

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: P484739

Luminaire Tested: **IFLD-L-SA8B-730-U-SL4-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484739
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8B-730-U-SL4-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens with House Side Shield
Light Source: (128) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

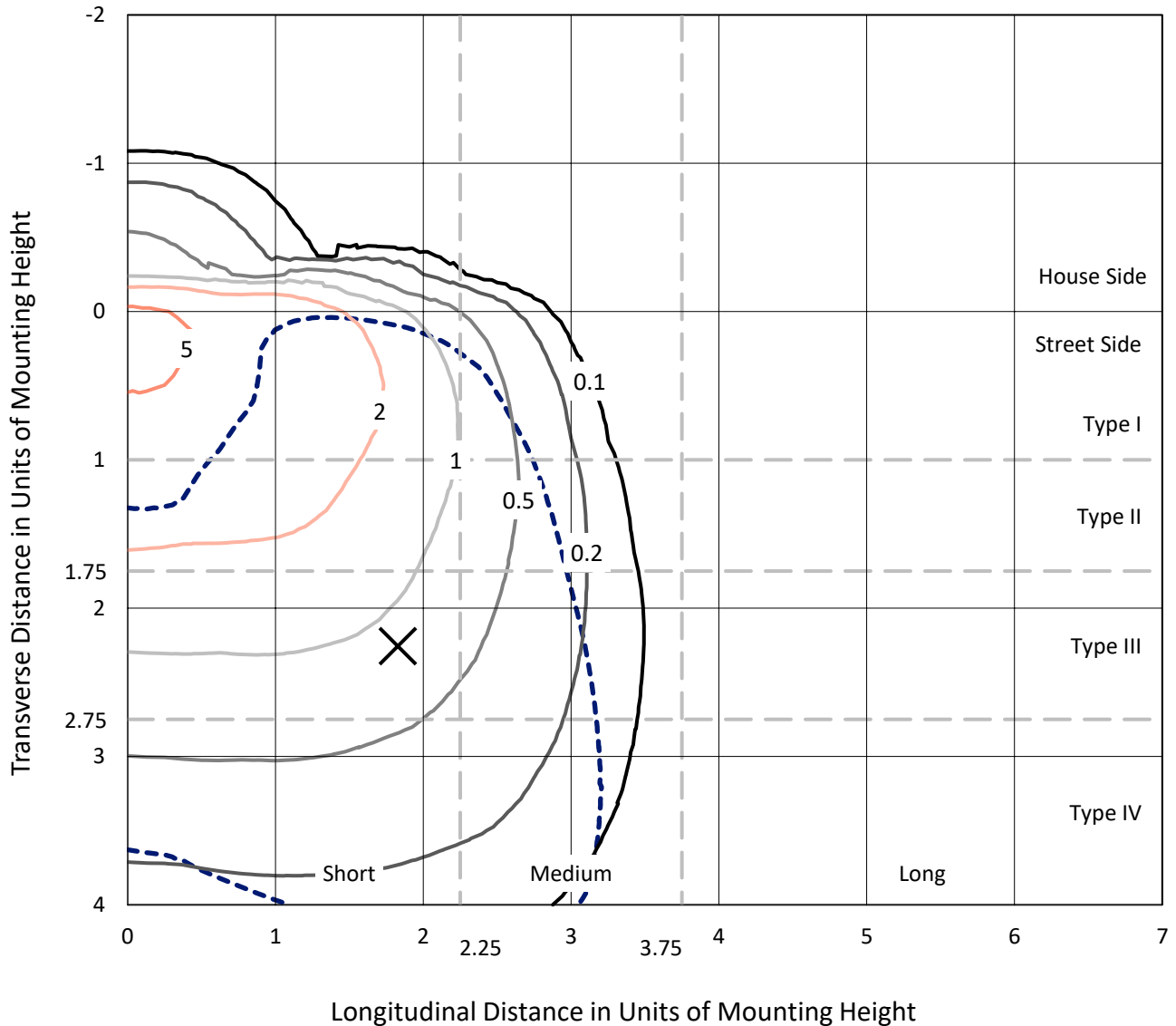
Lumens per Lamp: N/A
Luminaire Lumens: 30616.1 lumens
Efficiency: N/A
Efficacy: 95.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

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

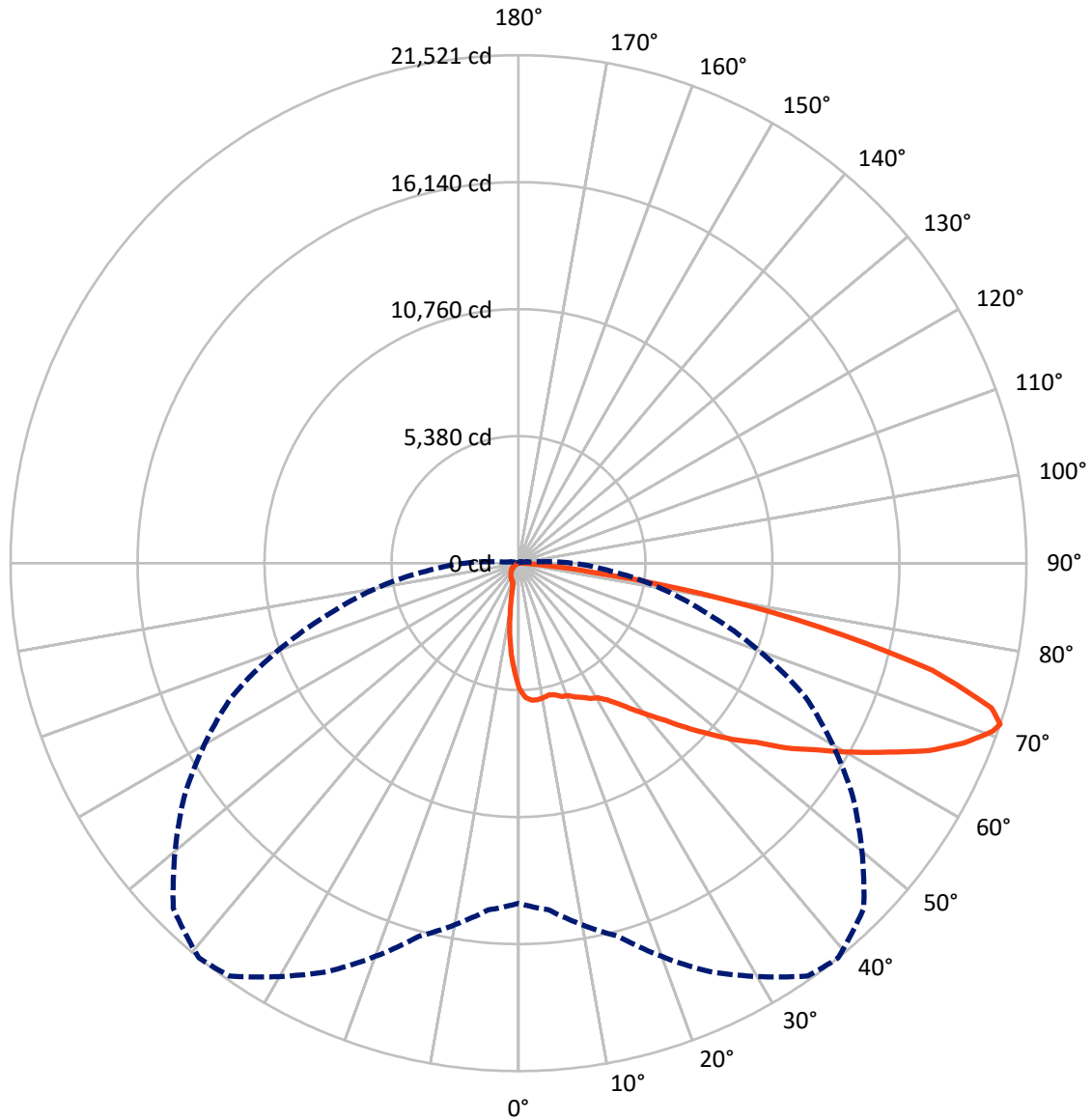
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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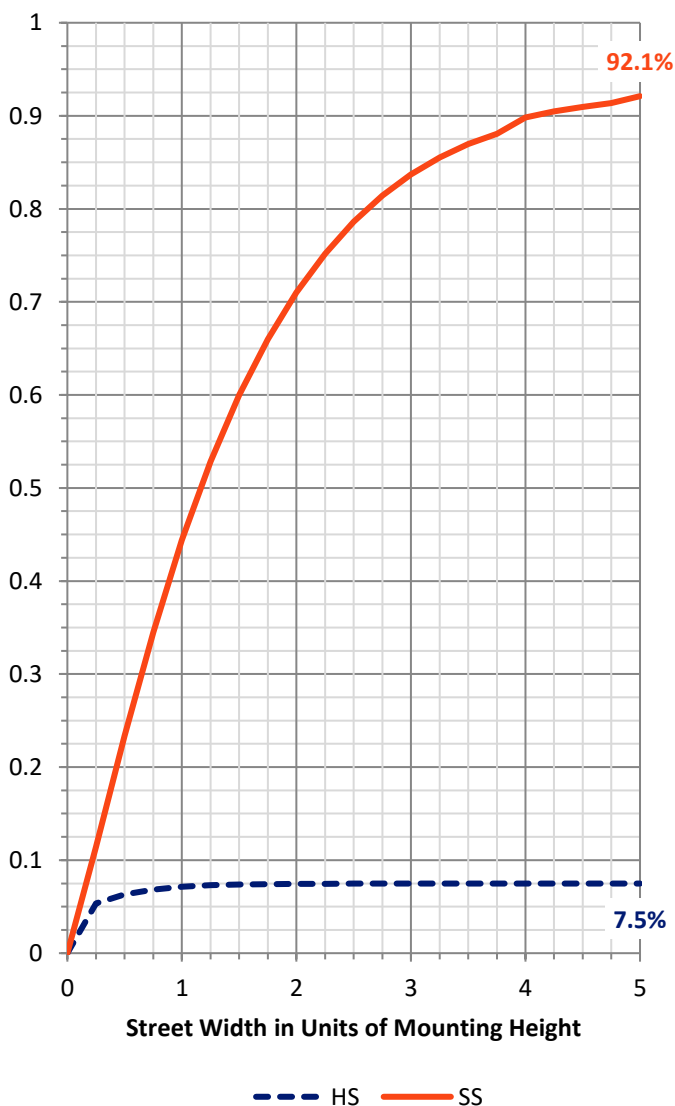
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2304.9	0.0	2304.9
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	28311.2	0.0	28311.2
	% Fixture	92.5	0.0	92.5
Total	Lumens	30616.1	0.0	30616.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	445.5	1.5
10°-20°	1096.6	3.6
20°-30°	1760.4	5.8
30°-40°	2694.8	8.8
40°-50°	4325.6	14.1
50°-60°	6353.6	20.8
60°-70°	8002.2	26.1
70°-80°	5340.5	17.4
80°-90°	596.8	1.9
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°	30616.1	100.0
0°-180°	30616.1	100.0

Coefficient of Utilization



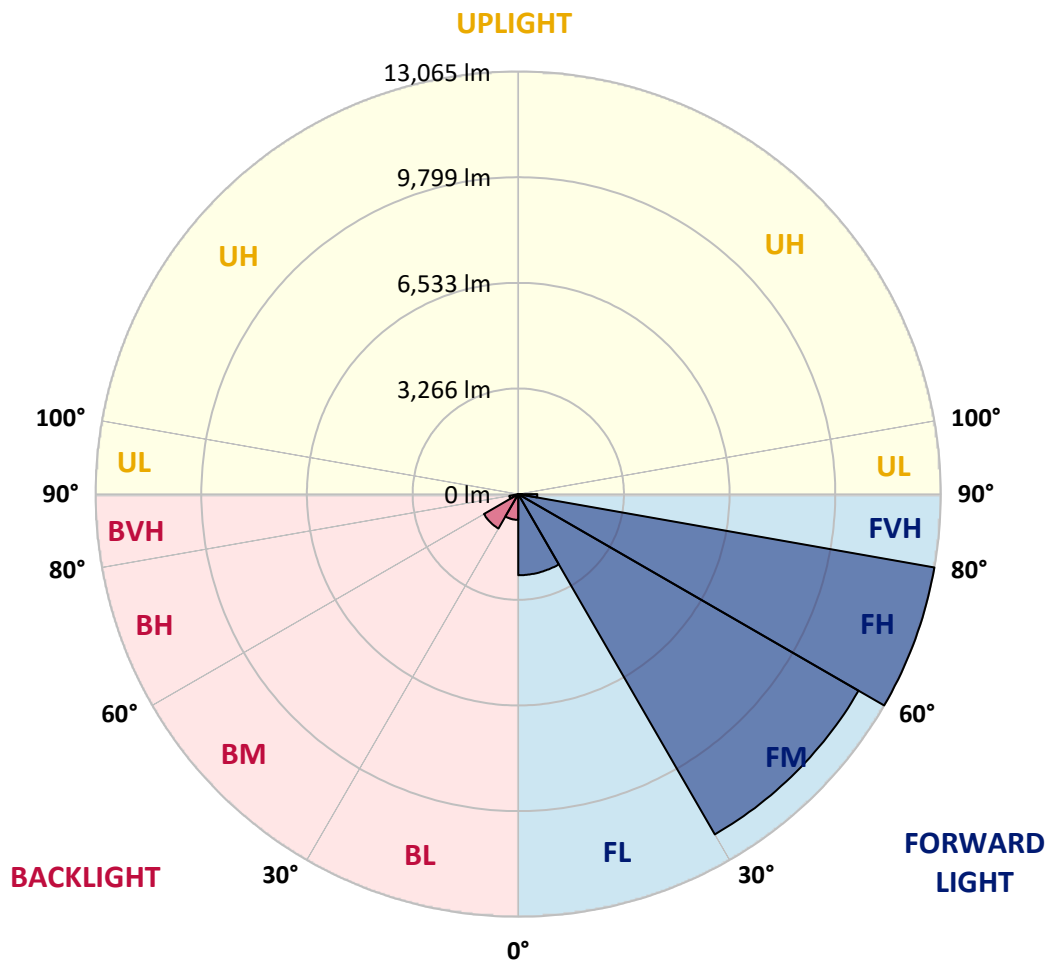
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2506.8	8.2			
FM (30°-60°)	12148.9	39.7			
FH (60°-80°)	13065.2	42.7			G5
FVH (80°-90°)	590.2	1.9			G4/750
BL (0°-30°)	795.8	2.6	B2/1000		
BM (30°-60°)	1225.2	4.0	B2/2500		
BH (60°-80°)	277.4	0.9	B1/500		G1/500
BVH (80°-90°)	6.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	5328.9	5328.9	5328.9	5328.9	5328.9	5328.9	5328.9	5328.9	5328.9	5328.9	5328.9
2.5°	5742.6	5798.8	5742.6	5718.5	5694.4	5698.4	5634.1	5646.2	5569.9	5469.5	5389.2
5°	5923.3	5999.6	5939.3	5911.2	5907.2	5830.9	5798.8	5722.5	5630.1	5473.5	5377.1
7.5°	5907.2	5891.1	5919.2	5895.2	5842.9	5842.9	5806.8	5698.4	5606.0	5429.3	5264.7
10°	5786.7	5834.9	5810.8	5782.7	5794.8	5798.8	5730.5	5654.2	5626.1	5449.4	5180.3
12.5°	5774.7	5694.4	5782.7	5786.7	5734.5	5730.5	5722.5	5702.4	5614.0	5453.4	5200.4
15°	5734.5	5702.4	5790.7	5794.8	5806.8	5794.8	5806.8	5790.7	5702.4	5610.0	5288.8
17.5°	5766.6	5730.5	5855.0	5915.2	5887.1	5943.3	5923.3	5851.0	5774.7	5666.3	5373.1
20°	5774.7	5826.9	5963.4	5987.5	6075.9	5983.5	5979.5	5903.2	5855.0	5738.5	5425.3
22.5°	5923.3	5947.4	6116.0	6168.2	6172.2	6160.2	6059.8	5971.5	5951.4	5806.8	5437.4
25°	6148.1	6232.5	6308.8	6340.9	6352.9	6296.7	6192.3	6079.9	6031.7	5939.3	5561.8
27.5°	6545.7	6493.5	6561.8	6610.0	6473.4	6493.5	6361.0	6264.6	6196.3	6116.0	5706.4
30°	6899.1	6850.9	6854.9	6846.9	6730.4	6622.0	6585.9	6417.2	6332.9	6365.0	5931.3
32.5°	7216.3	7111.9	7200.3	7160.1	6943.3	6911.1	6883.0	6670.2	6686.3	6834.8	6268.6
35°	7509.5	7473.3	7545.6	7473.3	7328.8	7320.7	7292.6	7107.9	7196.3	7409.1	6846.9
37.5°	7778.5	7790.6	7878.9	7842.8	7854.8	7862.9	7846.8	7650.0	7903.0	8380.9	7521.5
40°	8027.5	8011.5	8228.3	8340.8	8364.8	8453.2	8453.2	8405.0	8794.5	9332.6	8457.2
42.5°	8292.6	8332.7	8613.8	8802.6	9031.5	9107.8	9212.2	9236.3	9838.6	10453.0	9413.0
45°	8726.3	8658.0	9015.4	9461.2	9661.9	9931.0	10091.6	10228.2	10955.0	11798.3	10368.7
47.5°	9276.4	9139.9	9453.1	10099.7	10565.5	10786.4	11075.5	11256.2	11967.0	12838.4	11272.3
50°	9886.8	9746.3	9898.9	10790.4	11332.5	11734.1	12103.5	12332.4	13191.8	14003.0	11930.9
52.5°	10577.5	10449.0	10473.1	11509.2	12308.3	12601.5	13087.4	13428.7	14284.1	14705.8	12163.8
55°	11312.4	11280.3	11204.0	12212.0	13163.7	13822.3	14115.4	14525.0	15404.5	15087.2	12416.8
57.5°	12051.3	11950.9	12059.4	13143.6	14537.1	14930.6	15336.2	15581.2	16026.9	15420.6	12320.4
60°	12746.1	12754.1	12906.7	14155.6	15705.7	16263.9	16629.3	16480.7	16665.4	15565.1	12099.5
62.5°	13332.4	13316.3	13701.8	15292.1	17251.7	17629.2	17902.3	17239.7	16962.6	15705.7	11714.0
65°	13858.4	14039.1	14645.5	16645.4	18705.5	19139.2	18974.5	17958.5	17251.7	15292.1	10629.7
67.5°	14256.0	14525.0	15577.2	17918.4	20038.7	20343.9	20115.0	18504.7	16910.4	13669.7	8658.0
70°	14488.9	14762.0	16243.8	18978.5	21102.9	21323.7	20785.6	18083.0	14918.6	9898.9	5401.2
71°	14416.6	14749.9	16372.3	19091.0	21355.9	21520.5	20685.2	17304.0	13416.7	8288.5	3939.5
72.5°	13762.0	14075.3	15838.2	19010.7	21050.7	20950.3	19902.2	15432.6	10561.5	5284.8	2036.0
75°	10111.7	10449.0	13593.4	16444.6	18789.8	18099.1	16107.3	10830.5	5509.6	1618.4	594.3
77.5°	5035.8	5092.0	8437.1	11938.9	13782.1	13095.4	10794.4	6039.7	2060.1	477.9	297.2
80°	2321.1	2337.2	3164.4	6184.3	8332.7	7842.8	6047.7	2979.7	931.7	253.0	232.9
82.5°	1582.2	1606.3	1907.5	2562.1	3618.2	3052.0	2449.6	1907.5	534.1	152.6	228.9
85°	289.1	265.0	1068.2	1357.3	1397.5	947.7	847.3	1650.5	200.8	88.3	200.8
87.5°	0.0	4.0	148.6	554.2	498.0	220.9	289.1	401.6	20.1	28.1	36.1
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°	5328.9	5328.9	5328.9	5328.9	5328.9	5328.9	5328.9	5328.9	5328.9	5328.9	5328.9
2.5°	5320.9	5276.7	5128.1	4963.5	4814.9	4698.5	4549.9	4481.6	4373.2	4312.9	4308.9
5°	5244.6	5124.1	4867.1	4590.0	4280.8	4023.8	3738.7	3578.1	3393.3	3337.1	3325.1
7.5°	5116.1	4943.4	4565.9	4176.4	3702.5	3248.8	2899.4	2525.9	2297.0	2200.6	2164.5
10°	5035.8	4827.0	4312.9	3730.7	3068.0	2429.5	1939.6	1542.1	1333.2	1232.8	1208.7
12.5°	5035.8	4810.9	4108.1	3305.0	2425.5	1662.5	1200.7	971.8	903.5	879.5	879.5
15°	5023.7	4778.8	3911.4	2867.3	1795.0	1116.4	895.5	847.3	839.3	835.3	831.3
17.5°	5084.0	4722.5	3710.6	2397.4	1269.0	879.5	823.2	815.2	807.2	807.2	799.1
20°	5128.1	4690.4	3469.6	1899.5	947.7	815.2	791.1	779.1	775.0	771.0	779.1
22.5°	5092.0	4642.2	3172.5	1421.6	827.2	775.0	759.0	746.9	738.9	738.9	742.9
25°	5160.3	4598.1	2875.3	1072.2	775.0	738.9	722.8	714.8	710.8	706.8	698.7
27.5°	5252.6	4618.1	2521.9	863.4	730.9	702.8	686.7	678.7	674.6	666.6	674.6
30°	5365.1	4614.1	2132.4	755.0	690.7	662.6	646.5	642.5	634.5	630.5	634.5
32.5°	5557.8	4718.5	1730.8	698.7	646.5	622.4	606.4	602.4	598.3	594.3	590.3
35°	5971.5	4847.0	1353.3	654.6	606.4	578.3	566.2	558.2	554.2	550.2	546.1
37.5°	6481.5	5132.2	1032.1	614.4	566.2	538.1	526.1	522.1	506.0	502.0	498.0
40°	7120.0	5437.4	795.1	570.2	530.1	502.0	489.9	477.9	457.8	449.8	441.7
42.5°	7915.1	5734.5	654.6	530.1	489.9	469.8	449.8	429.7	413.6	397.6	389.5
45°	8710.2	6079.9	574.3	493.9	457.8	433.7	417.6	389.5	361.4	337.3	333.3
47.5°	9372.8	6204.4	526.1	453.8	425.7	405.6	381.5	345.4	305.2	281.1	277.1
50°	9866.7	6132.1	477.9	413.6	389.5	369.5	337.3	293.2	253.0	228.9	220.9
52.5°	9963.1	5814.8	433.7	381.5	353.4	329.3	293.2	245.0	200.8	176.7	172.7
55°	9894.9	5288.8	397.6	353.4	321.3	285.1	245.0	196.8	156.6	132.5	128.5
57.5°	9754.3	4666.3	357.4	317.2	281.1	245.0	200.8	160.6	116.5	92.4	92.4
60°	9276.4	3819.0	317.2	277.1	240.9	208.8	164.6	116.5	80.3	60.2	56.2
62.5°	8609.8	2935.5	277.1	236.9	208.8	172.7	128.5	84.3	48.2	32.1	32.1
65°	7393.0	2056.1	232.9	196.8	172.7	140.6	96.4	52.2	28.1	12.0	12.0
67.5°	5618.1	1273.0	192.8	164.6	148.6	112.4	68.3	32.1	12.0	4.0	0.0
70°	3224.7	662.6	152.6	132.5	116.5	84.3	48.2	16.1	8.0	0.0	0.0
71°	2252.8	489.9	136.5	116.5	104.4	76.3	40.2	12.0	4.0	0.0	0.0
72.5°	1128.4	325.3	116.5	96.4	84.3	60.2	32.1	12.0	4.0	0.0	0.0
75°	401.6	208.8	80.3	64.3	60.2	44.2	20.1	8.0	4.0	0.0	0.0
77.5°	277.1	168.7	56.2	40.2	40.2	28.1	12.0	4.0	4.0	0.0	0.0
80°	253.0	92.4	36.1	24.1	20.1	16.1	8.0	4.0	0.0	0.0	0.0
82.5°	253.0	68.3	20.1	16.1	12.0	8.0	4.0	0.0	0.0	0.0	0.0
85°	176.7	36.1	12.0	12.0	8.0	4.0	0.0	0.0	0.0	0.0	0.0
87.5°	28.1	12.0	8.0	4.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0
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)