

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: P481226

Luminaire Tested: **IFLD-L-SA7D-730-U-RW**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481226
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7D-730-U-RW
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ RW distribution lens
Light Source: (112) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

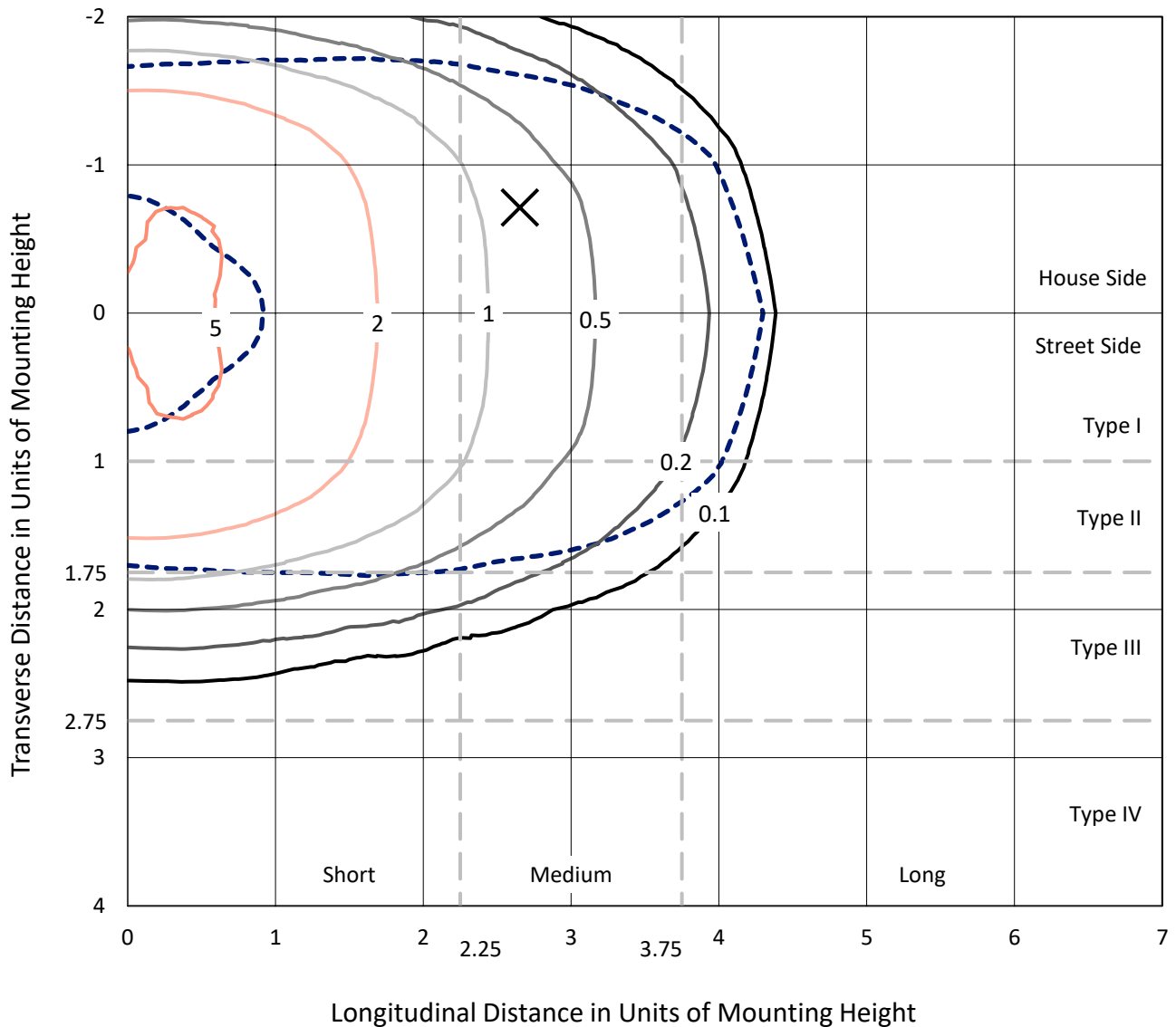
Lumens per Lamp: N/A
Luminaire Lumens: 45752 lumens
Efficiency: N/A
Efficacy: 108.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B5 - U0 - G5

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

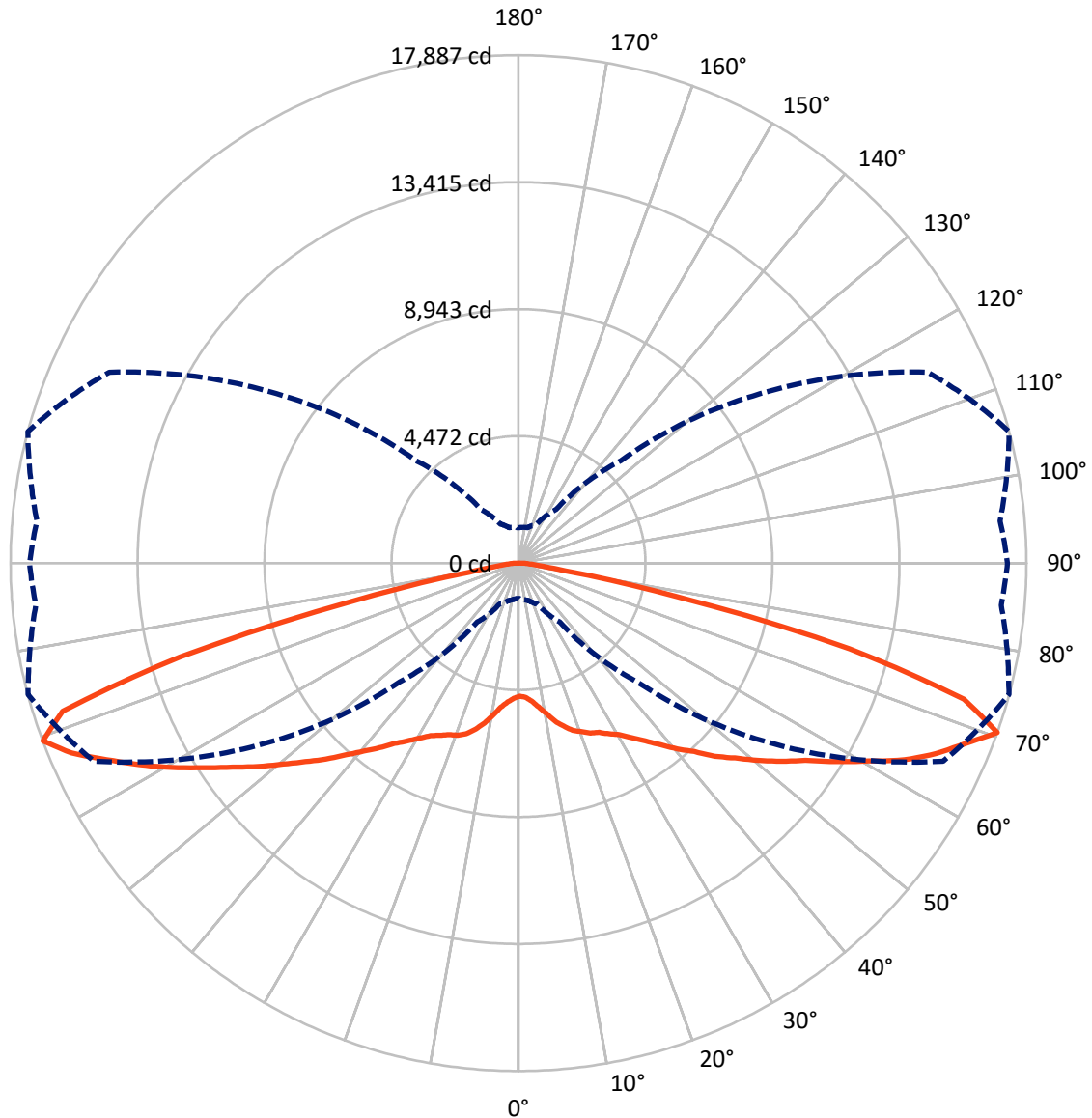
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 105-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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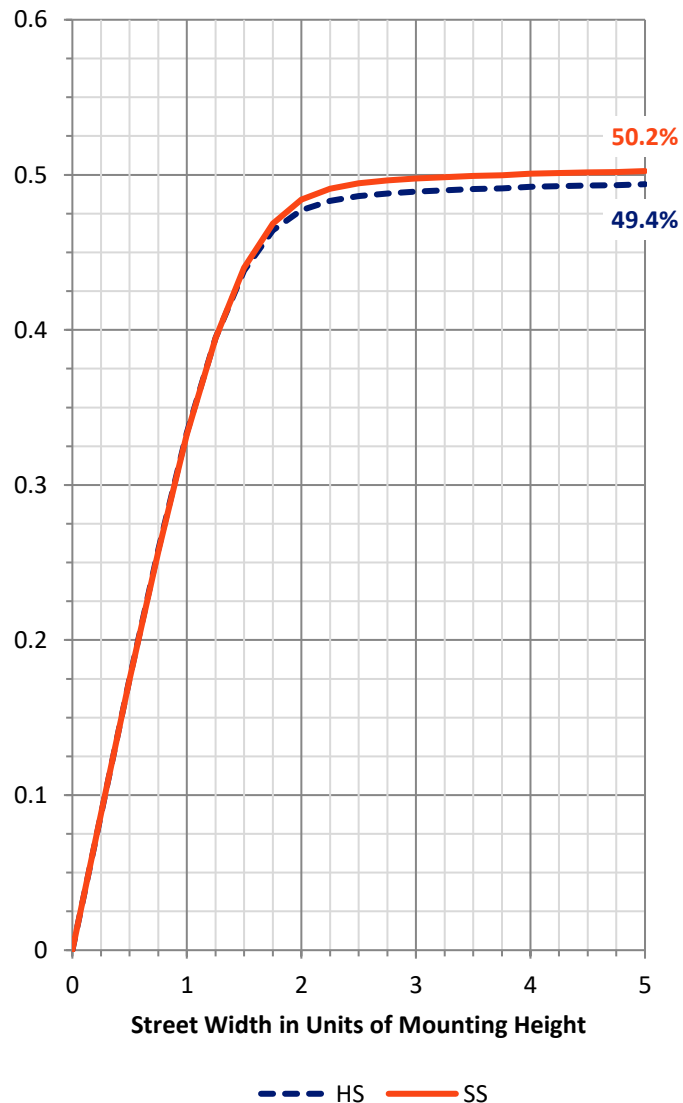
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	22713.2	0.0	22713.2
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	23038.7	0.0	23038.7
	% Fixture	50.4	0.0	50.4
Total	Lumens	45752.0	0.0	45752.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	466.3	1.0
10°-20°	1587.7	3.5
20°-30°	3074.4	6.7
30°-40°	5200.1	11.4
40°-50°	8295.7	18.1
50°-60°	11355.0	24.8
60°-70°	10702.9	23.4
70°-80°	4714.9	10.3
80°-90°	354.8	0.8
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°	45752.0	100.0
0°-180°	45752.0	100.0

Coefficient of Utilization

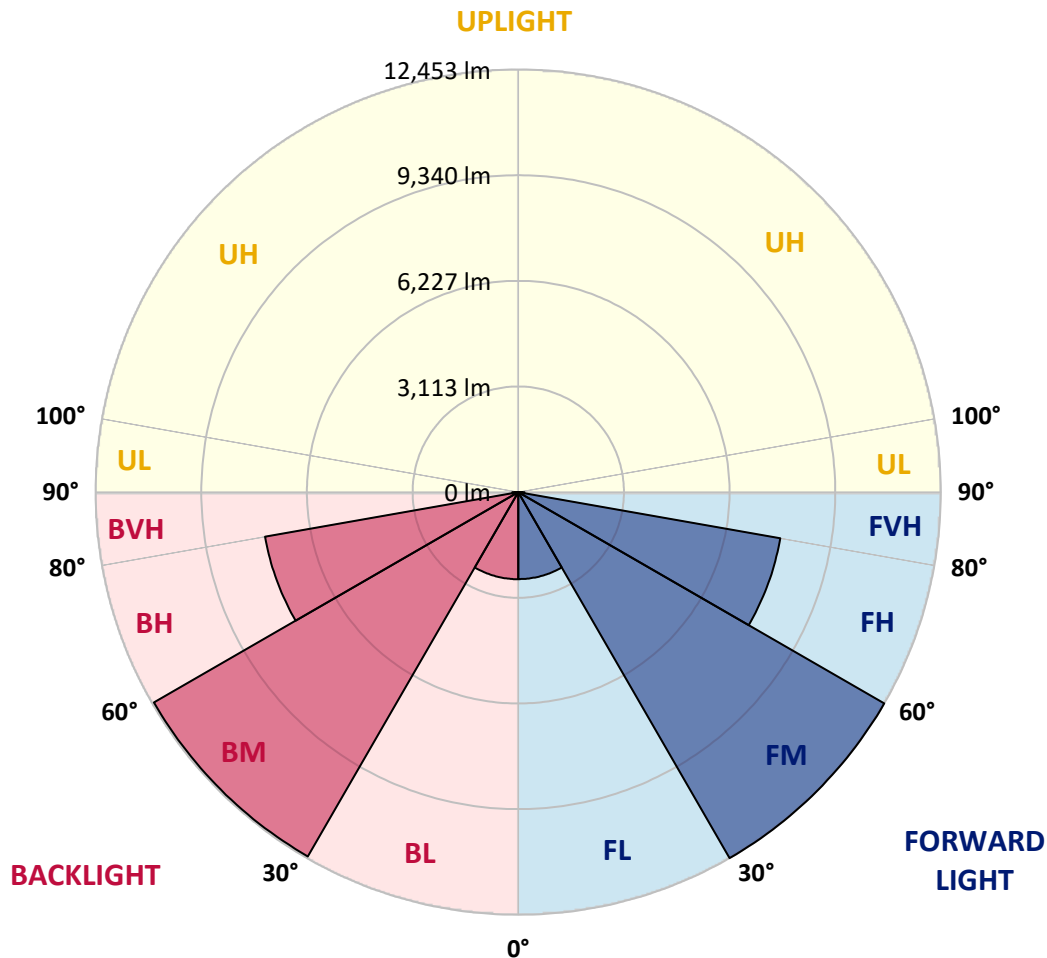


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2562.8	5.6			
FM (30°-60°)	12453.3	27.2			
FH (60°-80°)	7841.4	17.1			G4/12000
FVH (80°-90°)	181.2	0.4			G2/225
BL (0°-30°)	2565.6	5.6	B4/5000		
BM (30°-60°)	12397.6	27.1	B5		
BH (60°-80°)	7576.4	16.6	B5		G5
BVH (80°-90°)	173.5	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4685.0	4685.0	4685.0	4685.0	4685.0	4685.0	4685.0	4685.0	4685.0	4685.0	4685.0
2.5°	4655.4	4655.4	4650.4	4675.1	4699.8	4709.6	4729.3	4734.3	4763.9	4739.2	4788.5
5°	4640.6	4635.6	4675.1	4734.3	4734.3	4798.4	4837.8	4892.1	4906.9	4936.5	4946.3
7.5°	4744.1	4734.3	4714.5	4778.7	4832.9	4931.5	4985.8	5079.5	5114.0	5153.5	5197.8
10°	4808.2	4808.2	4788.5	4901.9	4951.3	5084.4	5202.8	5296.5	5429.6	5474.0	5478.9
12.5°	4818.1	4832.9	4892.1	5040.0	5178.1	5350.7	5439.5	5617.0	5750.2	5834.0	5863.6
15°	4966.1	4936.5	5000.6	5202.8	5405.0	5557.8	5715.6	5843.9	6036.2	6144.7	6213.7
17.5°	5099.2	5069.6	5188.0	5429.6	5636.7	5873.5	6011.5	6149.6	6287.7	6386.3	6391.3
20°	5311.3	5335.9	5439.5	5700.9	5972.1	6179.2	6337.0	6361.7	6430.7	6573.7	6549.1
22.5°	5572.6	5552.9	5769.9	6055.9	6351.8	6524.4	6613.2	6549.1	6514.6	6667.4	6702.0
25°	5834.0	5893.2	6090.4	6356.7	6711.8	6943.6	6968.3	6790.7	6662.5	6716.8	6702.0
27.5°	6233.5	6243.3	6450.4	6766.1	7126.1	7328.3	7313.5	7062.0	6815.4	6820.3	6830.2
30°	6746.3	6697.0	6923.9	7209.9	7565.0	7747.4	7772.1	7412.1	7081.7	6983.1	7007.7
32.5°	7239.5	7298.7	7495.9	7821.4	8082.8	8186.3	8132.1	7811.6	7382.5	7249.4	7264.2
35°	7870.7	7860.9	8132.1	8408.3	8605.5	8625.3	8580.9	8112.4	7708.0	7535.4	7466.3
37.5°	8546.3	8635.1	8812.7	9039.5	9246.6	9256.5	9014.8	8640.0	8142.0	7855.9	7939.8
40°	9300.9	9399.5	9527.7	9858.1	10011.0	9853.2	9606.6	9098.7	8580.9	8329.4	8368.8
42.5°	9966.6	10011.0	10272.4	10662.0	10736.0	10666.9	10302.0	9685.5	9083.9	8807.7	8827.4
45°	10578.1	10637.3	10977.6	11327.7	11500.3	11382.0	10957.9	10371.0	9670.7	9434.0	9340.3
47.5°	11140.3	11258.7	11589.1	11949.1	12215.4	12225.3	11702.5	10992.4	10252.7	9942.0	9937.0
50°	11520.1	11692.7	12018.1	12427.5	12817.1	12969.9	12447.2	11682.8	10888.8	10558.4	10523.9
52.5°	11727.2	11904.7	12230.2	12866.4	13300.3	13537.1	13290.5	12328.8	11633.5	11288.3	11234.0
55°	11475.7	11594.0	12126.6	13019.3	13689.9	14079.5	13916.8	13221.4	12373.2	12092.1	12141.4
57.5°	10405.5	10652.1	11308.0	12422.5	13680.1	14636.8	14622.0	14064.7	13226.4	12960.1	12969.9
60°	8566.1	8773.2	9582.0	11140.3	13127.7	14863.6	15386.4	14883.4	14183.1	13872.4	13862.5
62.5°	6046.1	6307.4	7244.4	8945.8	11500.3	14548.0	16264.2	15914.1	15120.1	14893.2	14977.1
65°	3383.0	3540.8	4408.8	5947.4	8763.3	12812.1	16422.0	16984.2	16071.9	15726.7	15741.5
67.5°	1809.9	1869.1	2273.4	3121.7	5360.6	9877.9	14829.1	17600.6	17102.6	16505.8	16412.1
70°	1242.7	1262.5	1366.0	1597.8	2534.8	5908.0	11184.7	16500.9	17876.8	17063.1	17220.9
72.5°	1050.4	1040.6	1065.2	1089.9	1326.6	2643.3	6563.9	12698.7	16875.7	16570.0	16510.8
75°	912.3	907.4	917.3	892.6	922.2	1163.8	2904.7	7915.1	12353.5	13788.6	14010.5
77.5°	754.5	759.5	764.4	739.7	729.9	769.3	1168.8	3476.7	6080.6	6711.8	7239.5
80°	572.1	581.9	621.4	596.7	557.3	562.2	690.4	1163.8	1745.8	1583.0	1632.3
82.5°	389.6	394.5	478.4	448.8	419.2	379.7	443.8	601.6	680.6	517.8	453.7
85°	276.2	271.2	310.7	286.0	266.3	192.3	266.3	340.3	409.3	256.4	231.8
87.5°	64.1	64.1	128.2	103.6	98.6	78.9	103.6	133.2	177.5	113.4	103.6
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4685.0	4685.0	4685.0	4685.0	4685.0	4685.0	4685.0	4685.0	4685.0	4685.0
2.5°	4773.7	4729.3	4729.3	4719.5	4680.0	4670.2	4635.6	4645.5	4620.8	4596.2
5°	4941.4	4882.2	4882.2	4798.4	4719.5	4709.6	4670.2	4670.2	4630.7	4640.6
7.5°	5173.2	5118.9	5030.2	4956.2	4847.7	4803.3	4729.3	4719.5	4709.6	4689.9
10°	5449.3	5380.3	5291.5	5138.7	5049.9	4966.1	4892.1	4788.5	4763.9	4768.8
12.5°	5824.1	5715.6	5523.3	5390.2	5276.7	5168.2	5059.8	4906.9	4872.4	4887.2
15°	6090.4	5952.4	5760.0	5710.7	5557.8	5424.7	5247.2	5074.5	5015.4	5000.6
17.5°	6307.4	6194.0	6080.6	6006.6	5883.3	5720.6	5474.0	5276.7	5143.6	5128.8
20°	6485.0	6337.0	6312.4	6356.7	6203.9	6095.4	5794.6	5552.9	5375.4	5301.4
22.5°	6593.5	6499.8	6568.8	6608.3	6598.4	6415.9	6105.2	5824.1	5602.2	5533.2
25°	6711.8	6603.3	6849.9	6983.1	7017.6	6716.8	6475.1	6105.2	5888.3	5843.9
27.5°	6771.0	6810.4	7096.5	7377.6	7352.9	7121.1	6795.7	6465.2	6292.6	6213.7
30°	6943.6	7007.7	7441.7	7757.3	7762.2	7535.4	7288.8	6914.0	6721.7	6687.2
32.5°	7254.3	7333.2	7796.8	8132.1	8191.3	8018.7	7772.1	7540.3	7343.1	7264.2
35°	7491.0	7693.2	8215.9	8521.7	8679.5	8575.9	8437.9	8196.2	7989.1	7920.0
37.5°	7831.3	8112.4	8615.4	9029.6	9207.2	9197.3	9093.7	8832.4	8659.8	8600.6
40°	8319.5	8600.6	9059.2	9606.6	9937.0	9922.2	9863.1	9660.9	9404.4	9374.8
42.5°	8837.3	9069.1	9665.8	10292.1	10765.5	10716.2	10558.4	10321.7	10144.2	10104.7
45°	9340.3	9700.3	10252.7	11056.5	11411.6	11534.9	11347.5	10943.1	10740.9	10716.2
47.5°	9971.6	10257.6	10948.0	11668.0	12195.7	12215.4	11894.9	11520.1	11150.2	11229.1
50°	10533.8	10913.5	11613.8	12402.8	13034.0	12807.2	12397.9	11929.4	11663.1	11559.5
52.5°	11135.4	11599.0	12412.7	13216.5	13566.7	13339.8	12674.0	12151.3	11746.9	11702.5
55°	12013.2	12254.9	13320.1	13936.5	14049.9	13571.6	12590.2	11850.5	11327.7	11199.5
57.5°	12905.8	13186.9	14119.0	14651.6	14533.2	13443.4	12047.7	10903.6	10218.1	10035.7
60°	13808.3	14153.5	14937.6	15425.8	14814.3	12560.6	10514.0	9039.5	8240.6	8077.9
62.5°	14814.3	15263.1	15963.4	16136.0	13980.9	10814.9	8344.2	6524.4	5715.6	5444.4
65°	15706.9	16165.6	17028.6	15988.0	12210.5	8068.0	5395.1	3728.2	3131.5	2914.5
67.5°	16441.7	16959.5	17383.7	14148.6	8940.9	4724.4	2811.0	1962.8	1740.8	1661.9
70°	17023.7	17886.7	15904.2	10400.6	5109.1	2303.0	1518.9	1292.1	1262.5	1242.7
72.5°	16515.7	16402.3	11875.1	6001.7	2238.9	1267.4	1099.7	1065.2	1060.3	1065.2
75°	13507.5	12047.7	7101.4	2608.8	1124.4	917.3	912.3	897.5	922.2	922.2
77.5°	6554.0	5730.4	2968.8	1119.5	739.7	720.0	744.7	744.7	744.7	744.7
80°	1518.9	1681.7	1060.3	680.6	537.5	537.5	591.8	596.7	572.1	562.2
82.5°	517.8	690.4	581.9	429.0	355.1	399.5	448.8	458.6	379.7	384.7
85°	256.4	404.4	315.6	246.6	182.5	246.6	291.0	305.8	261.4	251.5
87.5°	118.4	177.5	118.4	83.8	64.1	88.8	83.8	69.0	39.5	39.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)