

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: P479475

Luminaire Tested: **IFLD-L-SA8C-827-U-5MQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479475
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8C-827-U-5MQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5MQ distribution lens
Light Source: (128) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

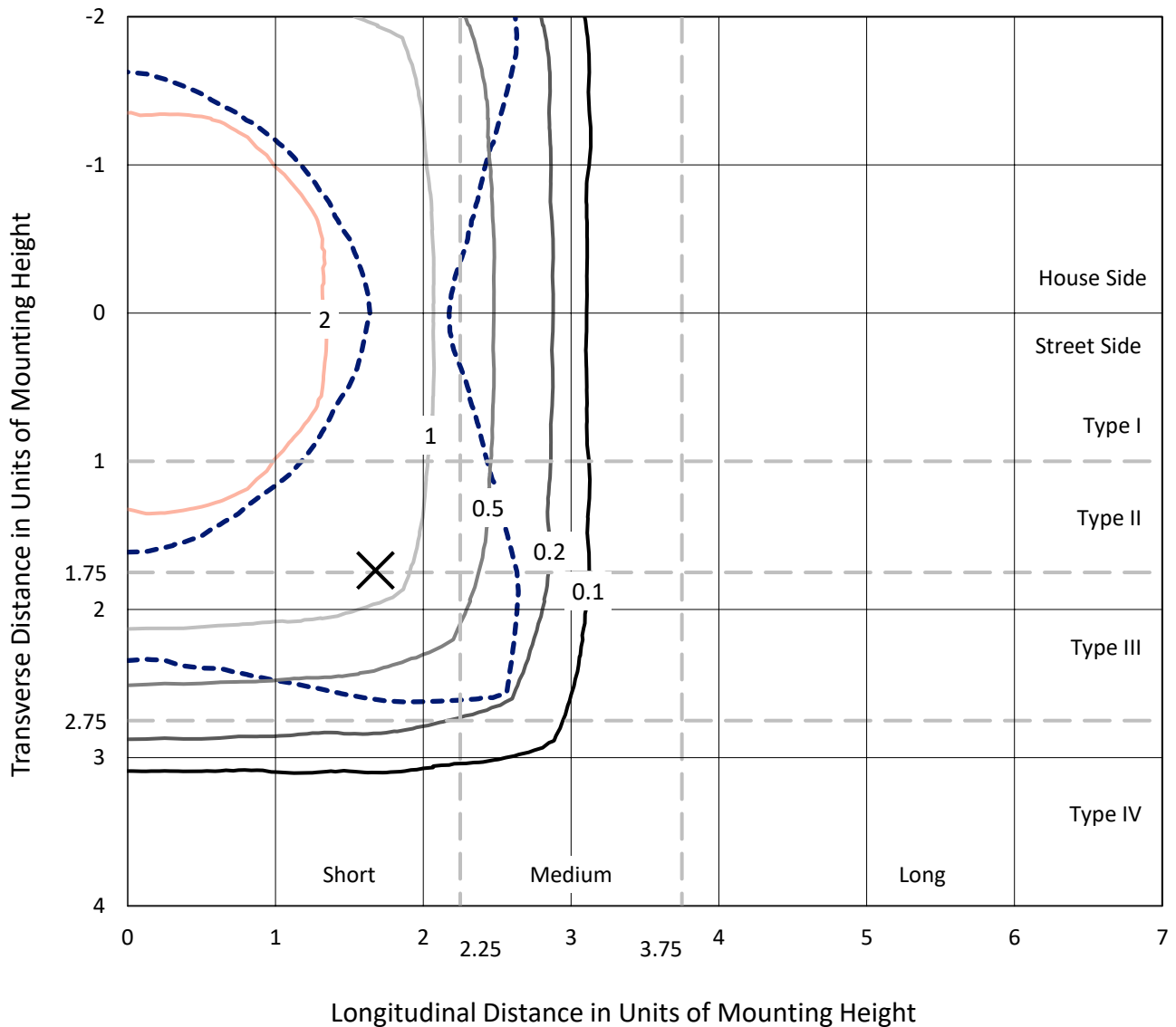
Lumens per Lamp: N/A
Luminaire Lumens: 37593.5 lumens
Efficiency: N/A
Efficacy: 89.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

Input Watts (W): 420.3
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

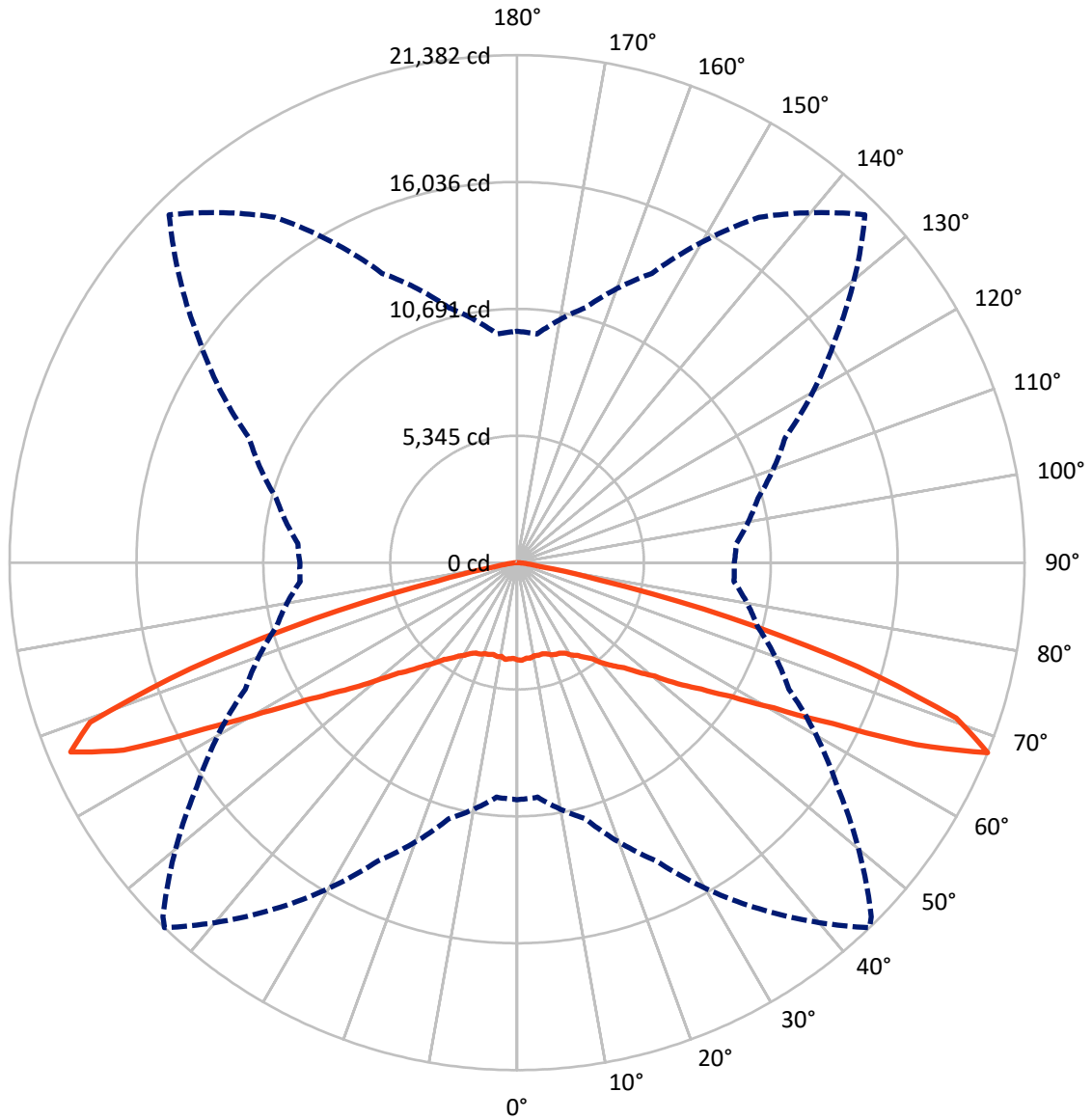
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.6 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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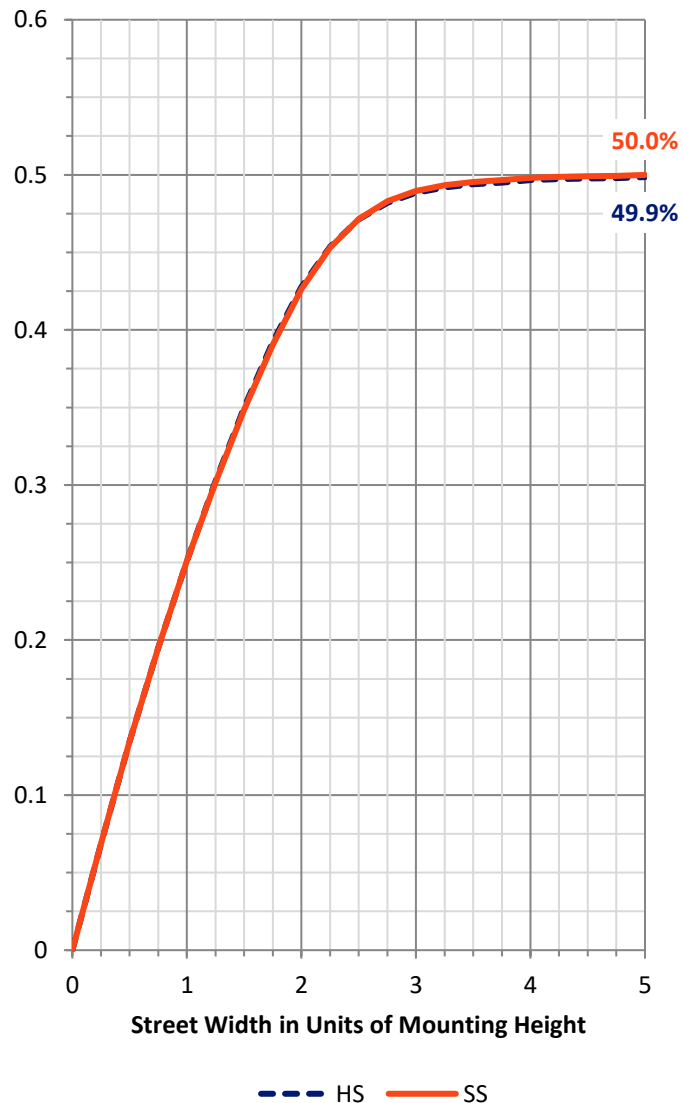
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	18748.6	0.0	18748.6
	% Fixture	49.9	0.0	49.9
Street Side	Lumens	18844.9	0.0	18844.9
	% Fixture	50.1	0.0	50.1
Total	Lumens	37593.5	0.0	37593.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	388.6	1.0
10°-20°	1135.3	3.0
20°-30°	1930.6	5.1
30°-40°	3061.0	8.1
40°-50°	4991.2	13.3
50°-60°	8524.4	22.7
60°-70°	12965.4	34.5
70°-80°	4370.2	11.6
80°-90°	226.9	0.6
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°	37593.5	100.0
0°-180°	37593.5	100.0

Coefficient of Utilization



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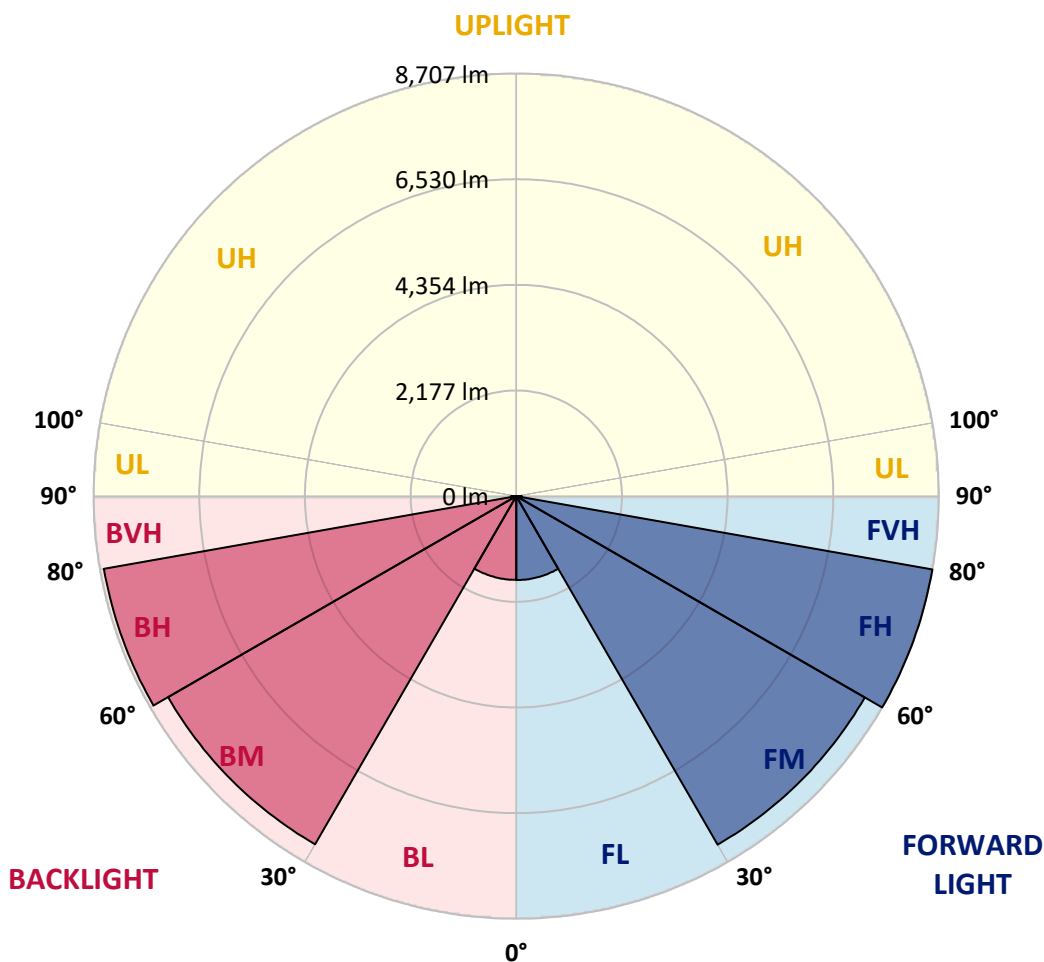
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1729.0	4.6			
FM (30°-60°)	8292.8	22.1			
FH (60°-80°)	8707.1	23.2			G4/12000
FVH (80°-90°)	116.1	0.3			G2/225
BL (0°-30°)	1725.4	4.6	B3/2500		
BM (30°-60°)	8283.8	22.0	B4/8500		
BH (60°-80°)	8628.5	23.0	B5		G4/12000
BVH (80°-90°)	110.8	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G4

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	4106.4	4106.4	4106.4	4106.4	4106.4	4106.4	4106.4	4106.4	4106.4	4106.4	4106.4
2.5°	4012.0	4059.2	4093.6	4089.3	4102.2	4115.0	4097.9	4123.6	4106.4	4136.5	4153.6
5°	4089.3	4076.4	4080.7	4054.9	4115.0	4046.4	4046.4	4080.7	4123.6	4072.1	4102.2
7.5°	4042.1	4033.5	4012.0	4050.7	4063.5	4063.5	4097.9	4033.5	4106.4	4123.6	4127.9
10°	3990.6	3943.4	4007.7	4046.4	4054.9	3986.3	4016.3	4033.5	4012.0	4033.5	4046.4
12.5°	3947.7	3973.4	3973.4	3973.4	3960.5	4007.7	4037.8	4033.5	3990.6	4029.2	3960.5
15°	3943.4	3930.5	3969.1	4003.5	3982.0	3990.6	4003.5	4042.1	3960.5	3977.7	3977.7
17.5°	3939.1	3956.3	3969.1	3964.8	4037.8	4037.8	4024.9	3999.2	4063.5	4029.2	3982.0
20°	3956.3	3943.4	3977.7	3990.6	4042.1	4145.1	4106.4	4085.0	4050.7	4007.7	4007.7
22.5°	3977.7	3969.1	4016.3	4072.1	4170.8	4196.6	4192.3	4166.5	4106.4	4054.9	4046.4
25°	4054.9	3977.7	4029.2	4136.5	4170.8	4222.3	4256.6	4222.3	4140.8	4153.6	4076.4
27.5°	4170.8	4157.9	4226.6	4299.5	4269.5	4316.7	4286.7	4312.4	4316.7	4252.3	4175.1
30°	4308.1	4269.5	4312.4	4454.0	4466.9	4518.4	4466.9	4398.2	4419.7	4363.9	4325.3
32.5°	4505.5	4492.6	4574.2	4668.6	4685.7	4660.0	4634.2	4672.8	4582.7	4539.8	4471.2
35°	4634.2	4690.0	4788.7	4861.6	4917.4	4891.7	4904.6	4865.9	4887.4	4797.3	4767.2
37.5°	5016.1	4994.7	5016.1	5140.6	5153.4	5140.6	5153.4	5196.3	5166.3	5089.1	5011.8
40°	5376.6	5342.2	5393.7	5535.3	5526.7	5569.7	5483.8	5531.0	5531.0	5385.1	5355.1
42.5°	5646.9	5762.7	5822.8	5938.7	5981.6	5943.0	5925.8	5934.4	6028.8	5857.1	5792.8
45°	6204.7	6200.4	6380.6	6445.0	6324.9	6316.3	6282.0	6384.9	6449.3	6350.6	6324.9
47.5°	6809.7	6839.8	6942.8	6968.5	7041.5	6908.4	6908.4	6921.3	7148.7	6917.0	6796.9
50°	7354.7	7393.3	7599.3	7801.0	7663.6	7522.0	7577.8	7646.5	7770.9	7552.1	7449.1
52.5°	8015.5	8225.8	8363.1	8470.3	8569.0	8470.3	8341.6	8418.8	8663.4	8371.6	8242.9
55°	8968.1	9135.4	9264.2	9461.5	9543.1	9410.1	9397.2	9388.6	9525.9	9217.0	9041.0
57.5°	10032.2	9963.6	10169.6	10474.2	10770.3	10641.6	10602.9	10611.5	10645.9	10208.2	10075.2
60°	11353.9	11431.1	11675.7	11941.7	12255.0	12435.2	12182.0	12036.1	12066.2	11469.7	11263.7
62.5°	12109.1	12280.7	12834.2	13748.2	14379.0	14941.1	14979.7	14031.4	13396.4	12237.8	11362.4
65°	11744.3	11718.6	12761.3	14451.9	16842.0	18476.8	18232.3	15932.3	13713.9	11873.1	10697.3
67.5°	9989.3	9920.7	11182.2	13864.1	17811.7	21381.8	21102.9	16468.7	12641.1	10504.3	9174.1
70°	6436.4	6419.3	7788.1	10568.6	15902.3	19631.1	19734.1	14958.3	10289.7	7693.7	6376.4
72.5°	2338.6	2480.2	3274.0	5681.2	10800.3	15018.3	15082.7	11074.9	5917.2	3557.2	2621.8
75°	862.5	888.2	1034.1	1845.1	4921.7	9221.3	9461.5	5372.3	2102.6	1158.6	944.0
77.5°	497.8	502.0	553.5	686.6	1458.9	3600.1	3746.0	1630.6	815.3	617.9	570.7
80°	339.0	334.7	390.5	446.3	583.6	1021.2	1085.6	682.3	514.9	429.1	360.4
82.5°	197.4	210.3	287.5	317.5	356.1	450.5	459.1	424.8	386.2	317.5	236.0
85°	120.1	98.7	158.8	175.9	206.0	201.7	201.7	231.7	248.9	223.1	133.0
87.5°	30.0	30.0	38.6	42.9	55.8	42.9	47.2	90.1	120.1	111.6	68.7
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°	4106.4	4106.4	4106.4	4106.4	4106.4	4106.4	4106.4	4106.4	4106.4	4106.4	4106.4
2.5°	4115.0	4102.2	4110.7	4157.9	4127.9	4037.8	4059.2	4106.4	4067.8	4046.4	4042.1
5°	4097.9	4123.6	4093.6	4102.2	4132.2	4059.2	4072.1	4132.2	4106.4	4115.0	4067.8
7.5°	4102.2	4115.0	4089.3	4050.7	4050.7	4110.7	4076.4	4085.0	4046.4	4110.7	4024.9
10°	4076.4	4042.1	4012.0	4033.5	4024.9	4007.7	3994.9	4020.6	3982.0	4037.8	3977.7
12.5°	3999.2	4007.7	3999.2	3990.6	4007.7	4050.7	3982.0	3990.6	3930.5	3939.1	3969.1
15°	3969.1	3994.9	3986.3	4033.5	4054.9	3990.6	4042.1	3990.6	3943.4	3917.6	3964.8
17.5°	3982.0	4020.6	4007.7	4042.1	4003.5	4050.7	4059.2	4037.8	3982.0	3960.5	3982.0
20°	3994.9	3982.0	3999.2	4059.2	4115.0	4067.8	4067.8	4054.9	4003.5	3973.4	3973.4
22.5°	4024.9	4003.5	4029.2	4076.4	4093.6	4166.5	4102.2	4072.1	3986.3	3909.1	3982.0
25°	4085.0	4097.9	4115.0	4097.9	4192.3	4183.7	4175.1	4153.6	4020.6	4024.9	4012.0
27.5°	4200.8	4127.9	4149.4	4252.3	4265.2	4299.5	4256.6	4295.2	4153.6	4157.9	4072.1
30°	4342.4	4265.2	4333.9	4424.0	4419.7	4484.0	4462.6	4471.2	4372.5	4316.7	4200.8
32.5°	4496.9	4488.3	4531.2	4587.0	4608.5	4642.8	4638.5	4638.5	4578.4	4432.6	4454.0
35°	4668.6	4728.6	4780.1	4840.2	4848.8	4891.7	4831.6	4840.2	4780.1	4672.8	4707.2
37.5°	5007.5	5003.3	5059.0	5132.0	5140.6	5106.2	5153.4	5132.0	5050.5	4977.5	4921.7
40°	5402.3	5316.5	5368.0	5539.6	5552.5	5492.4	5488.1	5483.8	5423.8	5265.0	5230.7
42.5°	5745.6	5857.1	5848.6	5904.4	5865.7	5835.7	5943.0	5882.9	5835.7	5668.3	5638.3
45°	6187.6	6221.9	6333.4	6513.7	6329.2	6329.2	6402.1	6354.9	6329.2	6204.7	6088.9
47.5°	6736.8	6766.8	6990.0	7002.8	6882.7	6801.2	7028.6	7037.2	6929.9	6835.5	6693.9
50°	7380.4	7393.3	7595.0	7801.0	7667.9	7513.5	7745.2	7835.3	7595.0	7466.3	7290.3
52.5°	8088.4	8049.8	8217.2	8603.4	8474.6	8427.4	8676.3	8697.8	8371.6	8170.0	8217.2
55°	8903.7	8852.2	9307.1	9568.8	9487.3	9401.5	9513.0	9564.5	9302.8	8972.4	9088.2
57.5°	9959.3	9985.0	10212.5	10469.9	10602.9	10624.4	10675.9	10624.4	10358.4	10023.7	9916.4
60°	11014.9	11092.1	11534.1	12019.0	12061.9	12439.5	12370.8	12113.4	11735.8	11259.5	11280.9
62.5°	11405.4	11341.0	12053.3	13237.6	14246.0	14936.8	14632.1	13718.2	12842.8	11976.0	12040.4
65°	10620.1	10778.9	11748.6	13602.3	15790.7	18524.0	16902.1	14374.7	12606.8	11486.9	11362.4
67.5°	9152.6	9272.7	10504.3	12460.9	16344.2	20729.6	17760.3	13447.8	11117.9	9667.5	9744.8
70°	6376.4	6436.4	7642.2	10208.2	14820.9	19562.5	16022.4	10328.3	7676.5	6118.9	6204.7
72.5°	2566.0	2711.9	3505.7	6148.9	10941.9	14863.9	10787.5	5419.5	3183.9	2368.6	2149.8
75°	948.3	952.6	1119.9	2115.4	5196.3	9341.4	4865.9	1742.1	1017.0	832.4	793.8
77.5°	549.2	545.0	583.6	763.8	1506.1	3647.3	1381.7	682.3	553.5	497.8	476.3
80°	343.3	339.0	399.1	506.3	660.8	999.8	583.6	424.8	373.3	321.8	321.8
82.5°	218.8	223.1	313.2	373.3	403.3	442.0	339.0	300.4	278.9	184.5	180.2
85°	141.6	128.7	218.8	248.9	223.1	197.4	188.8	158.8	145.9	90.1	98.7
87.5°	64.4	68.7	111.6	124.4	81.5	47.2	47.2	34.3	34.3	21.5	21.5
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)