

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: P479422

Luminaire Tested: **IFLD-S-SA6D-760-U-5MQ**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P479422  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA6D-760-U-5MQ  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5MQ  
distribution lens  
Light Source: (96) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

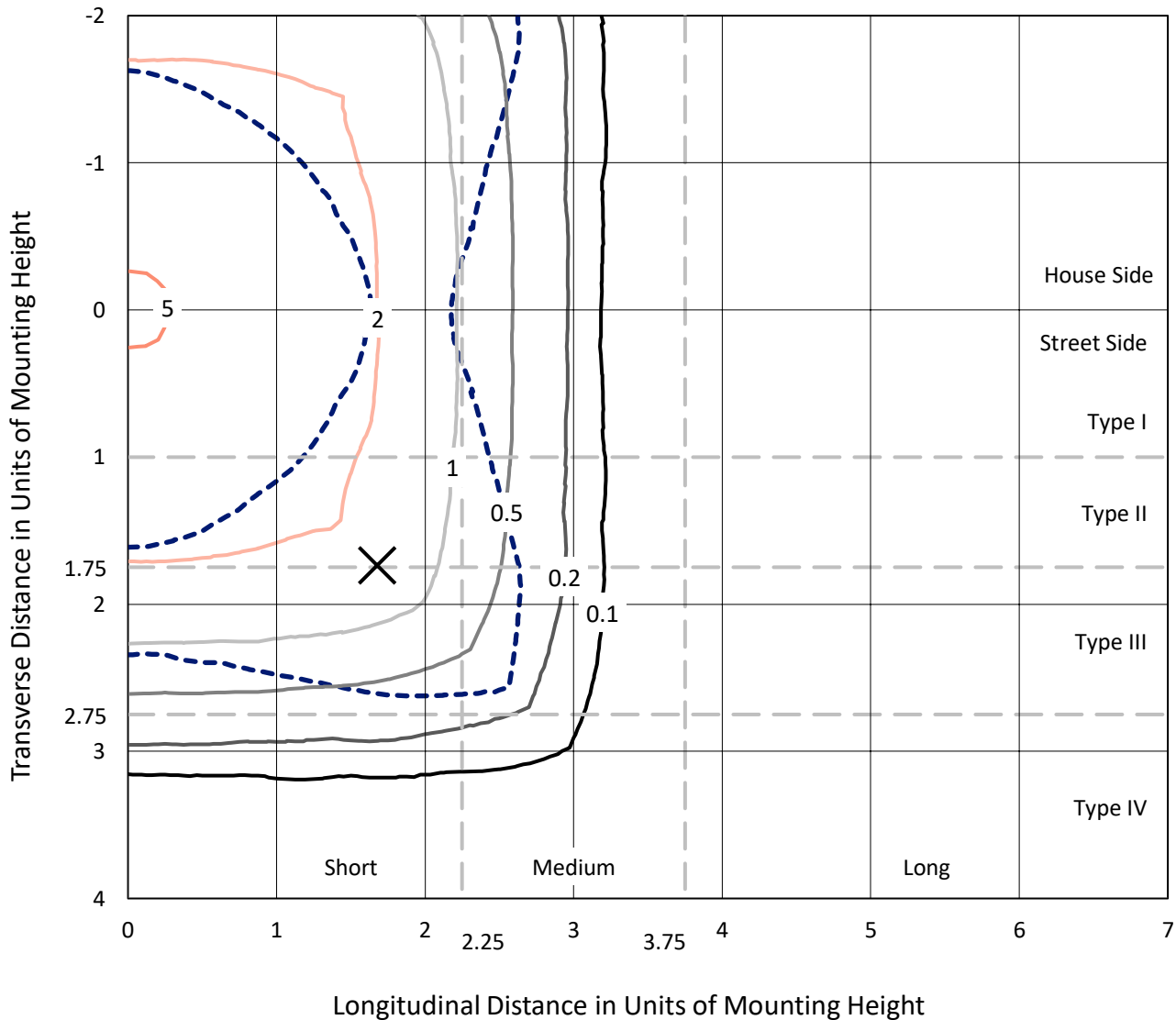
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 47208.9 lumens  
Efficiency: N/A  
Efficacy: 128.2 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 (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

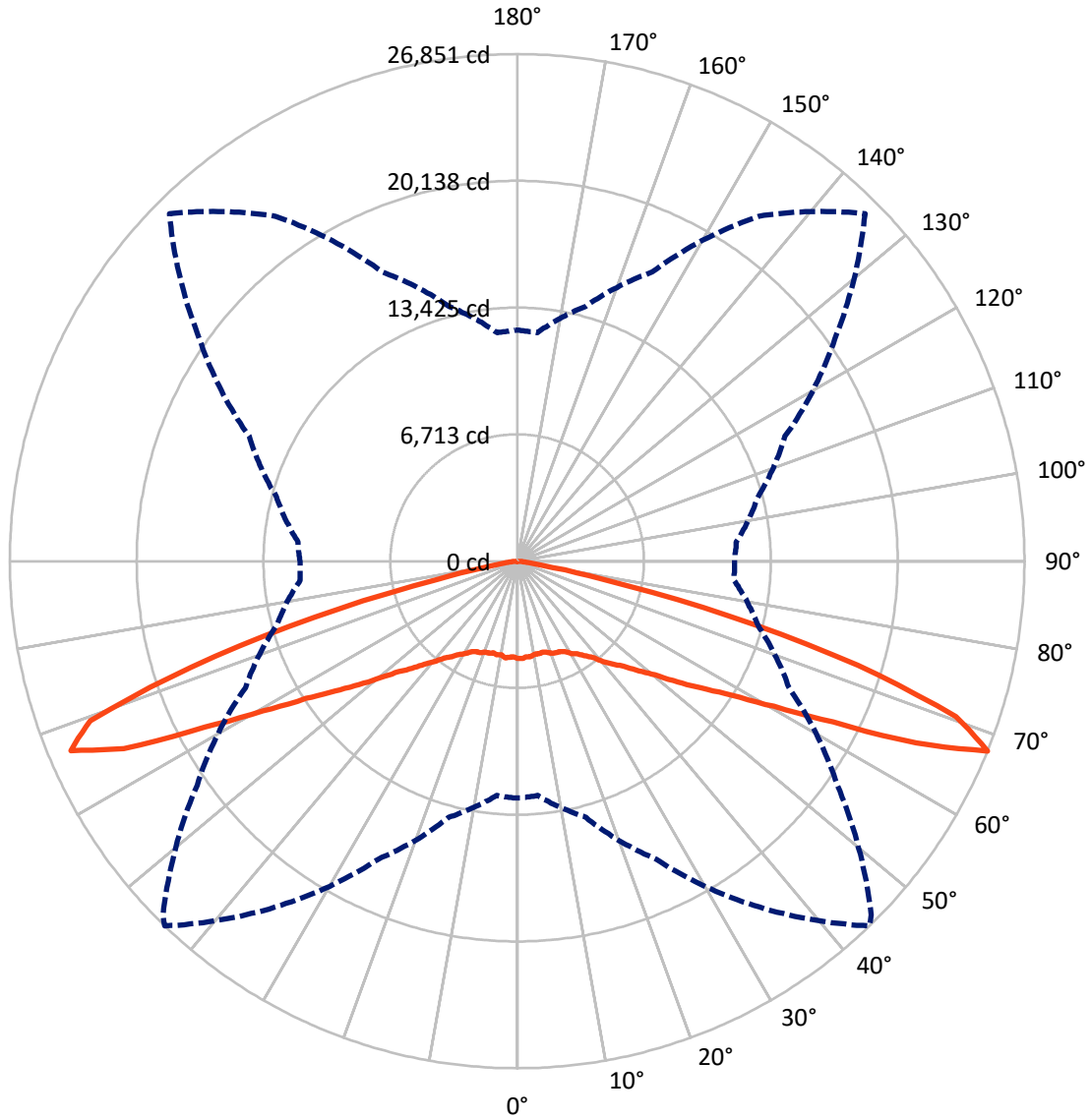
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.7 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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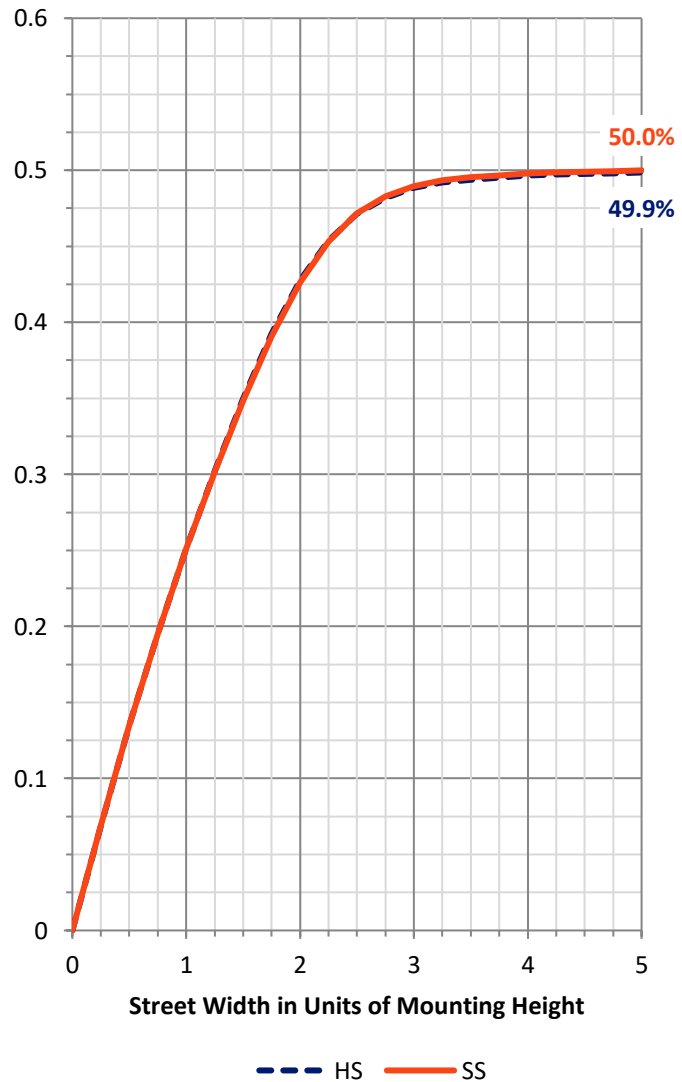
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	23544.0	0.0	23544.0
	% Fixture	49.9	0.0	49.9
<b>Street Side</b>	Lumens	23664.9	0.0	23664.9
	% Fixture	50.1	0.0	50.1
<b>Total</b>	Lumens	47208.9	0.0	47208.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	488.0	1.0
10°-20°	1425.6	3.0
20°-30°	2424.4	5.1
30°-40°	3843.9	8.1
40°-50°	6267.9	13.3
50°-60°	10704.6	22.7
60°-70°	16281.6	34.5
70°-80°	5487.9	11.6
80°-90°	284.9	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°	47208.9	100.0
0°-180°	47208.9	100.0

**Coefficient of Utilization**

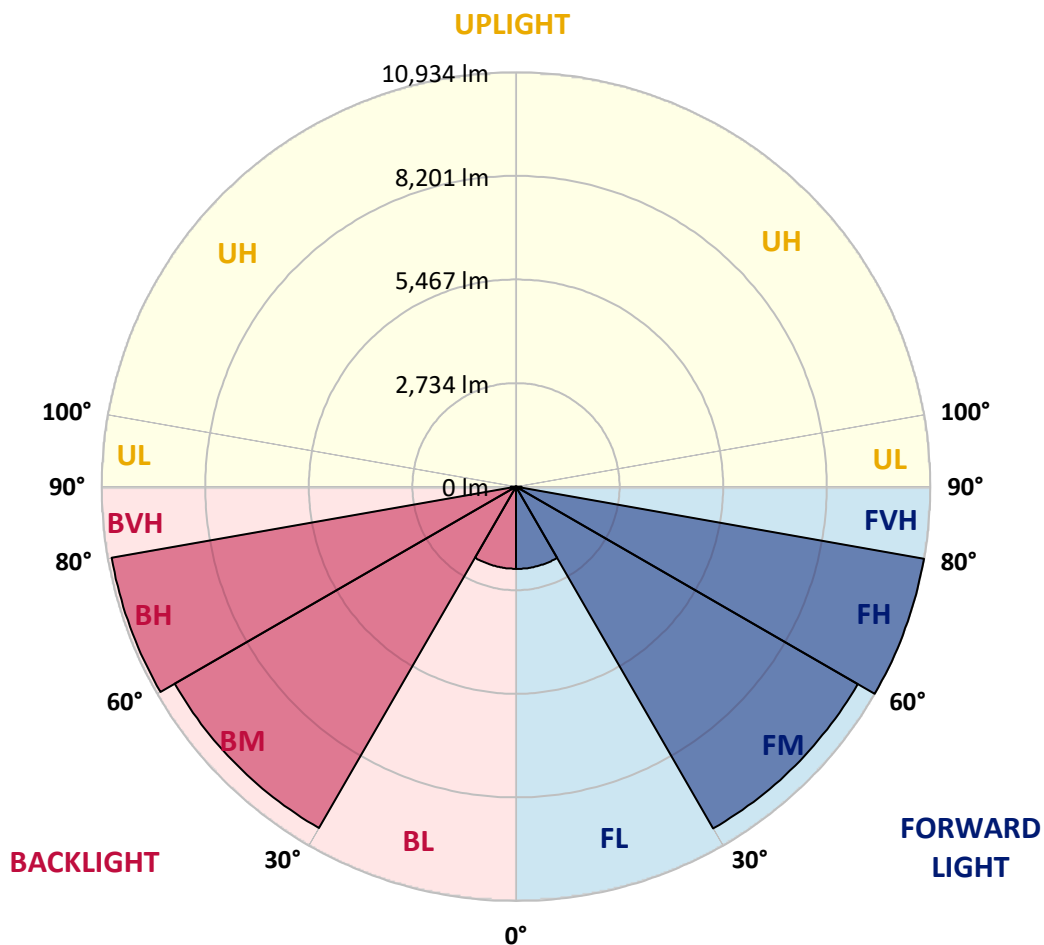


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2171.2	4.6			
FM (30°-60°)	10413.8	22.1			
FH (60°-80°)	10934.1	23.2			G4/12000
FVH (80°-90°)	145.8	0.3			G2/225
BL (0°-30°)	2166.8	4.6	B3/2500		
BM (30°-60°)	10402.6	22.0	B5		
BH (60°-80°)	10835.5	23.0	B5		G4/12000
BVH (80°-90°)	139.2	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°	5156.8	5156.8	5156.8	5156.8	5156.8	5156.8	5156.8	5156.8	5156.8	5156.8	5156.8
2.5°	5038.2	5097.5	5140.6	5135.2	5151.4	5167.5	5146.0	5178.3	5156.8	5194.5	5216.0
5°	5135.2	5119.0	5124.4	5092.1	5167.5	5081.3	5081.3	5124.4	5178.3	5113.7	5151.4
7.5°	5075.9	5065.2	5038.2	5086.7	5102.9	5102.9	5146.0	5065.2	5156.8	5178.3	5183.7
10°	5011.3	4952.0	5032.8	5081.3	5092.1	5005.9	5043.6	5065.2	5038.2	5065.2	5081.3
12.5°	4957.4	4989.7	4989.7	4989.7	4973.6	5032.8	5070.5	5065.2	5011.3	5059.8	4973.6
15°	4952.0	4935.8	4984.3	5027.4	5000.5	5011.3	5027.4	5075.9	4973.6	4995.1	4995.1
17.5°	4946.6	4968.2	4984.3	4978.9	5070.5	5070.5	5054.4	5022.0	5102.9	5059.8	5000.5
20°	4968.2	4952.0	4995.1	5011.3	5075.9	5205.3	5156.8	5129.8	5086.7	5032.8	5032.8
22.5°	4995.1	4984.3	5043.6	5113.7	5237.6	5269.9	5264.5	5232.2	5156.8	5092.1	5081.3
25°	5092.1	4995.1	5059.8	5194.5	5237.6	5302.2	5345.4	5302.2	5199.9	5216.0	5119.0
27.5°	5237.6	5221.4	5307.6	5399.2	5361.5	5420.8	5383.1	5415.4	5420.8	5340.0	5243.0
30°	5410.0	5361.5	5415.4	5593.2	5609.4	5674.1	5609.4	5523.2	5550.1	5480.1	5431.6
32.5°	5657.9	5641.7	5744.1	5862.6	5884.2	5851.9	5819.5	5868.0	5754.9	5701.0	5614.8
35°	5819.5	5889.6	6013.5	6105.1	6175.2	6142.8	6159.0	6110.5	6137.5	6024.3	5986.6
37.5°	6299.1	6272.2	6299.1	6455.4	6471.5	6455.4	6471.5	6525.4	6487.7	6390.7	6293.7
40°	6751.7	6708.6	6773.3	6951.1	6940.3	6994.2	6886.5	6945.7	6945.7	6762.5	6724.8
42.5°	7091.2	7236.7	7312.1	7457.6	7511.5	7463.0	7441.5	7452.2	7570.8	7355.3	7274.4
45°	7791.7	7786.3	8012.6	8093.5	7942.6	7931.8	7888.7	8018.0	8098.9	7974.9	7942.6
47.5°	8551.5	8589.2	8718.5	8750.9	8842.5	8675.4	8675.4	8691.6	8977.2	8686.2	8535.3
50°	9235.8	9284.3	9543.0	9796.2	9623.8	9446.0	9516.0	9602.2	9758.5	9483.7	9354.4
52.5°	10065.6	10329.7	10502.1	10636.8	10760.8	10636.8	10475.2	10572.2	10879.3	10512.9	10351.2
55°	11261.9	11472.0	11633.7	11881.6	11983.9	11816.9	11800.7	11790.0	11962.4	11574.4	11353.5
57.5°	12598.2	12512.0	12770.7	13153.2	13525.0	13363.4	13314.9	13325.7	13368.8	12819.2	12652.1
60°	14257.9	14354.9	14662.0	14996.1	15389.4	15615.8	15297.8	15114.6	15152.4	14403.4	14144.7
62.5°	15206.2	15421.8	16116.9	17264.6	18056.7	18762.6	18811.1	17620.3	16822.8	15367.9	14268.6
65°	14748.2	14715.9	16025.3	18148.3	21149.7	23202.7	22895.6	20007.4	17221.5	14909.9	13433.4
67.5°	12544.3	12458.1	14042.3	17410.1	22367.5	26850.7	26500.5	20680.9	15874.4	13191.0	11520.5
70°	8082.7	8061.1	9780.1	13271.8	19969.6	24652.2	24781.5	18784.2	12921.5	9661.5	8007.3
72.5°	2936.7	3114.5	4111.4	7134.3	13562.8	18859.6	18940.4	13907.6	7430.7	4467.0	3292.4
75°	1083.1	1115.4	1298.6	2317.0	6180.6	11579.8	11881.6	6746.4	2640.3	1454.9	1185.5
77.5°	625.1	630.5	695.1	862.2	1832.1	4520.9	4704.1	2047.6	1023.8	775.9	716.7
80°	425.7	420.3	490.4	560.4	732.8	1282.5	1363.3	856.8	646.6	538.8	452.6
82.5°	247.9	264.0	361.0	398.7	447.2	565.8	576.6	533.5	485.0	398.7	296.4
85°	150.9	123.9	199.4	220.9	258.6	253.3	253.3	291.0	312.5	280.2	167.0
87.5°	37.7	37.7	48.5	53.9	70.1	53.9	59.3	113.2	150.9	140.1	86.2
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°	5156.8	5156.8	5156.8	5156.8	5156.8	5156.8	5156.8	5156.8	5156.8	5156.8	5156.8
2.5°	5167.5	5151.4	5162.1	5221.4	5183.7	5070.5	5097.5	5156.8	5108.3	5081.3	5075.9
5°	5146.0	5178.3	5140.6	5151.4	5189.1	5097.5	5113.7	5189.1	5156.8	5167.5	5108.3
7.5°	5151.4	5167.5	5135.2	5086.7	5086.7	5162.1	5119.0	5129.8	5081.3	5162.1	5054.4
10°	5119.0	5075.9	5038.2	5065.2	5054.4	5032.8	5016.7	5049.0	5000.5	5070.5	4995.1
12.5°	5022.0	5032.8	5022.0	5011.3	5032.8	5086.7	5000.5	5011.3	4935.8	4946.6	4984.3
15°	4984.3	5016.7	5005.9	5065.2	5092.1	5011.3	5075.9	5011.3	4952.0	4919.7	4978.9
17.5°	5000.5	5049.0	5032.8	5075.9	5027.4	5086.7	5097.5	5070.5	5000.5	4973.6	5000.5
20°	5016.7	5000.5	5022.0	5097.5	5167.5	5108.3	5108.3	5092.1	5027.4	4989.7	4989.7
22.5°	5054.4	5027.4	5059.8	5119.0	5140.6	5232.2	5151.4	5113.7	5005.9	4908.9	5000.5
25°	5129.8	5146.0	5167.5	5146.0	5264.5	5253.8	5243.0	5216.0	5049.0	5054.4	5038.2
27.5°	5275.3	5183.7	5210.6	5340.0	5356.1	5399.2	5345.4	5393.9	5216.0	5221.4	5113.7
30°	5453.1	5356.1	5442.3	5555.5	5550.1	5630.9	5604.0	5614.8	5490.8	5420.8	5275.3
32.5°	5647.1	5636.3	5690.2	5760.3	5787.2	5830.3	5824.9	5824.9	5749.5	5566.3	5593.2
35°	5862.6	5938.1	6002.7	6078.2	6089.0	6142.8	6067.4	6078.2	6002.7	5868.0	5911.1
37.5°	6288.3	6282.9	6353.0	6444.6	6455.4	6412.3	6471.5	6444.6	6342.2	6250.6	6180.6
40°	6784.1	6676.3	6741.0	6956.5	6972.7	6897.2	6891.8	6886.5	6811.0	6611.6	6568.5
42.5°	7215.2	7355.3	7344.5	7414.5	7366.0	7328.3	7463.0	7387.6	7328.3	7118.2	7080.4
45°	7770.2	7813.3	7953.4	8179.7	7948.0	7948.0	8039.6	7980.3	7948.0	7791.7	7646.2
47.5°	8459.9	8497.6	8777.8	8794.0	8643.1	8540.7	8826.3	8837.1	8702.4	8583.8	8406.0
50°	9268.2	9284.3	9537.6	9796.2	9629.2	9435.2	9726.2	9839.3	9537.6	9375.9	9155.0
52.5°	10157.3	10108.8	10318.9	10803.9	10642.2	10582.9	10895.5	10922.4	10512.9	10259.6	10318.9
55°	11181.1	11116.4	11687.6	12016.3	11913.9	11806.1	11946.2	12010.9	11682.2	11267.3	11412.8
57.5°	12506.6	12539.0	12824.5	13147.8	13314.9	13341.8	13406.5	13341.8	13007.7	12587.4	12452.7
60°	13832.2	13929.2	14484.2	15093.1	15147.0	15621.2	15534.9	15211.6	14737.4	14139.3	14166.3
62.5°	14322.5	14241.7	15136.2	16623.4	17889.7	18757.2	18374.7	17226.9	16127.7	15039.2	15120.0
65°	13336.4	13535.8	14753.6	17081.4	19829.5	23262.0	21225.2	18051.3	15831.3	14424.9	14268.6
67.5°	11493.6	11644.5	13191.0	15648.1	20524.7	26031.7	22302.8	16887.4	13961.5	12140.2	12237.2
70°	8007.3	8082.7	9596.9	12819.2	18611.7	24566.0	20120.5	12970.0	9640.0	7683.9	7791.7
72.5°	3222.3	3405.5	4402.4	7721.7	13740.6	18665.6	13546.6	6805.6	3998.2	2974.4	2699.6
75°	1190.9	1196.2	1406.4	2656.5	6525.4	11730.7	6110.5	2187.7	1277.1	1045.4	996.9
77.5°	689.7	684.3	732.8	959.1	1891.4	4580.2	1735.1	856.8	695.1	625.1	598.1
80°	431.1	425.7	501.1	635.8	829.8	1255.5	732.8	533.5	468.8	404.1	404.1
82.5°	274.8	280.2	393.4	468.8	506.5	555.0	425.7	377.2	350.3	231.7	226.3
85°	177.8	161.7	274.8	312.5	280.2	247.9	237.1	199.4	183.2	113.2	123.9
87.5°	80.8	86.2	140.1	156.3	102.4	59.3	59.3	43.1	43.1	26.9	26.9
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)