

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: P479265

Luminaire Tested: **IFLD-S-SA6C-730-U-5MQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479265
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6C-730-U-5MQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5MQ
distribution lens
Light Source: (96) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

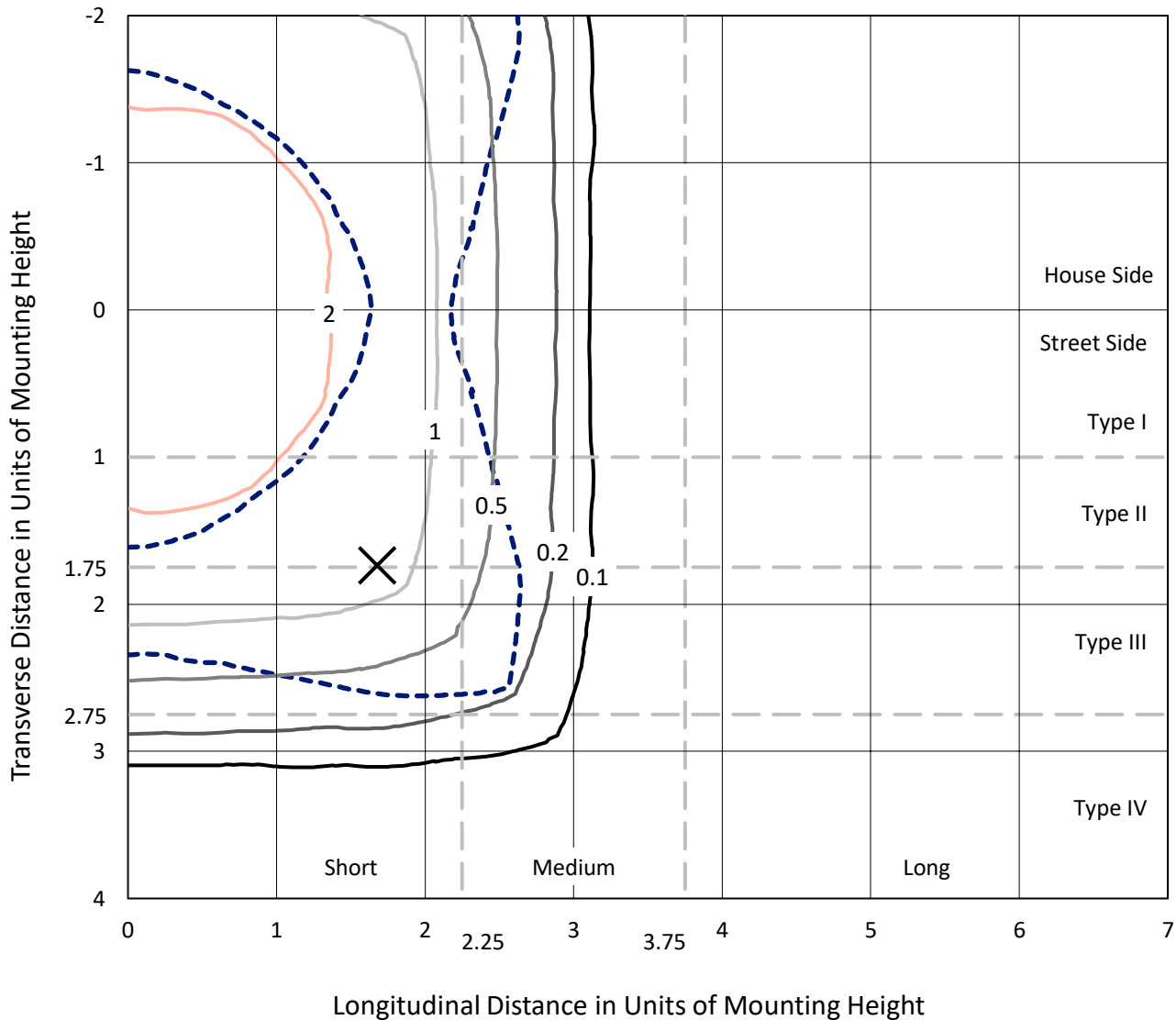
Lumens per Lamp: N/A
Luminaire Lumens: 38193.1 lumens
Efficiency: N/A
Efficacy: 118.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

Input Watts (W): 321.5
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

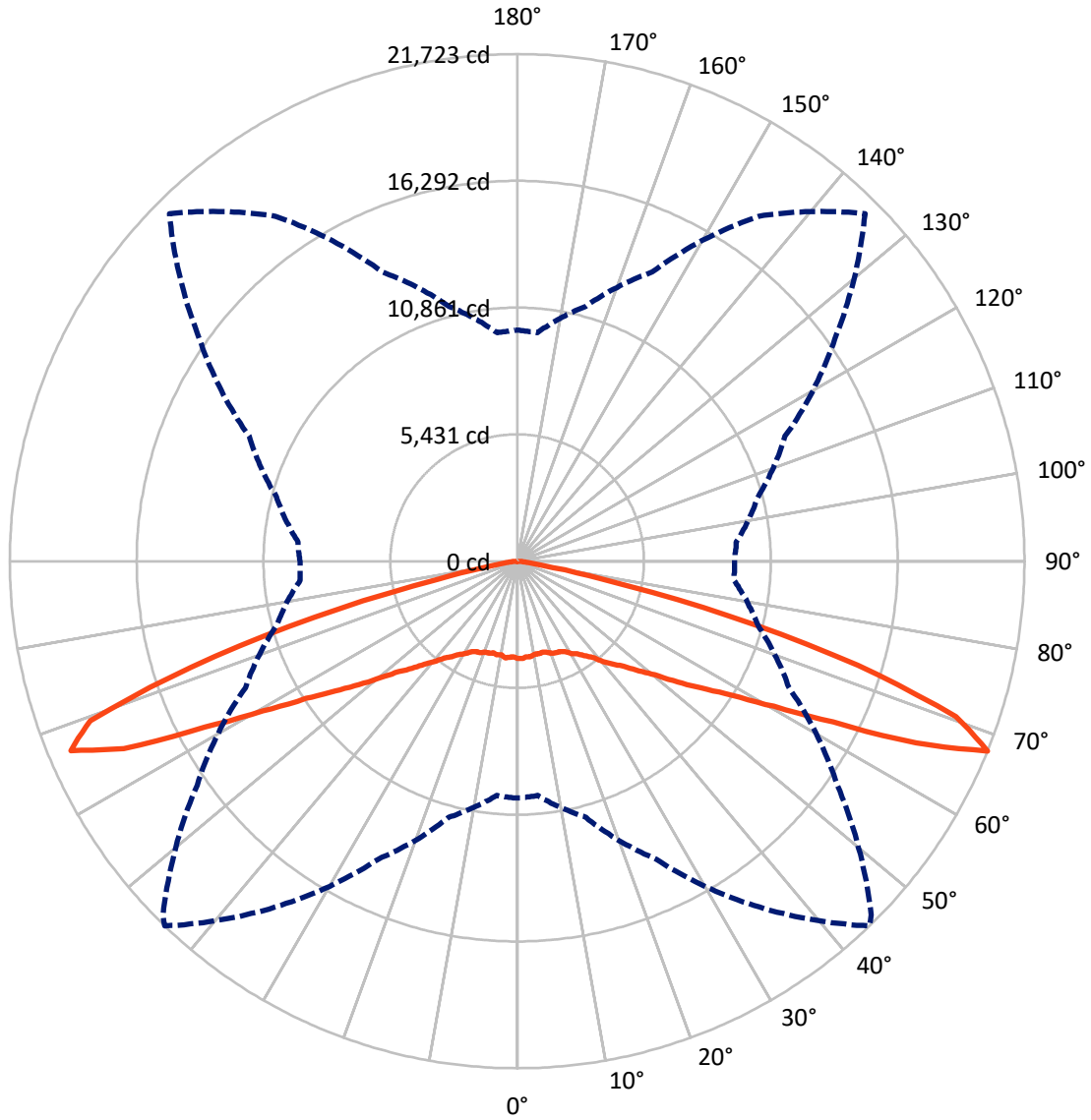
✕ Max cd
 - - - 1/2 Max cd



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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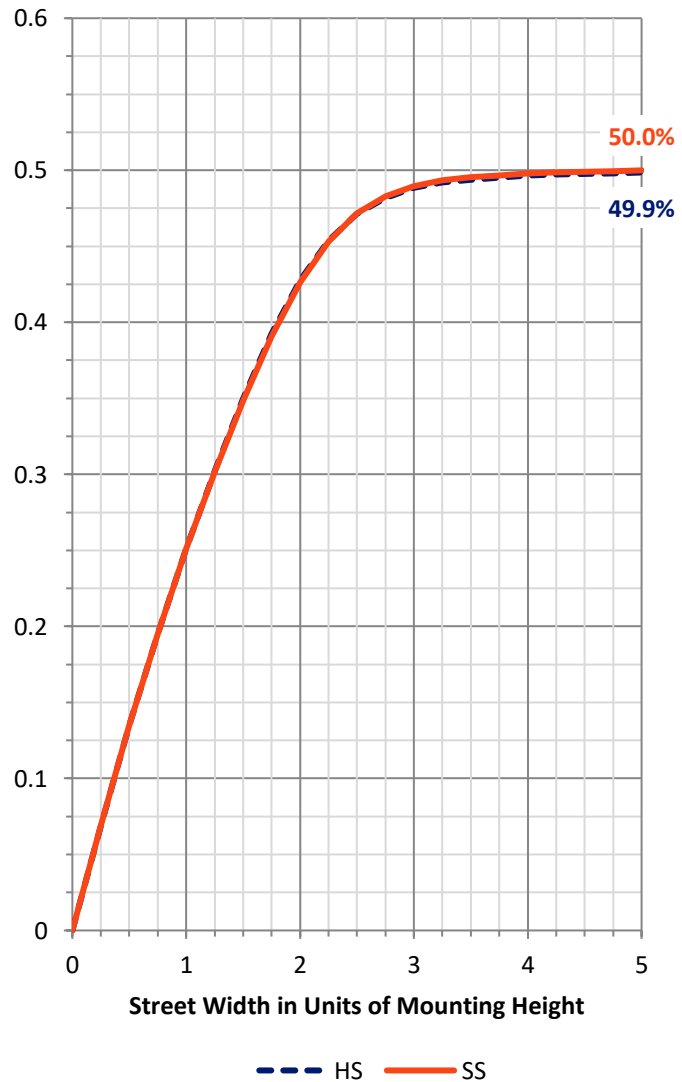
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	19047.6	0.0	19047.6
	% Fixture	49.9	0.0	49.9
Street Side	Lumens	19145.4	0.0	19145.4
	% Fixture	50.1	0.0	50.1
Total	Lumens	38193.1	0.0	38193.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	394.8	1.0
10°-20°	1153.4	3.0
20°-30°	1961.4	5.1
30°-40°	3109.8	8.1
40°-50°	5070.8	13.3
50°-60°	8660.3	22.7
60°-70°	13172.2	34.5
70°-80°	4439.9	11.6
80°-90°	230.5	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°	38193.1	100.0
0°-180°	38193.1	100.0

Coefficient of Utilization

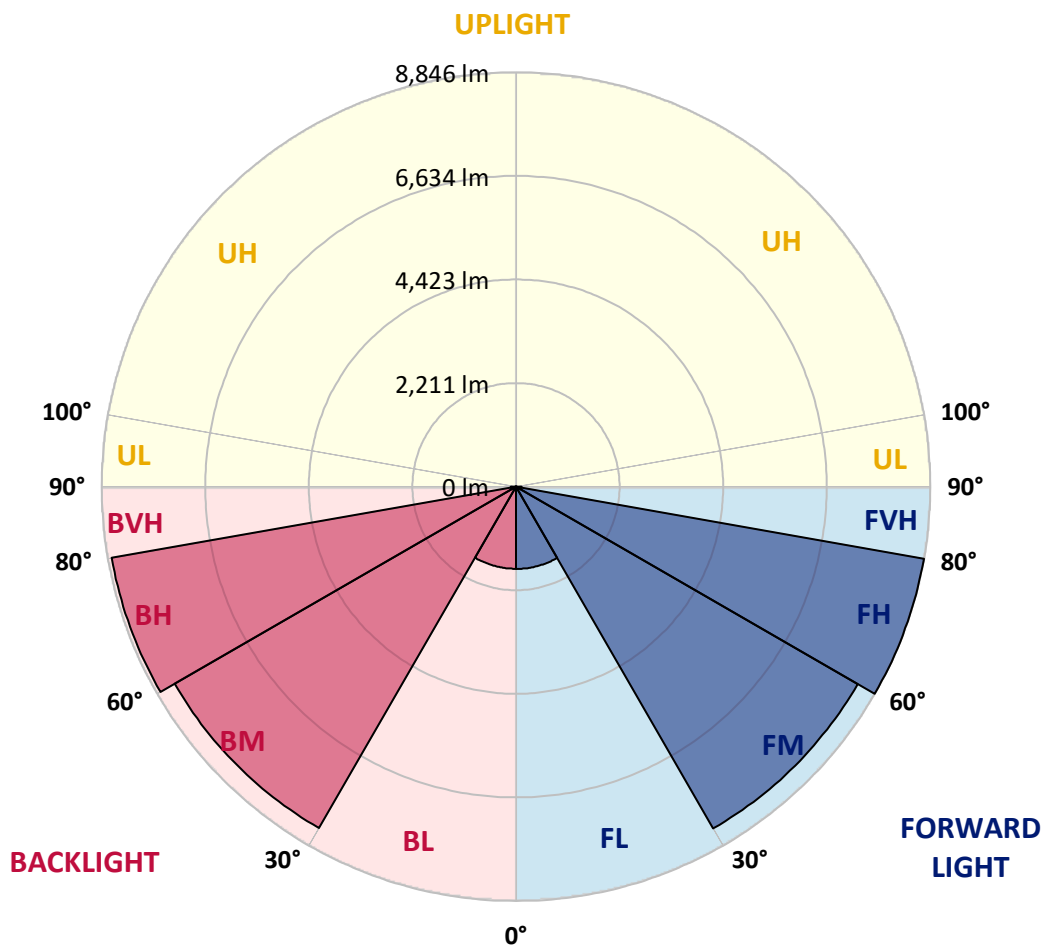


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1756.6	4.6			
FM (30°-60°)	8425.0	22.1			
FH (60°-80°)	8845.9	23.2			G4/12000
FVH (80°-90°)	117.9	0.3			G2/225
BL (0°-30°)	1753.0	4.6	B3/2500		
BM (30°-60°)	8415.9	22.0	B4/8500		
BH (60°-80°)	8766.2	23.0	B5		G4/12000
BVH (80°-90°)	112.6	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°	4171.9	4171.9	4171.9	4171.9	4171.9	4171.9	4171.9	4171.9	4171.9	4171.9	4171.9
2.5°	4076.0	4124.0	4158.9	4154.5	4167.6	4180.7	4163.2	4189.4	4171.9	4202.5	4219.9
5°	4154.5	4141.4	4145.8	4119.6	4180.7	4110.9	4110.9	4145.8	4189.4	4137.1	4167.6
7.5°	4106.5	4097.8	4076.0	4115.3	4128.3	4128.3	4163.2	4097.8	4171.9	4189.4	4193.7
10°	4054.2	4006.3	4071.7	4110.9	4119.6	4049.9	4080.4	4097.8	4076.0	4097.8	4110.9
12.5°	4010.6	4036.8	4036.8	4036.8	4023.7	4071.7	4102.2	4097.8	4054.2	4093.5	4023.7
15°	4006.3	3993.2	4032.4	4067.3	4045.5	4054.2	4067.3	4106.5	4023.7	4041.2	4041.2
17.5°	4001.9	4019.4	4032.4	4028.1	4102.2	4102.2	4089.1	4063.0	4128.3	4093.5	4045.5
20°	4019.4	4006.3	4041.2	4054.2	4106.5	4211.2	4171.9	4150.1	4115.3	4071.7	4071.7
22.5°	4041.2	4032.4	4080.4	4137.1	4237.3	4263.5	4259.1	4233.0	4171.9	4119.6	4110.9
25°	4119.6	4041.2	4093.5	4202.5	4237.3	4289.6	4324.5	4289.6	4206.8	4219.9	4141.4
27.5°	4237.3	4224.2	4294.0	4368.1	4337.6	4385.5	4355.0	4381.2	4385.5	4320.2	4241.7
30°	4376.8	4337.6	4381.2	4525.0	4538.1	4590.4	4538.1	4468.4	4490.2	4433.5	4394.3
32.5°	4577.4	4564.3	4647.1	4743.0	4760.5	4734.3	4708.1	4747.4	4655.8	4612.2	4542.5
35°	4708.1	4764.8	4865.1	4939.2	4995.9	4969.7	4982.8	4943.5	4965.3	4873.8	4843.3
37.5°	5096.1	5074.3	5096.1	5222.5	5235.6	5222.5	5235.6	5279.2	5248.7	5170.2	5091.8
40°	5462.3	5427.4	5479.8	5623.6	5614.9	5658.5	5571.3	5619.3	5619.3	5471.0	5440.5
42.5°	5737.0	5854.7	5915.7	6033.4	6077.0	6037.8	6020.3	6029.0	6124.9	5950.6	5885.2
45°	6303.7	6299.3	6482.4	6547.8	6425.7	6417.0	6382.1	6486.8	6552.2	6451.9	6425.7
47.5°	6918.4	6948.9	7053.5	7079.6	7153.8	7018.6	7018.6	7031.7	7262.7	7027.3	6905.3
50°	7472.0	7511.2	7720.5	7925.4	7785.9	7642.0	7698.7	7768.4	7894.9	7672.5	7567.9
52.5°	8143.3	8357.0	8496.5	8605.4	8705.7	8605.4	8474.7	8553.1	8801.6	8505.2	8374.4
55°	9111.1	9281.1	9411.9	9612.5	9695.3	9560.1	9547.1	9538.3	9677.8	9364.0	9185.2
57.5°	10192.3	10122.5	10331.8	10641.3	10942.1	10811.3	10772.1	10780.8	10815.6	10371.0	10235.8
60°	11534.9	11613.4	11861.9	12132.2	12450.4	12633.5	12376.3	12228.1	12258.6	11652.6	11443.4
62.5°	12302.2	12476.6	13038.9	13967.5	14608.3	15179.4	15218.6	14255.2	13610.0	12433.0	11543.7
65°	11931.6	11905.5	12964.8	14682.4	17110.6	18771.5	18523.0	16186.4	13932.6	12062.4	10868.0
67.5°	10148.7	10078.9	11360.6	14085.2	18095.8	21722.8	21439.5	16731.3	12842.8	10671.8	9320.4
70°	6539.1	6521.6	7912.3	10737.2	16155.9	19944.2	20048.8	15196.8	10453.8	7816.4	6478.1
72.5°	2375.9	2519.7	3326.2	5771.8	10972.6	15257.9	15323.3	11251.6	6011.6	3613.9	2663.6
75°	876.2	902.4	1050.6	1874.5	5000.2	9368.3	9612.5	5458.0	2136.1	1177.0	959.1
77.5°	505.7	510.0	562.4	697.5	1482.2	3657.5	3805.7	1656.6	828.3	627.8	579.8
80°	344.4	340.0	396.7	453.4	592.9	1037.5	1102.9	693.1	523.1	435.9	366.2
82.5°	200.5	213.6	292.1	322.6	361.8	457.7	466.5	431.6	392.3	322.6	239.8
85°	122.1	100.3	161.3	178.7	209.3	204.9	204.9	235.4	252.8	226.7	135.1
87.5°	30.5	30.5	39.2	43.6	56.7	43.6	48.0	91.5	122.1	113.3	69.8
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°	4171.9	4171.9	4171.9	4171.9	4171.9	4171.9	4171.9	4171.9	4171.9	4171.9	4171.9
2.5°	4180.7	4167.6	4176.3	4224.2	4193.7	4102.2	4124.0	4171.9	4132.7	4110.9	4106.5
5°	4163.2	4189.4	4158.9	4167.6	4198.1	4124.0	4137.1	4198.1	4171.9	4180.7	4132.7
7.5°	4167.6	4180.7	4154.5	4115.3	4115.3	4176.3	4141.4	4150.1	4110.9	4176.3	4089.1
10°	4141.4	4106.5	4076.0	4097.8	4089.1	4071.7	4058.6	4084.7	4045.5	4102.2	4041.2
12.5°	4063.0	4071.7	4063.0	4054.2	4071.7	4115.3	4045.5	4054.2	3993.2	4001.9	4032.4
15°	4032.4	4058.6	4049.9	4097.8	4119.6	4054.2	4106.5	4054.2	4006.3	3980.1	4028.1
17.5°	4045.5	4084.7	4071.7	4106.5	4067.3	4115.3	4124.0	4102.2	4045.5	4023.7	4045.5
20°	4058.6	4045.5	4063.0	4124.0	4180.7	4132.7	4132.7	4119.6	4067.3	4036.8	4036.8
22.5°	4089.1	4067.3	4093.5	4141.4	4158.9	4233.0	4167.6	4137.1	4049.9	3971.4	4045.5
25°	4150.1	4163.2	4180.7	4163.2	4259.1	4250.4	4241.7	4219.9	4084.7	4089.1	4076.0
27.5°	4267.8	4193.7	4215.5	4320.2	4333.2	4368.1	4324.5	4363.7	4219.9	4224.2	4137.1
30°	4411.7	4333.2	4403.0	4494.5	4490.2	4555.6	4533.8	4542.5	4442.2	4385.5	4267.8
32.5°	4568.6	4559.9	4603.5	4660.2	4682.0	4716.9	4712.5	4712.5	4651.5	4503.2	4525.0
35°	4743.0	4804.0	4856.4	4917.4	4926.1	4969.7	4908.7	4917.4	4856.4	4747.4	4782.3
37.5°	5087.4	5083.0	5139.7	5213.8	5222.5	5187.7	5235.6	5213.8	5131.0	5056.9	5000.2
40°	5488.5	5401.3	5453.6	5628.0	5641.1	5580.0	5575.7	5571.3	5510.3	5349.0	5314.1
42.5°	5837.2	5950.6	5941.8	5998.5	5959.3	5928.8	6037.8	5976.7	5928.8	5758.8	5728.2
45°	6286.2	6321.1	6434.5	6617.6	6430.1	6430.1	6504.2	6456.3	6430.1	6303.7	6186.0
47.5°	6844.2	6874.8	7101.4	7114.5	6992.5	6909.6	7140.7	7149.4	7040.4	6944.5	6800.6
50°	7498.2	7511.2	7716.1	7925.4	7790.2	7633.3	7868.7	7960.2	7716.1	7585.3	7406.6
52.5°	8217.4	8178.2	8348.2	8740.6	8609.8	8561.8	8814.7	8836.5	8505.2	8300.3	8348.2
55°	9045.7	8993.4	9455.5	9721.4	9638.6	9551.4	9664.8	9717.1	9451.2	9115.5	9233.2
57.5°	10118.1	10144.3	10375.3	10636.9	10772.1	10793.8	10846.2	10793.8	10523.6	10183.5	10074.5
60°	11190.6	11269.0	11718.0	12210.7	12254.2	12637.9	12568.1	12306.6	11922.9	11439.0	11460.8
62.5°	11587.3	11521.9	12245.5	13448.7	14473.2	15175.0	14865.5	13937.0	13047.7	12167.1	12232.4
65°	10789.5	10950.8	11936.0	13819.3	16042.6	18819.5	17171.6	14604.0	12807.9	11670.1	11543.7
67.5°	9298.6	9420.6	10671.8	12659.7	16604.9	21060.2	18043.5	13662.3	11295.2	9821.7	9900.2
70°	6478.1	6539.1	7764.1	10371.0	15057.3	19874.5	16278.0	10493.1	7798.9	6216.5	6303.7
72.5°	2606.9	2755.1	3561.6	6247.0	11116.4	15100.9	10959.5	5505.9	3234.7	2406.4	2184.1
75°	963.4	967.8	1137.8	2149.2	5279.2	9490.4	4943.5	1769.9	1033.2	845.7	806.5
77.5°	558.0	553.6	592.9	776.0	1530.1	3705.5	1403.7	693.1	562.4	505.7	483.9
80°	348.8	344.4	405.4	514.4	671.3	1015.7	592.9	431.6	379.3	327.0	327.0
82.5°	222.3	226.7	318.2	379.3	409.8	449.0	344.4	305.2	283.4	187.5	183.1
85°	143.9	130.8	222.3	252.8	226.7	200.5	191.8	161.3	148.2	91.5	100.3
87.5°	65.4	69.8	113.3	126.4	82.8	48.0	48.0	34.9	34.9	21.8	21.8
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)