

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: P484968

Luminaire Tested: **IFLD-L-SA7B-830-U-SL4-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484968
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7B-830-U-SL4-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens with House Side Shield
Light Source: (112) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

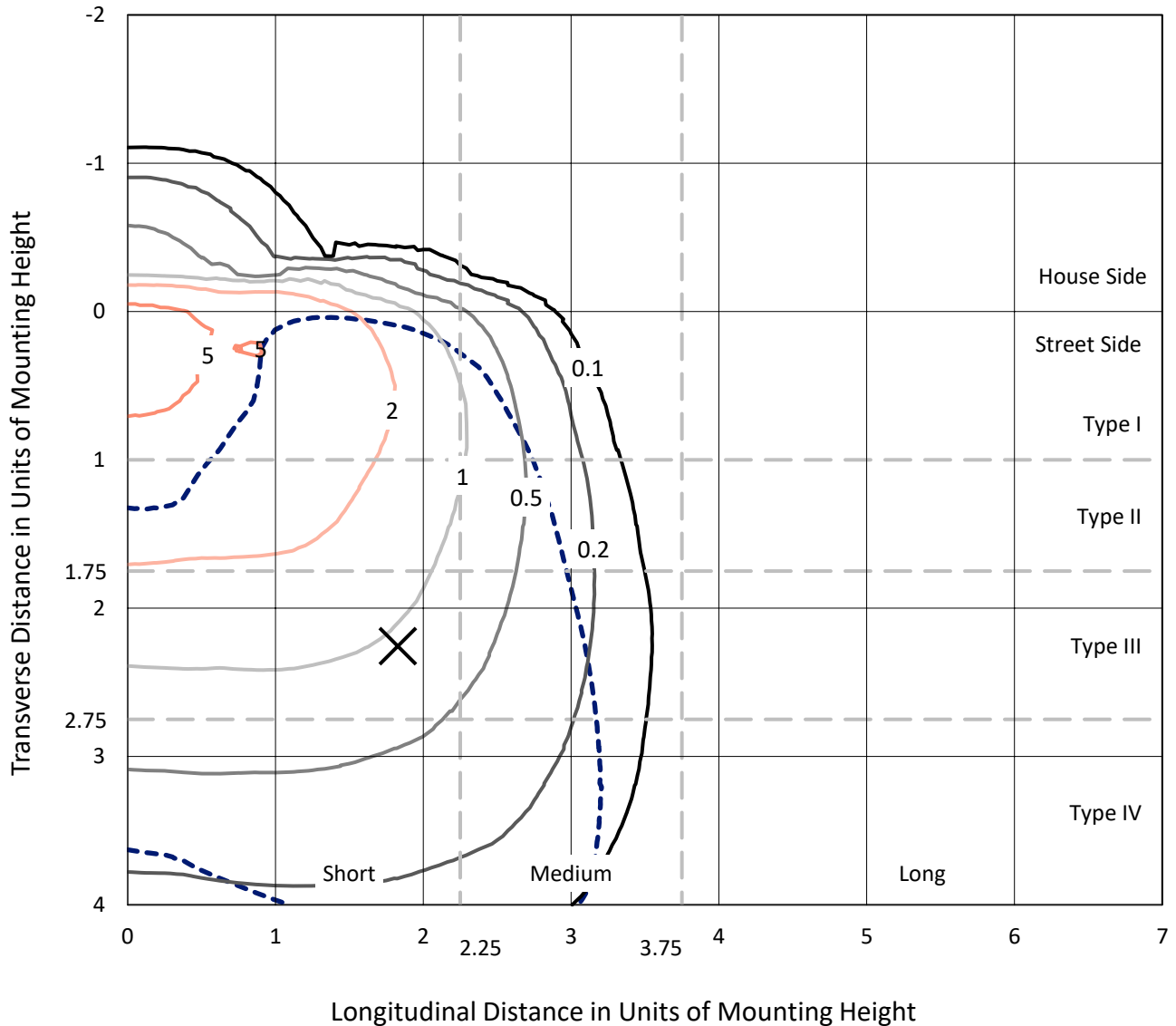
Lumens per Lamp: N/A
Luminaire Lumens: 23376.9 lumens
Efficiency: N/A
Efficacy: 83.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 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

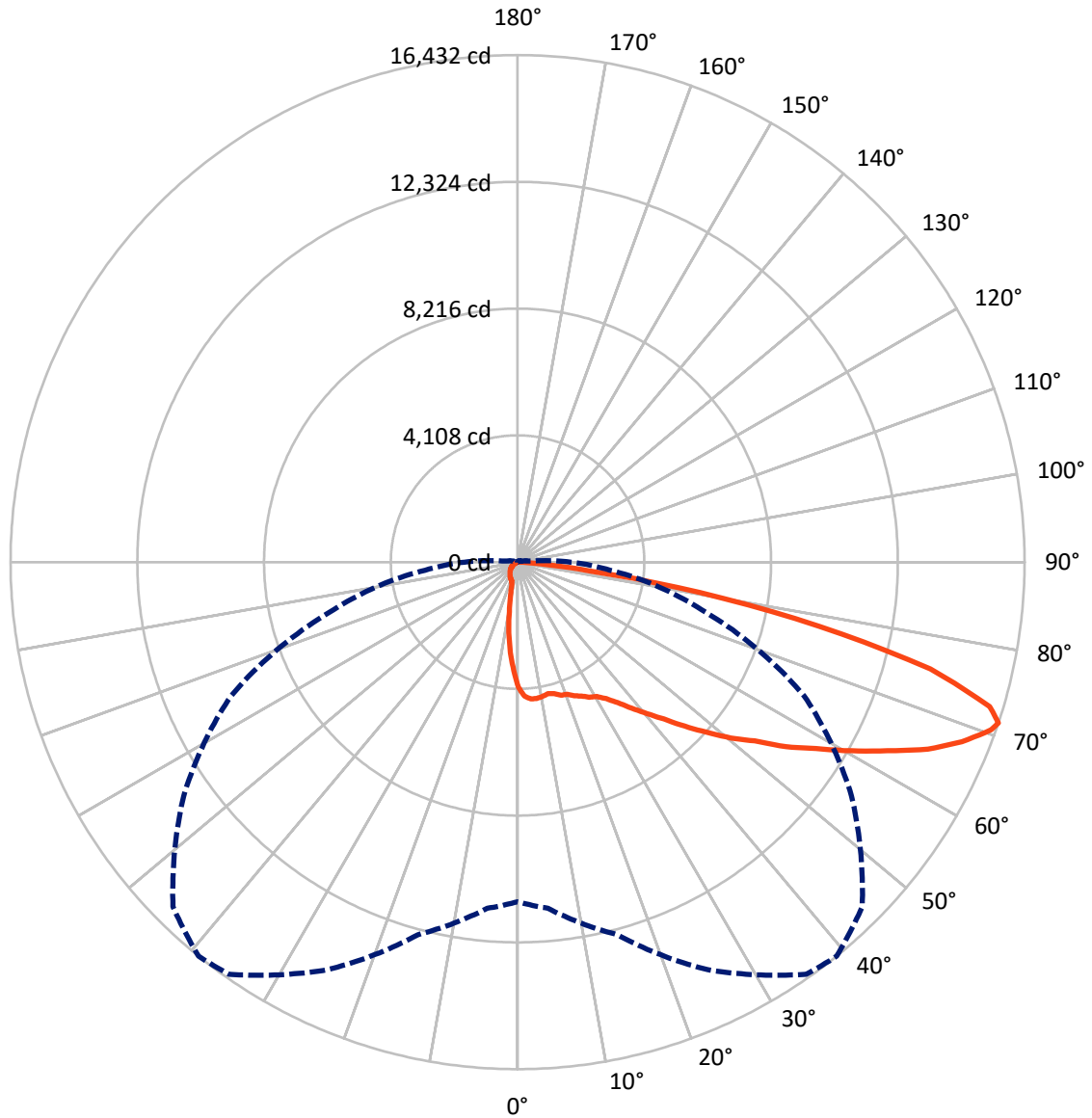
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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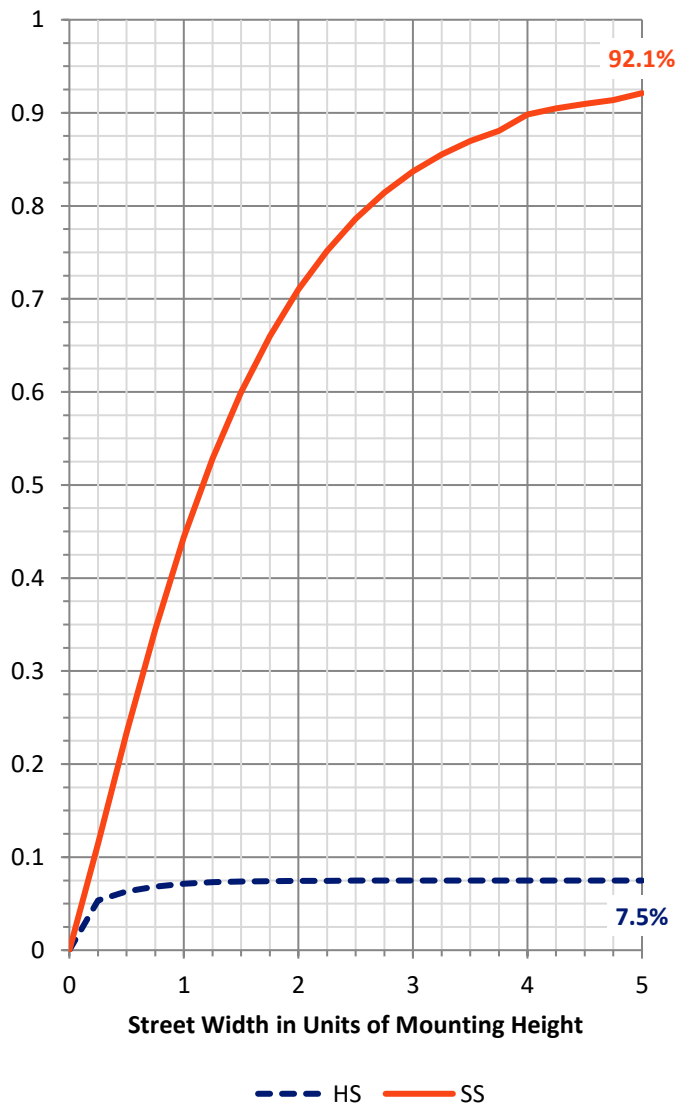
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1759.9	0.0	1759.9
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	21617.0	0.0	21617.0
	% Fixture	92.5	0.0	92.5
Total	Lumens	23376.9	0.0	23376.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	340.2	1.5
10°-20°	837.3	3.6
20°-30°	1344.2	5.8
30°-40°	2057.6	8.8
40°-50°	3302.8	14.1
50°-60°	4851.3	20.8
60°-70°	6110.1	26.1
70°-80°	4077.7	17.4
80°-90°	455.7	1.9
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°	23376.9	100.0
0°-180°	23376.9	100.0

Coefficient of Utilization



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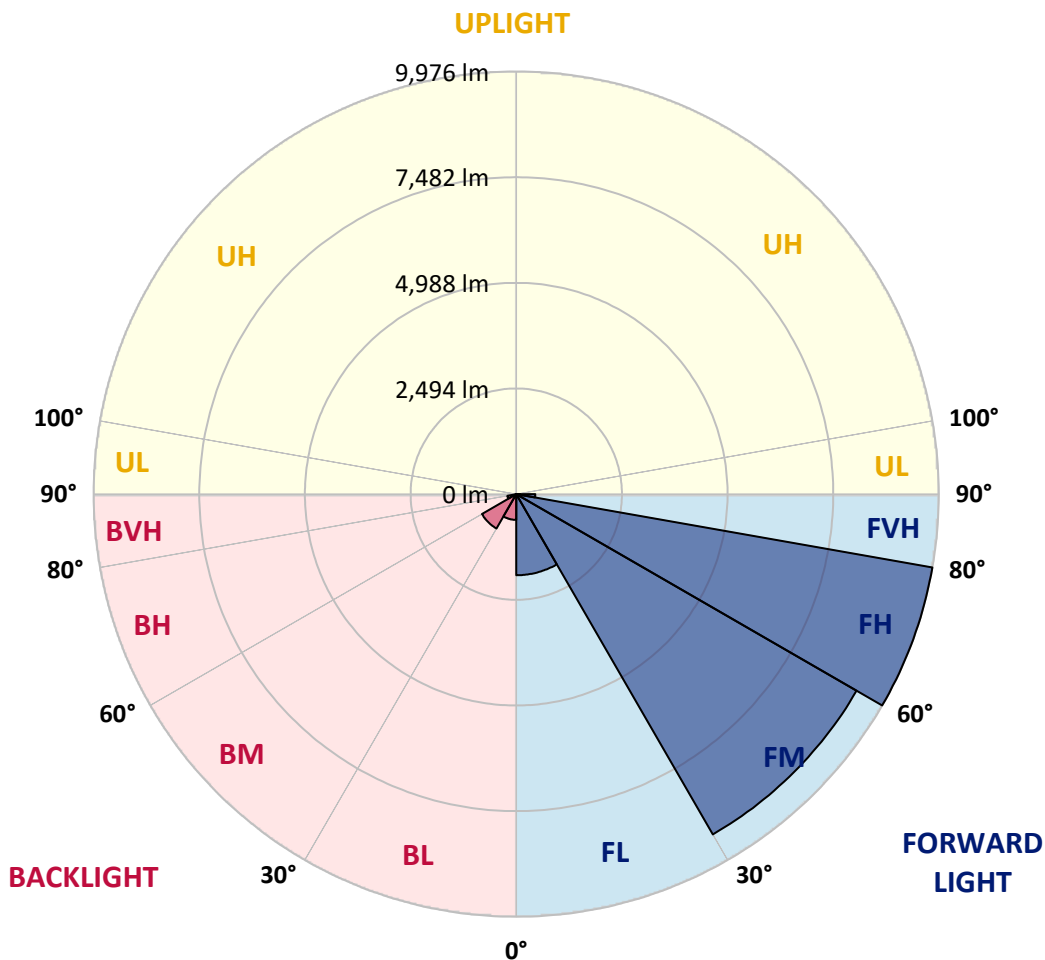
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1914.1	8.2			
FM (30°-60°)	9276.3	39.7			
FH (60°-80°)	9976.0	42.7			G4/12000
FVH (80°-90°)	450.7	1.9			G3/500
BL (0°-30°)	607.6	2.6	B2/1000		
BM (30°-60°)	935.5	4.0	B1/1000		
BH (60°-80°)	211.8	0.9	B1/500		G1/500
BVH (80°-90°)	5.0	0.0			G0/10
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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	4068.9	4068.9	4068.9	4068.9	4068.9	4068.9	4068.9	4068.9	4068.9	4068.9	4068.9
2.5°	4384.7	4427.7	4384.7	4366.3	4347.9	4351.0	4301.9	4311.1	4252.9	4176.2	4114.9
5°	4522.7	4581.0	4535.0	4513.5	4510.4	4452.2	4427.7	4369.4	4298.9	4179.3	4105.7
7.5°	4510.4	4498.2	4519.6	4501.2	4461.4	4461.4	4433.8	4351.0	4280.5	4145.6	4019.8
10°	4418.5	4455.3	4436.9	4415.4	4424.6	4427.7	4375.5	4317.3	4295.8	4160.9	3955.5
12.5°	4409.3	4347.9	4415.4	4418.5	4378.6	4375.5	4369.4	4354.1	4286.6	4164.0	3970.8
15°	4378.6	4354.1	4421.5	4424.6	4433.8	4424.6	4433.8	4421.5	4354.1	4283.5	4038.2
17.5°	4403.1	4375.5	4470.6	4516.6	4495.1	4538.0	4522.7	4467.5	4409.3	4326.5	4102.6
20°	4409.3	4449.1	4553.4	4571.8	4639.2	4568.7	4565.6	4507.4	4470.6	4381.7	4142.5
22.5°	4522.7	4541.1	4669.9	4709.8	4712.8	4703.6	4627.0	4559.5	4544.2	4433.8	4151.7
25°	4694.4	4758.8	4817.1	4841.6	4850.8	4807.9	4728.1	4642.3	4605.5	4535.0	4246.7
27.5°	4998.0	4958.1	5010.2	5047.0	4942.8	4958.1	4856.9	4783.3	4731.2	4669.9	4357.1
30°	5267.8	5231.0	5234.1	5227.9	5139.0	5056.2	5028.6	4899.9	4835.5	4860.0	4528.8
32.5°	5510.0	5430.3	5497.8	5467.1	5301.5	5277.0	5255.5	5093.0	5105.3	5218.7	4786.4
35°	5733.9	5706.3	5761.5	5706.3	5595.9	5589.8	5568.3	5427.3	5494.7	5657.2	5227.9
37.5°	5939.3	5948.5	6016.0	5988.4	5997.6	6003.7	5991.4	5841.2	6034.4	6399.3	5743.1
40°	6129.4	6117.2	6282.7	6368.6	6387.0	6454.4	6454.4	6417.6	6715.1	7126.0	6457.5
42.5°	6331.8	6362.5	6577.1	6721.2	6896.0	6954.2	7034.0	7052.4	7512.3	7981.4	7187.3
45°	6662.9	6610.8	6883.7	7224.1	7377.4	7582.8	7705.5	7809.7	8364.7	9008.6	7917.0
47.5°	7083.0	6978.8	7217.9	7711.6	8067.3	8235.9	8456.7	8594.7	9137.4	9802.8	8606.9
50°	7549.1	7441.8	7558.3	8239.0	8652.9	8959.6	9241.7	9416.4	10072.6	10692.0	9109.8
52.5°	8076.5	7978.4	7996.8	8787.9	9398.0	9621.9	9992.9	10253.5	10906.6	11228.6	9287.7
55°	8637.6	8613.1	8554.8	9324.4	10051.1	10554.0	10777.8	11090.6	11762.1	11519.9	9480.8
57.5°	9201.8	9125.1	9207.9	10035.8	11099.8	11400.3	11710.0	11897.0	12237.4	11774.4	9407.2
60°	9732.3	9738.4	9854.9	10808.5	11992.1	12418.3	12697.3	12583.9	12724.9	11884.8	9238.6
62.5°	10179.9	10167.7	10462.0	11676.3	13172.6	13460.8	13669.3	13163.4	12951.8	11992.1	8944.2
65°	10581.6	10719.6	11182.6	12709.6	14282.6	14613.7	14488.0	13712.2	13172.6	11676.3	8116.3
67.5°	10885.2	11090.6	11894.0	13681.6	15300.6	15533.6	15358.8	14129.3	12912.0	10437.5	6610.8
70°	11063.0	11271.5	12403.0	14491.1	16113.1	16281.8	15870.9	13807.3	11391.1	7558.3	4124.1
71°	11007.8	11262.3	12501.1	14576.9	16306.3	16432.0	15794.2	13212.4	10244.3	6328.7	3008.0
72.5°	10508.0	10747.2	12093.3	14515.6	16073.3	15996.6	15196.3	11783.6	8064.2	4035.2	1554.6
75°	7720.8	7978.4	10379.2	12556.3	14347.0	13819.6	12298.7	8269.7	4206.9	1235.7	453.8
77.5°	3845.1	3888.0	6442.2	9115.9	10523.3	9999.0	8242.1	4611.6	1573.0	364.9	226.9
80°	1772.3	1784.6	2416.2	4722.0	6362.5	5988.4	4617.8	2275.2	711.4	193.2	177.8
82.5°	1208.1	1226.5	1456.5	1956.3	2762.7	2330.3	1870.4	1456.5	407.8	116.5	174.8
85°	220.8	202.4	815.6	1036.4	1067.1	723.6	647.0	1260.2	153.3	67.5	153.3
87.5°	0.0	3.1	113.5	423.1	380.2	168.6	220.8	306.6	15.3	21.5	27.6
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°	4068.9	4068.9	4068.9	4068.9	4068.9	4068.9	4068.9	4068.9	4068.9	4068.9	4068.9
2.5°	4062.8	4029.0	3915.6	3789.9	3676.4	3587.5	3474.1	3421.9	3339.1	3293.1	3290.1
5°	4004.5	3912.5	3716.3	3504.7	3268.6	3072.4	2854.7	2732.0	2591.0	2548.0	2538.9
7.5°	3906.4	3774.5	3486.3	3188.9	2827.1	2480.6	2213.8	1928.7	1753.9	1680.3	1652.7
10°	3845.1	3685.6	3293.1	2848.5	2342.6	1855.1	1481.0	1177.4	1018.0	941.3	922.9
12.5°	3845.1	3673.4	3136.8	2523.5	1852.0	1269.4	916.8	742.0	689.9	671.5	671.5
15°	3835.9	3648.8	2986.5	2189.3	1370.6	852.4	683.8	647.0	640.8	637.8	634.7
17.5°	3881.9	3605.9	2833.2	1830.5	968.9	671.5	628.6	622.4	616.3	616.3	610.2
20°	3915.6	3581.4	2649.2	1450.3	723.6	622.4	604.1	594.9	591.8	588.7	594.9
22.5°	3888.0	3544.6	2422.3	1085.5	631.6	591.8	579.5	570.3	564.2	564.2	567.3
25°	3940.1	3510.8	2195.4	818.7	591.8	564.2	551.9	545.8	542.7	539.7	533.5
27.5°	4010.6	3526.2	1925.6	659.2	558.1	536.6	524.3	518.2	515.1	509.0	515.1
30°	4096.5	3523.1	1628.2	576.5	527.4	505.9	493.7	490.6	484.5	481.4	484.5
32.5°	4243.7	3602.8	1321.6	533.5	493.7	475.3	463.0	459.9	456.9	453.8	450.7
35°	4559.5	3701.0	1033.3	499.8	463.0	441.5	432.3	426.2	423.1	420.1	417.0
37.5°	4948.9	3918.7	788.0	469.1	432.3	410.9	401.7	398.6	386.3	383.3	380.2
40°	5436.5	4151.7	607.1	435.4	404.7	383.3	374.1	364.9	349.6	343.4	337.3
42.5°	6043.6	4378.6	499.8	404.7	374.1	358.8	343.4	328.1	315.8	303.6	297.4
45°	6650.7	4642.3	438.5	377.1	349.6	331.2	318.9	297.4	276.0	257.6	254.5
47.5°	7156.6	4737.3	401.7	346.5	325.0	309.7	291.3	263.7	233.0	214.6	211.6
50°	7533.8	4682.2	364.9	315.8	297.4	282.1	257.6	223.8	193.2	174.8	168.6
52.5°	7607.4	4439.9	331.2	291.3	269.8	251.4	223.8	187.0	153.3	134.9	131.8
55°	7555.2	4038.2	303.6	269.8	245.3	217.7	187.0	150.2	119.6	101.2	98.1
57.5°	7447.9	3563.0	272.9	242.2	214.6	187.0	153.3	122.6	88.9	70.5	70.5
60°	7083.0	2916.0	242.2	211.6	184.0	159.4	125.7	88.9	61.3	46.0	42.9
62.5°	6574.0	2241.4	211.6	180.9	159.4	131.8	98.1	64.4	36.8	24.5	24.5
65°	5645.0	1569.9	177.8	150.2	131.8	107.3	73.6	39.9	21.5	9.2	9.2
67.5°	4289.7	972.0	147.2	125.7	113.5	85.9	52.1	24.5	9.2	3.1	0.0
70°	2462.2	505.9	116.5	101.2	88.9	64.4	36.8	12.3	6.1	0.0	0.0
71°	1720.2	374.1	104.3	88.9	79.7	58.3	30.7	9.2	3.1	0.0	0.0
72.5°	861.6	248.4	88.9	73.6	64.4	46.0	24.5	9.2	3.1	0.0	0.0
75°	306.6	159.4	61.3	49.1	46.0	33.7	15.3	6.1	3.1	0.0	0.0
77.5°	211.6	128.8	42.9	30.7	30.7	21.5	9.2	3.1	3.1	0.0	0.0
80°	193.2	70.5	27.6	18.4	15.3	12.3	6.1	3.1	0.0	0.0	0.0
82.5°	193.2	52.1	15.3	12.3	9.2	6.1	3.1	0.0	0.0	0.0	0.0
85°	134.9	27.6	9.2	9.2	6.1	3.1	0.0	0.0	0.0	0.0	0.0
87.5°	21.5	9.2	6.1	3.1	3.1	0.0	0.0	0.0	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)