

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: P478928

Luminaire Tested: **IFLD-L-SA8B-735-U-5NQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478928
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8B-735-U-5NQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5NQ distribution lens
Light Source: (128) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

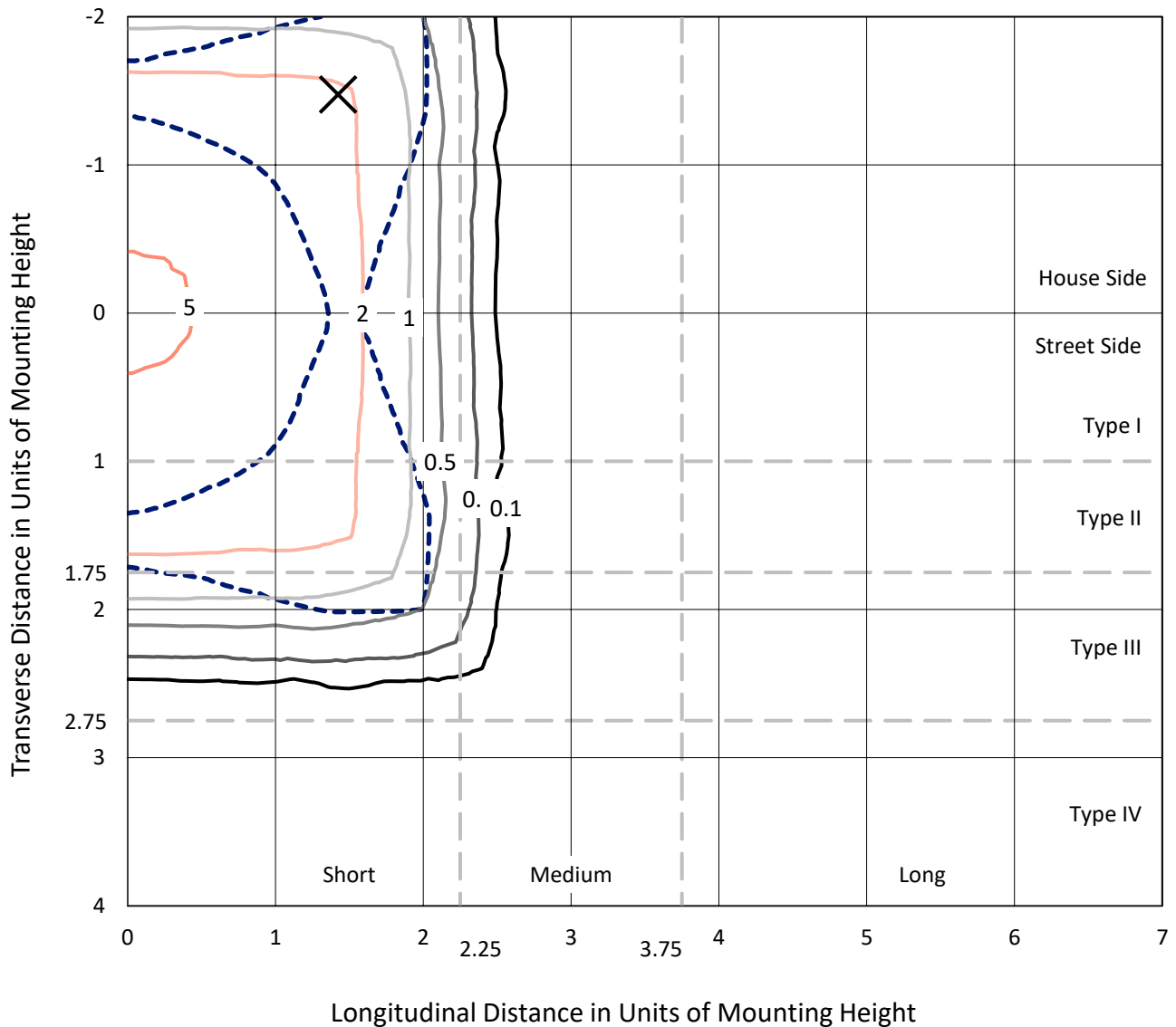
Lumens per Lamp: N/A
Luminaire Lumens: 40035.7 lumens
Efficiency: N/A
Efficacy: 125.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

Input Watts (W): 320
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

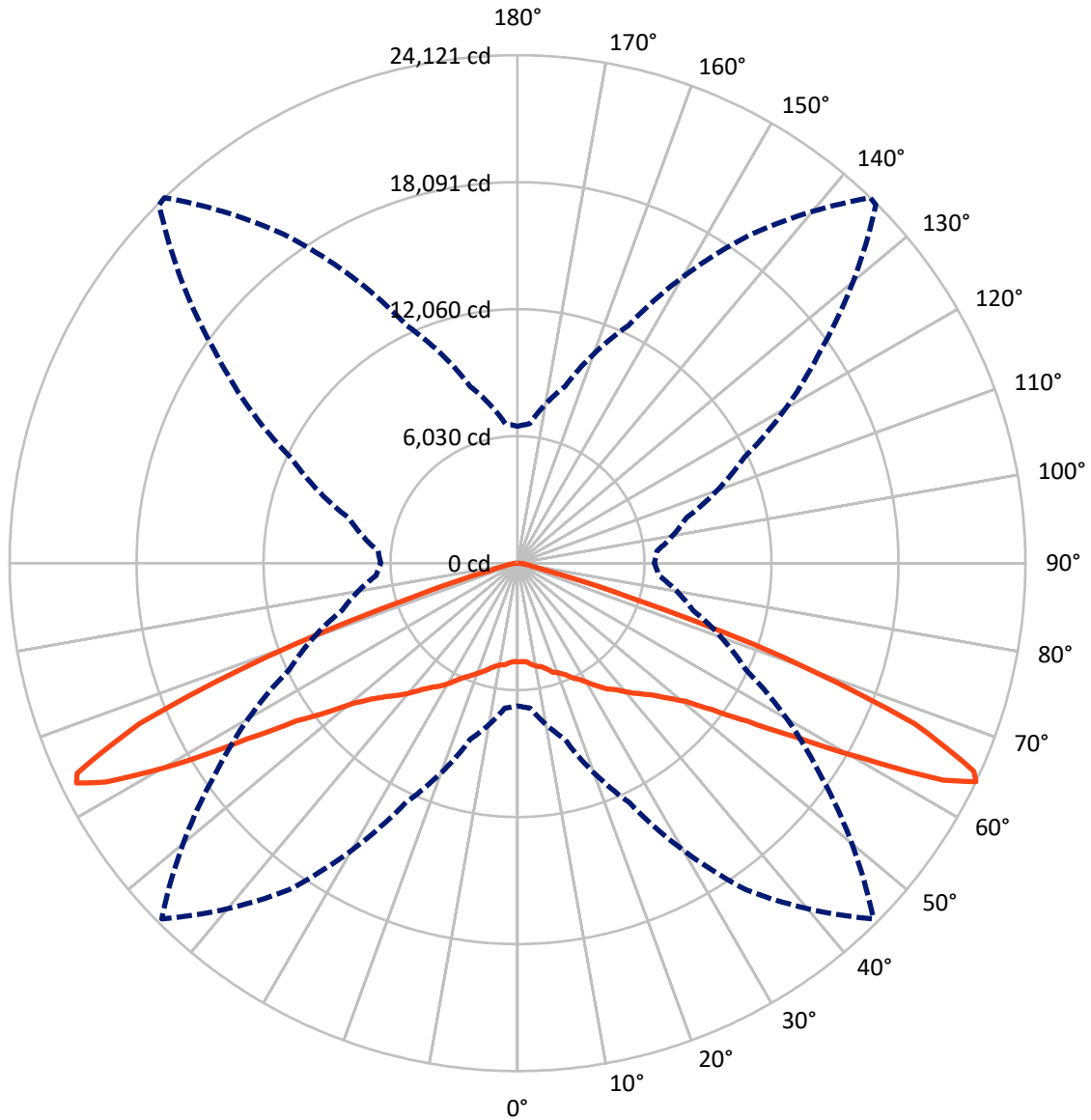
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.3 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 136-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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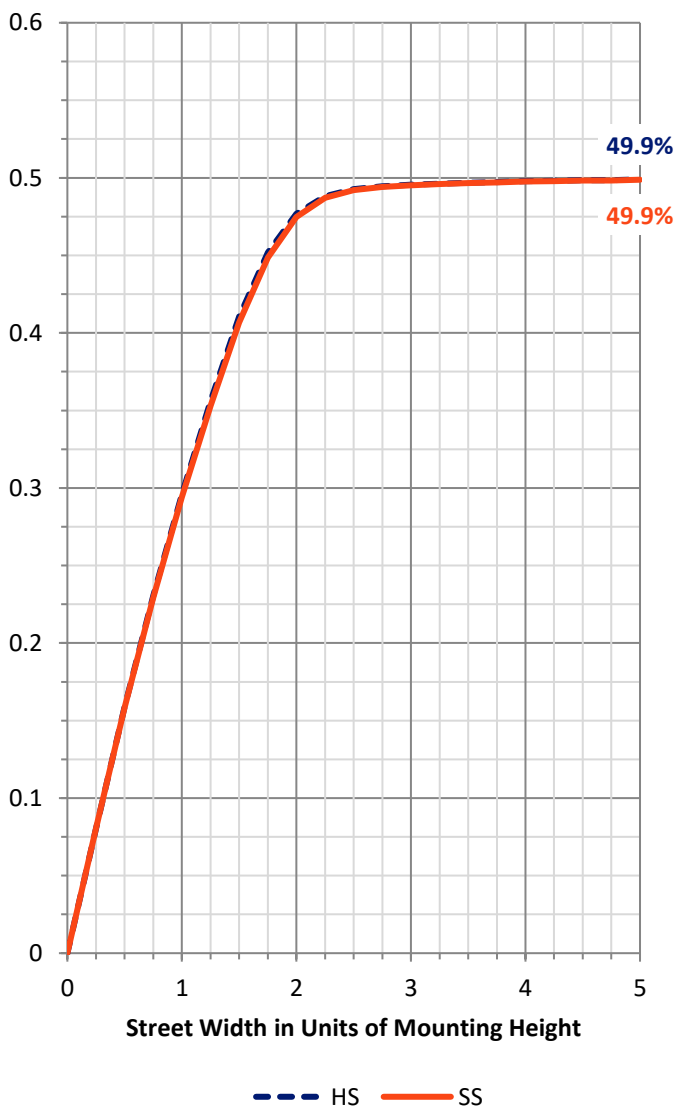
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	20036.9	0.0	20036.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	19998.7	0.0	19998.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	40035.7	0.0	40035.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	460.6	1.2
10°-20°	1484.4	3.7
20°-30°	2789.8	7.0
30°-40°	4600.9	11.5
40°-50°	7195.5	18.0
50°-60°	11626.1	29.0
60°-70°	10468.6	26.1
70°-80°	1240.1	3.1
80°-90°	169.7	0.4
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°	40035.7	100.0
0°-180°	40035.7	100.0

Coefficient of Utilization



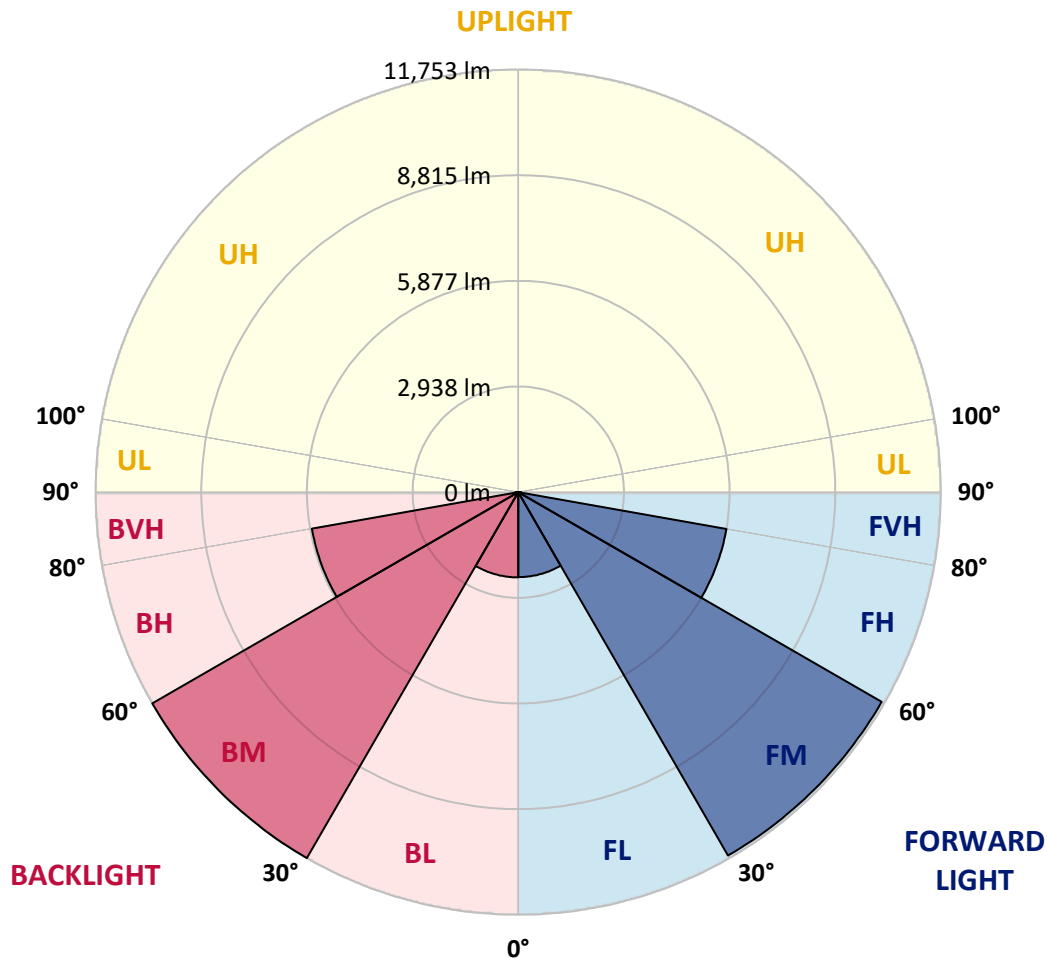
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2362.8	5.9			
FM (30°-60°)	11669.1	29.1			
FH (60°-80°)	5879.7	14.7			G3/7500
FVH (80°-90°)	87.1	0.2			G1/100
BL (0°-30°)	2372.0	5.9	B3/2500		
BM (30°-60°)	11753.4	29.4	B5		
BH (60°-80°)	5828.9	14.6	B5		G3/7500
BVH (80°-90°)	82.7	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4687.4	4687.4	4687.4	4687.4	4687.4	4687.4	4687.4	4687.4	4687.4	4687.4	4687.4
2.5°	4632.3	4641.4	4724.1	4691.9	4719.5	4669.0	4705.7	4783.8	4691.9	4760.8	4783.8
5°	4682.8	4696.5	4696.5	4728.7	4747.0	4737.9	4760.8	4728.7	4815.9	4779.2	4834.3
7.5°	4866.4	4843.4	4806.7	4834.3	4838.9	4861.8	4884.8	4926.1	4912.3	4880.2	4935.3
10°	4898.5	4880.2	4935.3	4939.9	4916.9	4898.5	4921.5	4921.5	4962.8	4972.0	4972.0
12.5°	4953.6	4972.0	4967.4	5004.1	5008.7	4994.9	5031.7	5100.5	5082.2	5095.9	5063.8
15°	5164.8	5141.9	5137.3	5174.0	5233.7	5146.4	5210.7	5206.1	5187.8	5215.3	5141.9
17.5°	5348.5	5275.0	5307.1	5366.8	5343.9	5362.2	5444.9	5371.4	5389.8	5357.6	5334.7
20°	5509.1	5449.5	5454.0	5477.0	5477.0	5532.1	5564.2	5536.7	5518.3	5513.7	5522.9
22.5°	5688.2	5619.3	5623.9	5720.3	5752.5	5734.1	5711.1	5757.0	5766.2	5729.5	5770.8
25°	5821.3	5894.8	5917.7	5963.6	5894.8	5945.3	5926.9	6014.1	6069.2	5995.8	6046.3
27.5°	6170.2	6138.1	6197.8	6193.2	6248.3	6197.8	6229.9	6257.5	6280.4	6285.0	6262.0
30°	6482.4	6496.2	6436.5	6597.2	6468.6	6551.3	6606.4	6620.1	6647.7	6647.7	6578.8
32.5°	6813.0	6785.4	6881.8	6845.1	6822.1	6886.4	6826.7	7015.0	6904.8	6969.1	6891.0
35°	7184.8	7184.8	7221.6	7322.6	7184.8	7143.5	7253.7	7331.7	7331.7	7217.0	7244.5
37.5°	7602.6	7565.9	7611.8	7740.3	7634.7	7497.0	7699.0	7731.2	7708.2	7676.1	7621.0
40°	7896.4	7887.2	7979.1	8148.9	7997.4	7969.9	8006.6	8093.8	8121.4	8153.5	8080.1
42.5°	8392.2	8433.6	8699.8	8658.5	8534.6	8438.2	8429.0	8754.9	8676.9	8594.2	8552.9
45°	9126.8	9090.1	9227.8	9232.4	9071.7	8860.5	8906.4	9204.8	9338.0	9154.3	9223.2
47.5°	9709.8	9728.2	9824.6	10022.0	9650.2	9429.8	9599.7	10081.7	10040.4	9971.5	10035.8
50°	10490.3	10572.9	10875.9	10807.1	10476.5	10205.7	10577.5	11032.0	11082.5	10830.0	10784.1
52.5°	11569.2	11697.7	11863.0	11918.1	11601.3	11504.9	11527.9	12092.5	11968.6	11725.3	11569.2
55°	12514.9	12574.6	12877.6	13332.1	13309.1	12845.5	13111.7	13322.9	12817.9	12317.5	12358.8
57.5°	12918.9	12946.5	13791.2	14700.2	15241.9	15347.5	15044.5	14332.9	13130.1	12166.0	12106.3
60°	11913.5	12175.2	13194.4	15246.5	17721.0	18942.2	16926.8	14447.7	12400.1	11229.5	11142.2
62.5°	9521.6	9535.4	11050.4	14163.1	19263.6	22463.5	17647.6	13368.8	10453.6	9126.8	8777.9
64°	6780.8	6909.4	8649.3	12537.9	18942.2	23895.9	17560.4	11959.4	8617.2	6734.9	6491.6
65°	4866.4	5045.4	6725.7	10885.1	18189.3	23726.0	17298.7	10747.4	6969.1	5141.9	4893.9
67.5°	1790.5	1863.9	2639.8	5444.9	13061.2	20218.5	13708.6	5908.5	3062.2	2180.7	1960.3
70°	831.0	835.6	977.9	1799.7	5711.1	13520.3	6542.1	2217.4	1152.3	913.6	849.3
72.5°	610.6	624.4	684.1	831.0	1680.3	5724.9	2148.6	909.0	674.9	596.8	583.0
75°	495.8	505.0	523.4	601.4	775.9	1533.4	872.3	629.0	537.1	482.0	463.7
77.5°	381.0	381.0	422.4	459.1	514.2	716.2	578.5	500.4	436.1	381.0	367.3
80°	275.5	280.0	330.5	358.1	348.9	472.9	417.8	413.2	358.1	298.4	275.5
82.5°	160.7	174.5	238.7	257.1	247.9	280.0	303.0	321.4	280.0	206.6	188.2
85°	91.8	96.4	137.7	142.3	142.3	133.1	174.5	192.8	188.2	128.5	114.8
87.5°	27.5	27.5	36.7	36.7	41.3	45.9	68.9	82.6	91.8	64.3	59.7
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°	136°	145°	155°	165°	175°	180°
0°	4687.4	4687.4	4687.4	4687.4	4687.4	4687.4	4687.4	4687.4	4687.4	4687.4	4687.4
2.5°	4760.8	4691.9	4696.5	4714.9	4655.2	4678.2	4747.0	4696.5	4682.8	4655.2	4641.4
5°	4737.9	4811.3	4783.8	4792.9	4779.2	4714.9	4705.7	4747.0	4770.0	4728.7	4811.3
7.5°	4898.5	4866.4	4829.7	4843.4	4811.3	4866.4	4903.1	4820.5	4861.8	4838.9	4792.9
10°	4990.4	4930.7	4958.2	4949.0	4926.1	4981.2	4944.4	4935.3	4898.5	4848.0	4921.5
12.5°	5022.5	5091.4	5137.3	5059.2	5073.0	5045.4	5022.5	5022.5	4981.2	4967.4	4981.2
15°	5164.8	5224.5	5206.1	5265.8	5187.8	5215.3	5242.9	5174.0	5210.7	5109.7	5187.8
17.5°	5426.5	5376.0	5440.3	5362.2	5389.8	5444.9	5357.6	5357.6	5385.2	5330.1	5261.2
20°	5591.8	5568.8	5545.9	5550.5	5504.5	5555.0	5527.5	5513.7	5472.4	5490.8	5527.5
22.5°	5747.9	5715.7	5724.9	5738.7	5770.8	5747.9	5734.1	5747.9	5646.9	5738.7	5610.1
25°	5940.7	6027.9	6000.4	6060.0	5968.2	6027.9	6023.3	5936.1	5991.2	5954.5	5926.9
27.5°	6262.0	6216.1	6257.5	6184.0	6248.3	6252.9	6197.8	6344.7	6280.4	6271.2	6252.9
30°	6675.2	6643.1	6615.6	6574.2	6624.7	6583.4	6629.3	6643.1	6583.4	6537.5	6450.3
32.5°	6909.4	6996.6	7028.7	6927.7	6932.3	6955.3	6914.0	6872.6	6909.4	6923.1	6909.4
35°	7239.9	7322.6	7340.9	7262.9	7221.6	7336.3	7253.7	7391.4	7272.1	7276.6	7152.7
37.5°	7625.6	7648.5	7804.6	7717.4	7680.7	7625.6	7777.1	7758.7	7786.2	7565.9	7676.1
40°	8061.7	8144.3	8231.6	8011.2	8006.6	8057.1	8047.9	8153.5	8103.0	8070.9	7992.8
42.5°	8539.2	8713.6	8727.4	8580.5	8488.7	8479.5	8525.4	8759.5	8764.1	8552.9	8461.1
45°	9172.7	9365.5	9315.0	9030.4	8929.4	8915.6	9140.6	9241.6	9328.8	9246.2	9168.1
47.5°	9962.4	10090.9	10054.2	9792.5	9466.5	9558.3	9778.7	10095.5	10003.7	9893.5	9801.7
50°	10807.1	10958.6	10880.5	10618.9	10306.7	10306.7	10577.5	10981.5	10954.0	10738.2	10655.6
52.5°	11743.6	11964.0	12143.0	11771.2	11509.5	11550.8	11977.8	12124.7	12055.8	11904.3	11835.5
55°	12441.5	12863.8	13231.1	13249.5	13263.2	13258.6	13368.8	13515.7	13024.5	12781.2	12533.3
57.5°	12271.6	13070.4	14328.3	15182.3	15434.8	15567.9	15531.2	14851.7	13690.2	12891.4	12974.0
60°	11059.6	12363.4	14392.6	17133.4	18969.8	18786.1	18115.9	15430.2	13322.9	11973.2	11803.3
62.5°	8823.8	10393.9	13313.7	17684.3	22743.5	22688.4	19181.0	14094.2	11100.9	9393.1	9287.5
64°	6647.7	8300.4	11876.8	17542.0	24065.7	24120.8	18910.1	12450.6	8686.1	6647.7	6487.0
65°	5086.8	6620.1	10467.4	17248.2	23781.1	23813.2	18157.2	10752.0	6601.8	4719.5	4545.0
67.5°	2024.6	2818.8	5679.0	13079.6	20420.5	20333.3	12955.6	5201.5	2525.0	1643.6	1611.4
70°	863.1	1074.3	1992.5	6197.8	13671.8	13419.3	5578.0	1689.5	936.6	785.1	780.5
72.5°	592.2	656.5	853.9	1914.4	5683.6	5550.5	1588.5	785.1	638.1	587.6	587.6
75°	477.5	523.4	619.8	803.4	1505.8	1450.7	748.3	578.5	509.6	472.9	468.3
77.5°	371.9	417.8	486.6	555.5	688.6	684.1	500.4	436.1	394.8	367.3	358.1
80°	293.8	339.7	385.6	394.8	449.9	440.7	339.7	344.3	321.4	266.3	261.7
82.5°	202.0	275.5	307.6	280.0	266.3	266.3	243.3	243.3	225.0	165.3	151.5
85°	124.0	183.6	192.8	165.3	124.0	124.0	133.1	128.5	119.4	87.2	82.6
87.5°	64.3	87.2	78.0	64.3	41.3	41.3	36.7	27.5	27.5	23.0	23.0
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)