
BVH (80°-90°)	58.9	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type IV Short





REPORT NUMBER: P481067

CATALOG NUMBER: IFLD-L-SA7A-830-U-SL4

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	4282.4	4282.4	4282.4	4282.4	4282.4	4282.4	4282.4	4282.4	4282.4	4282.4	4282.4
2.5°	4384.7	4338.9	4347.0	4330.8	4347.0	4341.6	4333.5	4293.2	4333.5	4293.2	4282.4
5°	4325.5	4325.5	4352.4	4312.0	4317.4	4290.5	4317.4	4287.8	4260.9	4193.6	4174.7
7.5°	4306.6	4303.9	4306.6	4250.1	4277.0	4260.9	4233.9	4201.7	4147.8	4104.8	4042.8
10°	4177.4	4204.3	4174.7	4190.9	4212.4	4164.0	4161.3	4153.2	4129.0	4072.5	4034.8
12.5°	4107.4	4153.2	4169.4	4155.9	4174.7	4180.1	4164.0	4153.2	4123.6	4085.9	3978.2
15°	4137.1	4083.2	4129.0	4217.8	4199.0	4212.4	4215.1	4204.3	4190.9	4120.9	4050.9
17.5°	4145.1	4112.8	4209.7	4228.6	4252.8	4301.2	4268.9	4266.2	4215.1	4166.7	4064.4
20°	4164.0	4150.5	4228.6	4328.2	4330.8	4338.9	4355.1	4314.7	4287.8	4204.3	4048.2
22.5°	4233.9	4279.7	4352.4	4395.4	4419.7	4425.1	4425.1	4344.3	4314.7	4247.4	4123.6
25°	4443.9	4395.4	4497.7	4548.9	4513.9	4505.8	4487.0	4414.3	4382.0	4322.8	4158.6
27.5°	4597.3	4594.6	4653.8	4723.8	4629.6	4648.5	4581.2	4559.6	4487.0	4454.7	4220.5
30°	4807.3	4866.5	4863.8	4885.3	4761.5	4783.0	4696.9	4656.5	4616.2	4635.0	4403.5
32.5°	5076.4	5054.9	5089.9	5073.7	4949.9	4968.8	4866.5	4804.6	4818.0	4874.6	4653.8
35°	5248.7	5227.2	5240.6	5240.6	5202.9	5181.4	5138.3	5057.6	5122.2	5227.2	4933.8
37.5°	5434.4	5461.3	5539.4	5523.2	5474.8	5474.8	5469.4	5412.9	5496.3	5754.7	5380.6
40°	5598.6	5671.3	5719.7	5752.0	5808.6	5808.6	5854.3	5822.0	5972.7	6387.3	5927.0
42.5°	5770.9	5773.6	6037.3	6061.6	6188.1	6241.9	6276.9	6303.8	6586.4	7049.4	6511.1
45°	5991.6	6005.0	6236.5	6422.3	6618.7	6637.6	6769.5	6858.3	7205.5	7773.5	7146.3
47.5°	6282.3	6266.1	6513.8	6809.8	7054.8	7184.0	7342.8	7439.7	7867.7	8559.4	7840.7
50°	6664.5	6616.1	6758.7	7224.4	7512.4	7655.0	7937.6	8099.1	8599.8	9310.4	8317.2
52.5°	7130.2	7049.4	7162.5	7671.2	7994.2	8282.2	8551.3	8731.7	9253.9	9891.8	8669.8
55°	7622.7	7455.8	7488.1	8144.9	8610.6	8882.4	9251.2	9439.6	9972.5	10414.0	9022.4
57.5°	8109.9	8004.9	7940.3	8599.8	9345.4	9606.5	9945.6	10190.5	10642.7	10876.9	9321.1
60°	8519.0	8492.1	8387.2	9305.0	10123.3	10346.7	10702.0	10852.7	11194.5	11304.9	9326.5
62.5°	8855.5	8764.0	8930.9	9872.9	10914.6	11167.6	11557.9	11571.4	11813.6	11571.4	9052.0
65°	9119.3	9124.7	9391.1	10559.3	11829.8	12203.9	12518.8	12483.8	12327.7	11412.6	8403.3
67.5°	9358.8	9461.1	9851.4	11313.0	13006.0	13358.6	13708.5	13245.6	12467.7	10669.7	7135.5
70°	9547.2	9649.5	10473.2	12230.8	14392.2	14909.0	14987.1	13547.0	11824.4	9038.5	5383.3
72.5°	9525.7	9711.4	10825.8	12962.9	15622.3	16069.1	15439.2	12699.2	9851.4	6301.1	3141.1
73°	9571.5	9663.0	10796.2	13167.5	15996.4	16219.8	15229.3	12432.7	9291.5	5652.4	2656.6
75°	8688.6	8998.2	10260.5	12833.7	15595.4	15555.0	14023.4	10360.1	6605.3	2968.9	1286.6
77.5°	6427.6	6624.1	8085.7	10553.9	12801.4	12543.0	10578.1	6621.4	3135.8	1100.9	694.4
80°	3141.1	3294.6	4285.1	6093.9	8371.0	8392.5	6564.9	3445.3	1343.1	621.8	473.7
82.5°	1569.2	1660.7	2059.1	2678.2	4118.2	4314.7	3329.6	1959.5	831.7	352.6	269.2
85°	1025.5	1090.1	1267.8	1310.8	1746.9	1843.8	1550.4	1528.9	541.0	191.1	218.0
87.5°	681.0	691.8	777.9	662.1	699.8	672.9	748.3	963.6	158.8	80.7	59.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P481067

CATALOG NUMBER: IFLD-L-SA7A-830-U-SL4

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4282.4	4282.4	4282.4	4282.4	4282.4	4282.4	4282.4	4282.4	4282.4	4282.4	4282.4
2.5°	4268.9	4231.3	4190.9	4134.4	4094.0	4032.1	3975.6	3951.3	3945.9	3948.6	3921.7
5°	4158.6	4104.8	4024.0	3908.3	3841.0	3738.7	3652.6	3606.8	3558.3	3566.4	3544.9
7.5°	4005.2	3945.9	3822.1	3687.5	3520.7	3375.3	3294.6	3181.5	3116.9	3068.5	3095.4
10°	3956.7	3854.4	3668.7	3483.0	3224.6	3033.5	2847.8	2718.6	2629.7	2543.6	2581.3
12.5°	3932.5	3830.2	3571.8	3297.3	2963.5	2672.8	2411.7	2252.9	2126.4	2051.0	2080.6
15°	3911.0	3784.4	3480.3	3092.7	2718.6	2336.3	2043.0	1833.0	1711.9	1639.2	1647.3
17.5°	3940.6	3760.2	3345.7	2893.5	2449.4	2040.3	1714.6	1496.6	1372.7	1327.0	1316.2
20°	3911.0	3733.3	3213.8	2694.3	2180.2	1757.6	1445.4	1265.1	1178.9	1141.3	1133.2
22.5°	3921.7	3668.7	3076.5	2473.6	1929.9	1520.8	1265.1	1127.8	1060.5	1041.7	1047.0
25°	3972.9	3631.0	2939.3	2231.4	1682.3	1345.8	1149.3	1044.4	995.9	977.1	982.4
27.5°	4010.5	3663.3	2815.5	2002.6	1472.3	1189.7	1052.4	982.4	950.1	936.7	934.0
30°	4104.8	3682.2	2694.3	1798.0	1300.1	1087.4	985.1	928.6	907.1	899.0	896.3
32.5°	4244.7	3717.2	2554.4	1609.6	1173.6	990.5	931.3	882.9	877.5	869.4	872.1
35°	4473.5	3838.3	2398.3	1448.1	1052.4	925.9	874.8	842.5	842.5	842.5	850.6
37.5°	4801.9	4007.9	2258.3	1294.7	974.4	869.4	826.3	815.6	810.2	818.3	823.6
40°	5224.5	4212.4	2145.2	1173.6	907.1	831.7	794.0	788.7	786.0	783.3	788.7
42.5°	5687.4	4473.5	2048.3	1079.3	858.6	791.3	764.4	759.0	748.3	753.7	761.7
45°	6147.7	4796.5	1962.2	1004.0	826.3	769.8	732.1	729.4	724.1	721.4	734.8
47.5°	6659.1	5114.1	1935.3	958.2	802.1	737.5	710.6	707.9	691.8	689.1	699.8
50°	7057.5	5348.3	1964.9	936.7	767.1	713.3	694.4	681.0	667.5	654.1	654.1
52.5°	7332.0	5509.8	1986.4	920.5	748.3	681.0	656.8	651.4	637.9	624.5	619.1
55°	7579.7	5606.7	1991.8	923.2	729.4	643.3	627.2	624.5	616.4	594.9	589.5
57.5°	7663.1	5566.3	1884.1	899.0	718.7	619.1	597.5	602.9	592.2	573.3	570.6
60°	7655.0	5286.4	1639.2	866.7	694.4	592.2	565.2	581.4	581.4	559.9	557.2
62.5°	7189.4	4640.4	1340.4	804.8	667.5	565.2	535.6	559.9	567.9	554.5	551.8
65°	6223.1	3779.1	1119.7	742.9	627.2	535.6	506.0	532.9	546.4	541.0	538.3
67.5°	5149.1	2890.8	931.3	662.1	576.0	495.3	471.0	489.9	498.0	500.6	503.3
70°	3639.1	1924.5	777.9	573.3	506.0	452.2	425.3	428.0	425.3	433.4	433.4
72.5°	1978.4	1109.0	632.5	487.2	436.0	393.0	374.1	360.7	360.7	358.0	358.0
73°	1693.0	995.9	602.9	473.7	417.2	382.2	360.7	349.9	349.9	347.2	344.5
75°	950.1	729.4	516.8	406.4	360.7	333.8	317.6	301.5	298.8	298.8	298.8
77.5°	624.5	567.9	411.8	325.7	290.7	266.5	261.1	244.9	244.9	244.9	242.2
80°	468.3	446.8	317.6	247.6	223.4	204.6	199.2	188.4	185.7	175.0	177.6
82.5°	312.2	352.6	231.5	175.0	150.7	140.0	140.0	137.3	129.2	115.7	115.7
85°	247.6	288.0	166.9	107.7	88.8	75.4	78.1	75.4	72.7	59.2	56.5
87.5°	45.8	115.7	48.4	29.6	21.5	13.5	13.5	8.1	5.4	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)