

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: P479266

Luminaire Tested: **IFLD-S-SA6D-730-U-5MQ**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P479266
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6D-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

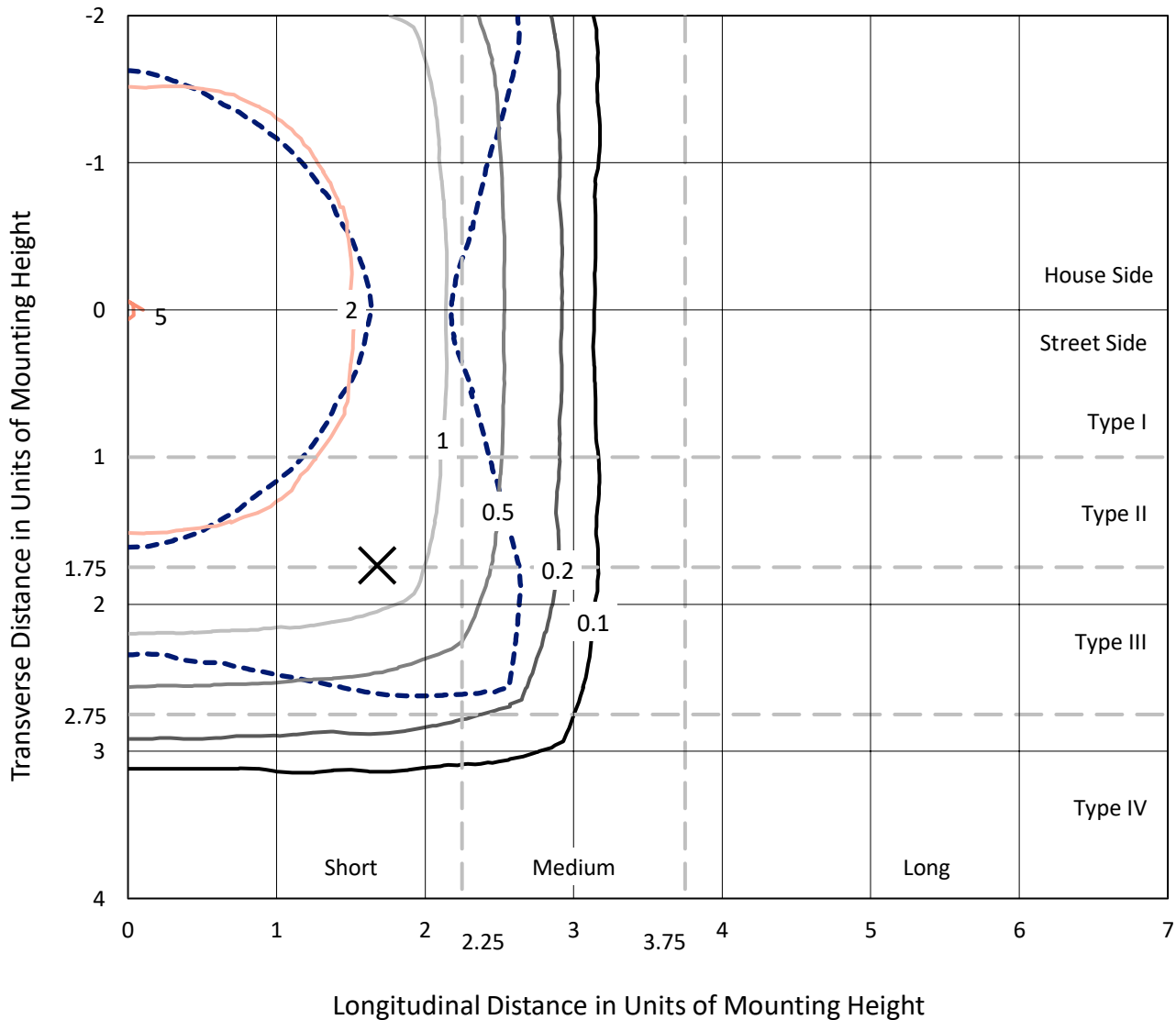
Lumens per Lamp: N/A
Luminaire Lumens: 42026.1 lumens
Efficiency: N/A
Efficacy: 114.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

Input Watts (W): 368.2
Input Voltage (V): 120
Input Current (A_{in}): 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

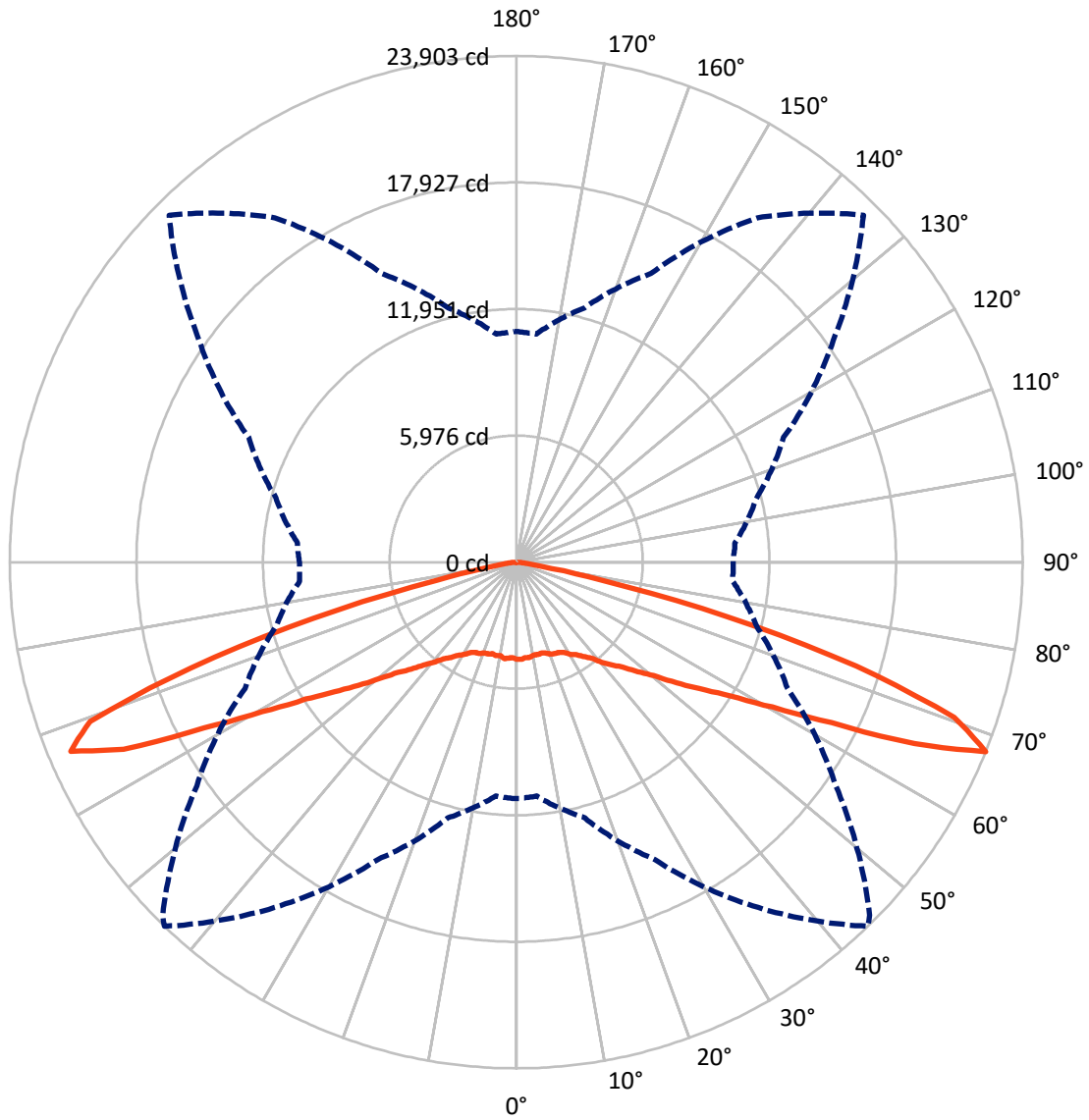
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.1 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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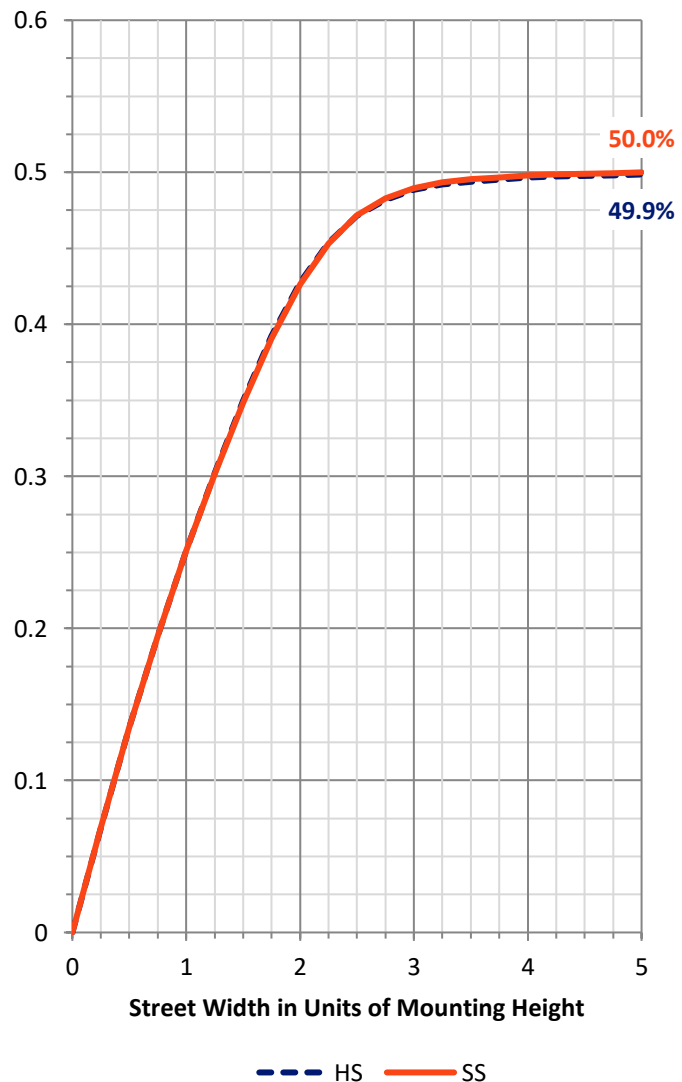
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	20959.2	0.0	20959.2
	% Fixture	49.9	0.0	49.9
Street Side	Lumens	21066.8	0.0	21066.8
	% Fixture	50.1	0.0	50.1
Total	Lumens	42026.1	0.0	42026.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	434.4	1.0
10°-20°	1269.1	3.0
20°-30°	2158.2	5.1
30°-40°	3421.9	8.1
40°-50°	5579.7	13.3
50°-60°	9529.4	22.7
60°-70°	14494.2	34.5
70°-80°	4885.4	11.6
80°-90°	253.7	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°	42026.1	100.0
0°-180°	42026.1	100.0

Coefficient of Utilization

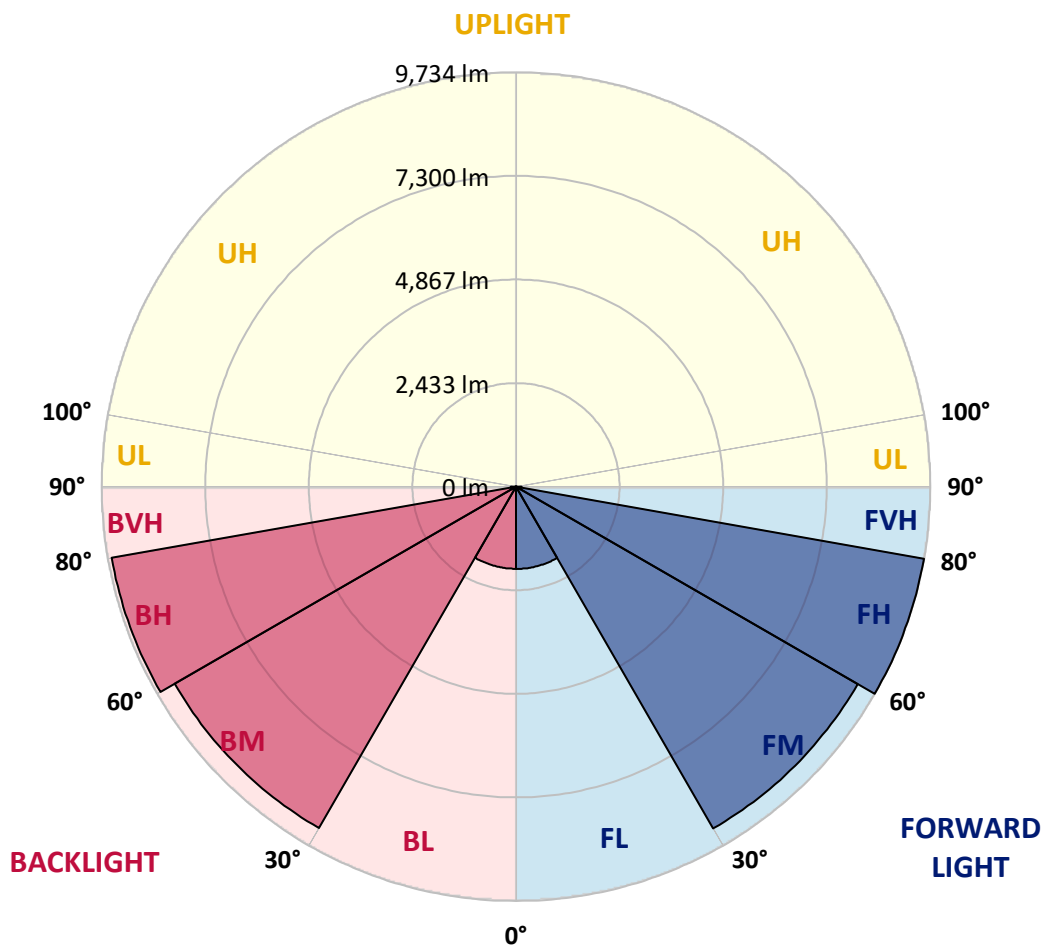


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1932.9	4.6			
FM (30°-60°)	9270.5	22.1			
FH (60°-80°)	9733.7	23.2			G4/12000
FVH (80°-90°)	129.8	0.3			G2/225
BL (0°-30°)	1928.9	4.6	B3/2500		
BM (30°-60°)	9260.5	22.0	B5		
BH (60°-80°)	9645.9	23.0	B5		G4/12000
BVH (80°-90°)	123.9	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°	4590.6	4590.6	4590.6	4590.6	4590.6	4590.6	4590.6	4590.6	4590.6	4590.6	4590.6
2.5°	4485.1	4537.9	4576.2	4571.4	4585.8	4600.2	4581.0	4609.8	4590.6	4624.2	4643.4
5°	4571.4	4557.0	4561.8	4533.1	4600.2	4523.5	4523.5	4561.8	4609.8	4552.2	4585.8
7.5°	4518.7	4509.1	4485.1	4528.3	4542.7	4542.7	4581.0	4509.1	4590.6	4609.8	4614.6
10°	4461.1	4408.3	4480.3	4523.5	4533.1	4456.3	4489.9	4509.1	4485.1	4509.1	4523.5
12.5°	4413.1	4441.9	4441.9	4441.9	4427.5	4480.3	4513.9	4509.1	4461.1	4504.3	4427.5
15°	4408.3	4393.9	4437.1	4475.5	4451.5	4461.1	4475.5	4518.7	4427.5	4446.7	4446.7
17.5°	4403.5	4422.7	4437.1	4432.3	4513.9	4513.9	4499.5	4470.7	4542.7	4504.3	4451.5
20°	4422.7	4408.3	4446.7	4461.1	4518.7	4633.8	4590.6	4566.6	4528.3	4480.3	4480.3
22.5°	4446.7	4437.1	4489.9	4552.2	4662.6	4691.4	4686.6	4657.8	4590.6	4533.1	4523.5
25°	4533.1	4446.7	4504.3	4624.2	4662.6	4720.1	4758.5	4720.1	4629.0	4643.4	4557.0
27.5°	4662.6	4648.2	4724.9	4806.5	4772.9	4825.7	4792.1	4820.9	4825.7	4753.7	4667.4
30°	4816.1	4772.9	4820.9	4979.2	4993.6	5051.1	4993.6	4916.8	4940.8	4878.4	4835.3
32.5°	5036.7	5022.3	5113.5	5219.0	5238.2	5209.4	5180.6	5223.8	5123.1	5075.1	4998.4
35°	5180.6	5243.0	5353.3	5434.9	5497.2	5468.4	5482.8	5439.7	5463.7	5362.9	5329.3
37.5°	5607.6	5583.6	5607.6	5746.7	5761.1	5746.7	5761.1	5809.0	5775.4	5689.1	5602.8
40°	6010.5	5972.1	6029.7	6188.0	6178.4	6226.4	6130.4	6183.2	6183.2	6020.1	5986.5
42.5°	6312.7	6442.2	6509.4	6638.9	6686.9	6643.7	6624.5	6634.1	6739.6	6547.7	6475.8
45°	6936.3	6931.5	7133.0	7204.9	7070.6	7061.0	7022.6	7137.8	7209.7	7099.4	7070.6
47.5°	7612.7	7646.2	7761.4	7790.1	7871.7	7723.0	7723.0	7737.4	7991.6	7732.6	7598.3
50°	8221.9	8265.0	8495.3	8720.7	8567.2	8408.9	8471.3	8548.0	8687.2	8442.5	8327.4
52.5°	8960.6	9195.6	9349.1	9469.1	9579.4	9469.1	9325.1	9411.5	9684.9	9358.7	9214.8
55°	10025.5	10212.6	10356.5	10577.1	10668.3	10519.6	10505.2	10495.6	10649.1	10303.7	10107.0
57.5°	11215.1	11138.4	11368.6	11709.2	12040.2	11896.3	11853.1	11862.7	11901.1	11411.8	11263.1
60°	12692.6	12778.9	13052.3	13349.7	13699.9	13901.4	13618.4	13455.3	13488.8	12822.1	12591.8
62.5°	13536.8	13728.7	14347.5	15369.2	16074.4	16702.8	16745.9	15685.8	14975.9	13680.7	12702.2
65°	13129.1	13100.3	14265.9	16155.9	18827.8	20655.4	20382.0	17810.8	15330.8	13273.0	11958.6
67.5°	11167.1	11090.4	12500.7	15498.7	19911.9	23902.9	23591.1	18410.4	14131.6	11742.8	10255.7
70°	7195.3	7176.1	8706.3	11814.7	17777.3	21945.8	22060.9	16721.9	11502.9	8600.8	7128.2
72.5°	2614.3	2772.6	3660.0	6351.1	12073.8	16789.1	16861.1	12380.8	6614.9	3976.6	2930.9
75°	964.2	993.0	1156.0	2062.7	5502.0	10308.5	10577.1	6005.7	2350.5	1295.2	1055.3
77.5°	556.4	561.2	618.8	767.5	1630.9	4024.6	4187.7	1822.8	911.4	690.8	638.0
80°	379.0	374.2	436.5	498.9	652.4	1141.7	1213.6	762.7	575.6	479.7	402.9
82.5°	220.7	235.0	321.4	355.0	398.1	503.7	513.3	474.9	431.7	355.0	263.8
85°	134.3	110.3	177.5	196.7	230.3	225.5	225.5	259.0	278.2	249.4	148.7
87.5°	33.6	33.6	43.2	48.0	62.4	48.0	52.8	100.7	134.3	124.7	76.8
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°	4590.6	4590.6	4590.6	4590.6	4590.6	4590.6	4590.6	4590.6	4590.6	4590.6	4590.6
2.5°	4600.2	4585.8	4595.4	4648.2	4614.6	4513.9	4537.9	4590.6	4547.4	4523.5	4518.7
5°	4581.0	4609.8	4576.2	4585.8	4619.4	4537.9	4552.2	4619.4	4590.6	4600.2	4547.4
7.5°	4585.8	4600.2	4571.4	4528.3	4528.3	4595.4	4557.0	4566.6	4523.5	4595.4	4499.5
10°	4557.0	4518.7	4485.1	4509.1	4499.5	4480.3	4465.9	4494.7	4451.5	4513.9	4446.7
12.5°	4470.7	4480.3	4470.7	4461.1	4480.3	4528.3	4451.5	4461.1	4393.9	4403.5	4437.1
15°	4437.1	4465.9	4456.3	4509.1	4533.1	4461.1	4518.7	4461.1	4408.3	4379.6	4432.3
17.5°	4451.5	4494.7	4480.3	4518.7	4475.5	4528.3	4537.9	4513.9	4451.5	4427.5	4451.5
20°	4465.9	4451.5	4470.7	4537.9	4600.2	4547.4	4547.4	4533.1	4475.5	4441.9	4441.9
22.5°	4499.5	4475.5	4504.3	4557.0	4576.2	4657.8	4585.8	4552.2	4456.3	4370.0	4451.5
25°	4566.6	4581.0	4600.2	4581.0	4686.6	4677.0	4667.4	4643.4	4494.7	4499.5	4485.1
27.5°	4696.2	4614.6	4638.6	4753.7	4768.1	4806.5	4758.5	4801.7	4643.4	4648.2	4552.2
30°	4854.4	4768.1	4844.9	4945.6	4940.8	5012.7	4988.8	4998.4	4888.0	4825.7	4696.2
32.5°	5027.1	5017.5	5065.5	5127.9	5151.9	5190.2	5185.4	5185.4	5118.3	4955.2	4979.2
35°	5219.0	5286.2	5343.7	5410.9	5420.5	5468.4	5401.3	5410.9	5343.7	5223.8	5262.2
37.5°	5598.0	5593.2	5655.5	5737.1	5746.7	5708.3	5761.1	5737.1	5645.9	5564.4	5502.0
40°	6039.3	5943.3	6000.9	6192.8	6207.2	6140.0	6135.2	6130.4	6063.3	5885.8	5847.4
42.5°	6423.0	6547.7	6538.2	6600.5	6557.3	6523.8	6643.7	6576.5	6523.8	6336.7	6303.1
45°	6917.1	6955.5	7080.2	7281.7	7075.4	7075.4	7157.0	7104.2	7075.4	6936.3	6806.8
47.5°	7531.1	7564.7	7814.1	7828.5	7694.2	7603.1	7857.3	7866.9	7747.0	7641.4	7483.1
50°	8250.6	8265.0	8490.5	8720.7	8572.0	8399.3	8658.4	8759.1	8490.5	8346.6	8149.9
52.5°	9042.1	8999.0	9186.0	9617.8	9473.8	9421.1	9699.3	9723.3	9358.7	9133.3	9186.0
55°	9953.5	9896.0	10404.4	10697.1	10605.9	10510.0	10634.7	10692.3	10399.6	10030.3	10159.8
57.5°	11133.6	11162.4	11416.6	11704.4	11853.1	11877.1	11934.7	11877.1	11579.7	11205.5	11085.6
60°	12313.6	12399.9	12894.0	13436.1	13484.0	13906.2	13829.4	13541.6	13119.5	12587.0	12611.0
62.5°	12750.1	12678.2	13474.5	14798.4	15925.7	16698.0	16357.4	15335.6	14357.1	13388.1	13460.1
65°	11872.3	12049.8	13133.9	15206.1	17652.5	20708.2	18894.9	16069.6	14093.2	12841.3	12702.2
67.5°	10231.8	10366.1	11742.8	13930.2	18271.3	23173.8	19854.3	15033.4	12428.7	10807.4	10893.7
70°	7128.2	7195.3	8543.3	11411.8	16568.4	21869.0	17911.6	11546.1	8581.6	6840.4	6936.3
72.5°	2868.5	3031.6	3919.1	6873.9	12232.1	16616.4	12059.4	6058.5	3559.3	2647.9	2403.2
75°	1060.1	1064.9	1252.0	2364.9	5809.0	10442.8	5439.7	1947.5	1136.9	930.6	887.4
77.5°	614.0	609.2	652.4	853.8	1683.7	4077.4	1544.6	762.7	618.8	556.4	532.5
80°	383.8	379.0	446.1	566.0	738.7	1117.7	652.4	474.9	417.3	359.8	359.8
82.5°	244.6	249.4	350.2	417.3	450.9	494.1	379.0	335.8	311.8	206.3	201.5
85°	158.3	143.9	244.6	278.2	249.4	220.7	211.1	177.5	163.1	100.7	110.3
87.5°	72.0	76.8	124.7	139.1	91.1	52.8	52.8	38.4	38.4	24.0	24.0
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)