

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: P479237

Luminaire Tested: **IFLD-L-SA7D-727-U-5MQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479237
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7D-727-U-5MQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5MQ distribution lens
Light Source: (112) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

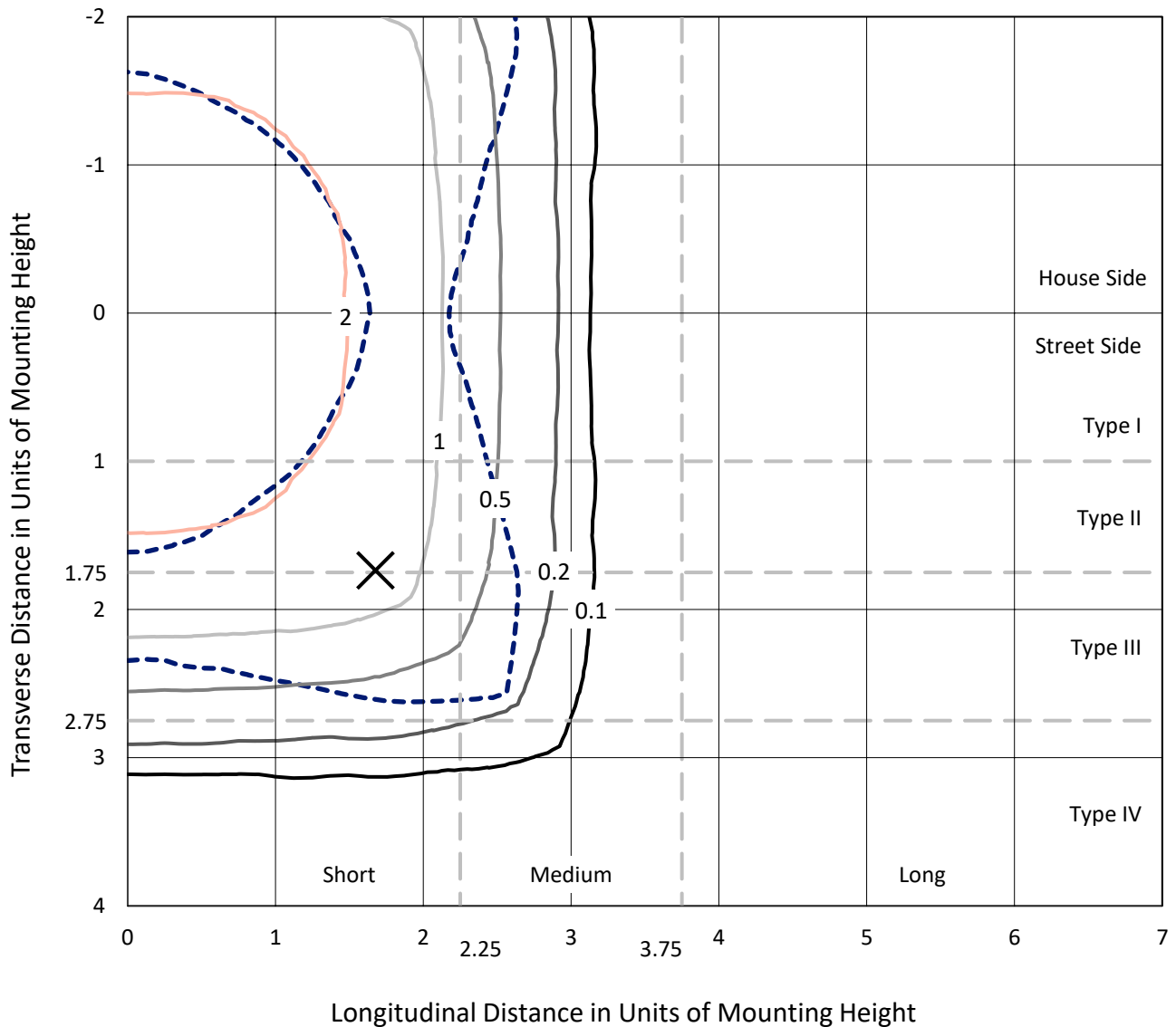
Lumens per Lamp: N/A
Luminaire Lumens: 41177.8 lumens
Efficiency: N/A
Efficacy: 97.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

Input Watts (W): 422.6
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

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Iso-Footcandle Lines of Horizontal Illumination

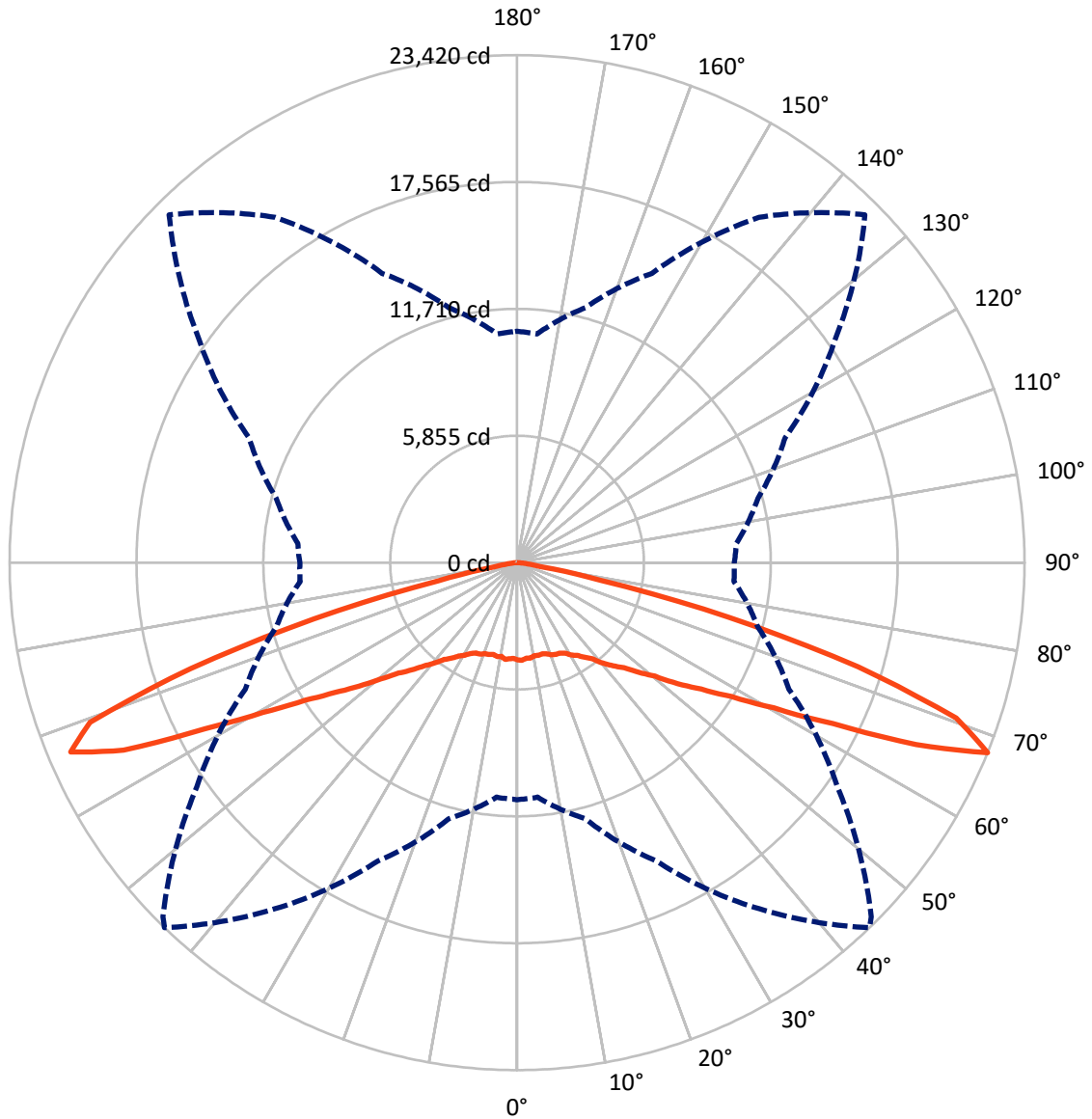
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5 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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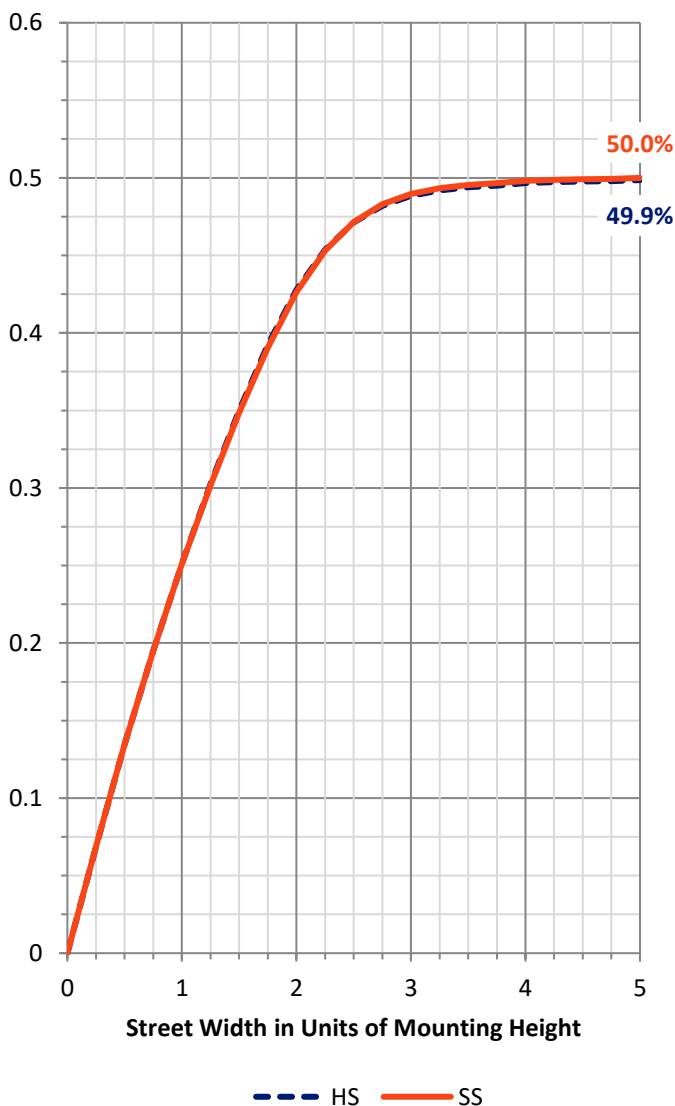
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	20536.2	0.0	20536.2
	% Fixture	49.9	0.0	49.9
Street Side	Lumens	20641.6	0.0	20641.6
	% Fixture	50.1	0.0	50.1
Total	Lumens	41177.8	0.0	41177.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	425.6	1.0
10°-20°	1243.5	3.0
20°-30°	2114.7	5.1
30°-40°	3352.9	8.1
40°-50°	5467.1	13.3
50°-60°	9337.1	22.7
60°-70°	14201.6	34.5
70°-80°	4786.8	11.6
80°-90°	248.5	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°	41177.8	100.0
0°-180°	41177.8	100.0

Coefficient of Utilization



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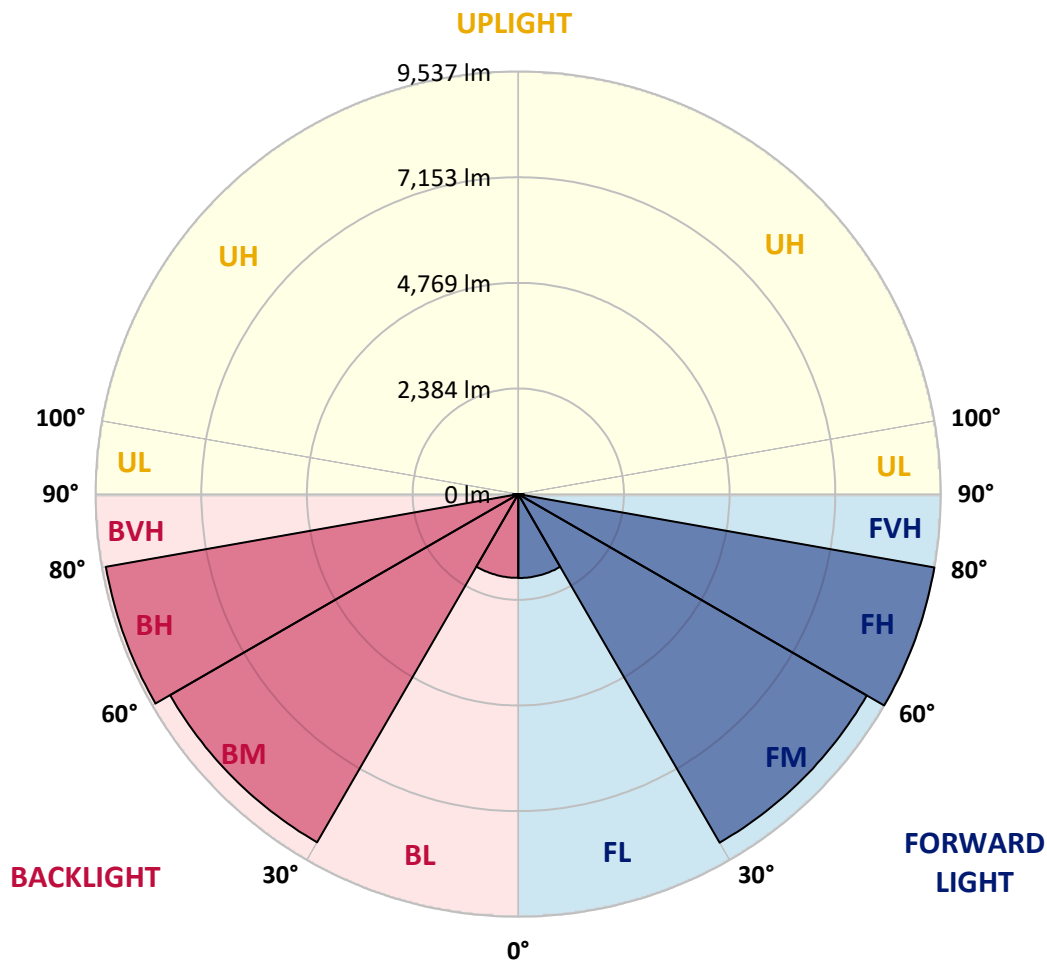
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1893.9	4.6			
FM (30°-60°)	9083.4	22.1			
FH (60°-80°)	9537.2	23.2			G4/12000
FVH (80°-90°)	127.1	0.3			G2/225
BL (0°-30°)	1890.0	4.6	B3/2500		
BM (30°-60°)	9073.6	22.0	B5		
BH (60°-80°)	9451.2	23.0	B5		G4/12000
BVH (80°-90°)	121.4	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°	4498.0	4498.0	4498.0	4498.0	4498.0	4498.0	4498.0	4498.0	4498.0	4498.0	4498.0
2.5°	4394.6	4446.3	4483.9	4479.2	4493.3	4507.4	4488.6	4516.8	4498.0	4530.9	4549.7
5°	4479.2	4465.1	4469.8	4441.6	4507.4	4432.2	4432.2	4469.8	4516.8	4460.4	4493.3
7.5°	4427.5	4418.1	4394.6	4436.9	4451.0	4451.0	4488.6	4418.1	4498.0	4516.8	4521.5
10°	4371.1	4319.4	4389.9	4432.2	4441.6	4366.4	4399.3	4418.1	4394.6	4418.1	4432.2
12.5°	4324.1	4352.3	4352.3	4352.3	4338.2	4389.9	4422.8	4418.1	4371.1	4413.4	4338.2
15°	4319.4	4305.3	4347.6	4385.2	4361.7	4371.1	4385.2	4427.5	4338.2	4357.0	4357.0
17.5°	4314.7	4333.5	4347.6	4342.9	4422.8	4422.8	4408.7	4380.5	4451.0	4413.4	4361.7
20°	4333.5	4319.4	4357.0	4371.1	4427.5	4540.3	4498.0	4474.5	4436.9	4389.9	4389.9
22.5°	4357.0	4347.6	4399.3	4460.4	4568.5	4596.7	4592.0	4563.8	4498.0	4441.6	4432.2
25°	4441.6	4357.0	4413.4	4530.9	4568.5	4624.9	4662.5	4624.9	4535.6	4549.7	4465.1
27.5°	4568.5	4554.4	4629.6	4709.5	4676.6	4728.3	4695.4	4723.6	4728.3	4657.8	4573.2
30°	4718.9	4676.6	4723.6	4878.7	4892.8	4949.2	4892.8	4817.6	4841.1	4780.0	4737.7
32.5°	4935.1	4921.0	5010.3	5113.7	5132.5	5104.3	5076.1	5118.4	5019.7	4972.7	4897.5
35°	5076.1	5137.2	5245.3	5325.2	5386.3	5358.1	5372.2	5329.9	5353.4	5254.7	5221.8
37.5°	5494.4	5470.9	5494.4	5630.7	5644.8	5630.7	5644.8	5691.8	5658.9	5574.3	5489.7
40°	5889.2	5851.6	5908.0	6063.1	6053.7	6100.7	6006.7	6058.4	6058.4	5898.6	5865.7
42.5°	6185.3	6312.2	6378.0	6504.9	6551.9	6509.6	6490.8	6500.2	6603.6	6415.6	6345.1
45°	6796.3	6791.6	6989.0	7059.5	6927.9	6918.5	6880.9	6993.7	7064.2	6956.1	6927.9
47.5°	7459.0	7491.9	7604.7	7632.9	7712.8	7567.1	7567.1	7581.2	7830.3	7576.5	7444.9
50°	8055.9	8098.2	8323.8	8544.7	8394.3	8239.2	8300.3	8375.5	8511.8	8272.1	8159.3
52.5°	8779.7	9010.0	9160.4	9277.9	9386.0	9277.9	9136.9	9221.5	9489.4	9169.8	9028.8
55°	9823.1	10006.4	10147.4	10363.6	10452.9	10307.2	10293.1	10283.7	10434.1	10095.7	9903.0
57.5°	10988.7	10913.5	11139.1	11472.9	11797.2	11656.2	11613.9	11623.3	11660.9	11181.4	11035.7
60°	12436.4	12521.0	12788.9	13080.3	13423.4	13620.8	13343.5	13183.7	13216.6	12563.3	12337.7
62.5°	13263.6	13451.6	14057.9	15059.0	15749.9	16365.6	16407.9	15369.2	14673.6	13404.6	12445.8
65°	12864.1	12835.9	13978.0	15829.8	18447.7	20238.5	19970.6	17451.3	15021.4	13005.1	11717.3
67.5°	10941.7	10866.5	12248.4	15185.9	19510.0	23420.4	23114.9	18038.8	13846.4	11505.8	10048.7
70°	7050.1	7031.3	8530.6	11576.3	17418.4	21502.8	21615.6	16384.4	11270.7	8427.2	6984.3
72.5°	2561.5	2716.6	3586.1	6222.9	11830.1	16450.2	16520.7	12130.9	6481.4	3896.4	2871.7
75°	944.7	972.9	1132.7	2021.0	5391.0	10100.4	10363.6	5884.5	2303.0	1269.0	1034.0
77.5°	545.2	549.9	606.3	752.0	1598.0	3943.4	4103.2	1786.0	893.0	676.8	625.1
80°	371.3	366.6	427.7	488.8	639.2	1118.6	1189.1	747.3	564.0	470.0	394.8
82.5°	216.2	230.3	314.9	347.8	390.1	493.5	502.9	465.3	423.0	347.8	258.5
85°	131.6	108.1	173.9	192.7	225.6	220.9	220.9	253.8	272.6	244.4	145.7
87.5°	32.9	32.9	42.3	47.0	61.1	47.0	51.7	98.7	131.6	122.2	75.2
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°	4498.0	4498.0	4498.0	4498.0	4498.0	4498.0	4498.0	4498.0	4498.0	4498.0	4498.0
2.5°	4507.4	4493.3	4502.7	4554.4	4521.5	4422.8	4446.3	4498.0	4455.7	4432.2	4427.5
5°	4488.6	4516.8	4483.9	4493.3	4526.2	4446.3	4460.4	4526.2	4498.0	4507.4	4455.7
7.5°	4493.3	4507.4	4479.2	4436.9	4436.9	4502.7	4465.1	4474.5	4432.2	4502.7	4408.7
10°	4465.1	4427.5	4394.6	4418.1	4408.7	4389.9	4375.8	4404.0	4361.7	4422.8	4357.0
12.5°	4380.5	4389.9	4380.5	4371.1	4389.9	4436.9	4361.7	4371.1	4305.3	4314.7	4347.6
15°	4347.6	4375.8	4366.4	4418.1	4441.6	4371.1	4427.5	4371.1	4319.4	4291.2	4342.9
17.5°	4361.7	4404.0	4389.9	4427.5	4385.2	4436.9	4446.3	4422.8	4361.7	4338.2	4361.7
20°	4375.8	4361.7	4380.5	4446.3	4507.4	4455.7	4455.7	4441.6	4385.2	4352.3	4352.3
22.5°	4408.7	4385.2	4413.4	4465.1	4483.9	4563.8	4493.3	4460.4	4366.4	4281.8	4361.7
25°	4474.5	4488.6	4507.4	4488.6	4592.0	4582.6	4573.2	4549.7	4404.0	4408.7	4394.6
27.5°	4601.4	4521.5	4545.0	4657.8	4671.9	4709.5	4662.5	4704.8	4549.7	4554.4	4460.4
30°	4756.5	4671.9	4747.1	4845.8	4841.1	4911.6	4888.1	4897.5	4789.4	4728.3	4601.4
32.5°	4925.7	4916.3	4963.3	5024.4	5047.9	5085.5	5080.8	5080.8	5015.0	4855.2	4878.7
35°	5113.7	5179.5	5235.9	5301.7	5311.1	5358.1	5292.3	5301.7	5235.9	5118.4	5156.0
37.5°	5485.0	5480.3	5541.4	5621.3	5630.7	5593.1	5644.8	5621.3	5532.0	5452.1	5391.0
40°	5917.4	5823.4	5879.8	6067.8	6081.9	6016.1	6011.4	6006.7	5940.9	5767.0	5729.4
42.5°	6293.4	6415.6	6406.2	6467.3	6425.0	6392.1	6509.6	6443.8	6392.1	6208.8	6175.9
45°	6777.5	6815.1	6937.3	7134.7	6932.6	6932.6	7012.5	6960.8	6932.6	6796.3	6669.4
47.5°	7379.1	7412.0	7656.4	7670.5	7538.9	7449.6	7698.7	7708.1	7590.6	7487.2	7332.1
50°	8084.1	8098.2	8319.1	8544.7	8399.0	8229.8	8483.6	8582.3	8319.1	8178.1	7985.4
52.5°	8859.6	8817.3	9000.6	9423.6	9282.6	9230.9	9503.5	9527.0	9169.8	8948.9	9000.6
55°	9752.6	9696.2	10194.4	10481.1	10391.8	10297.8	10420.0	10476.4	10189.7	9827.8	9954.7
57.5°	10908.8	10937.0	11186.1	11468.2	11613.9	11637.4	11693.8	11637.4	11346.0	10979.3	10861.8
60°	12065.1	12149.7	12633.8	13164.9	13211.9	13625.5	13550.3	13268.3	12854.7	12333.0	12356.5
62.5°	12492.8	12422.3	13202.5	14499.7	15604.2	16360.9	16027.2	15026.1	14067.3	13117.9	13188.4
65°	11632.7	11806.6	12868.8	14899.2	17296.2	20290.2	18513.5	15745.2	13808.8	12582.1	12445.8
67.5°	10025.2	10156.8	11505.8	13649.0	17902.5	22706.0	19453.6	14730.0	12177.9	10589.2	10673.8
70°	6984.3	7050.1	8370.8	11181.4	16234.0	21427.6	17550.0	11313.1	8408.4	6702.3	6796.3
72.5°	2810.6	2970.4	3840.0	6735.2	11985.2	16281.0	11816.0	5936.2	3487.4	2594.4	2354.7
75°	1038.7	1043.4	1226.7	2317.1	5691.8	10232.0	5329.9	1908.2	1113.9	911.8	869.5
77.5°	601.6	596.9	639.2	836.6	1649.7	3995.1	1513.4	747.3	606.3	545.2	521.7
80°	376.0	371.3	437.1	554.6	723.8	1095.1	639.2	465.3	408.9	352.5	352.5
82.5°	239.7	244.4	343.1	408.9	441.8	484.1	371.3	329.0	305.5	202.1	197.4
85°	155.1	141.0	239.7	272.6	244.4	216.2	206.8	173.9	159.8	98.7	108.1
87.5°	70.5	75.2	122.2	136.3	89.3	51.7	51.7	37.6	37.6	23.5	23.5
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)