

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: P484341

Luminaire Tested: **IFLD-M-SA4D-730-U-SL3-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484341
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4D-730-U-SL3-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens with House Side Shield
Light Source: (64) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

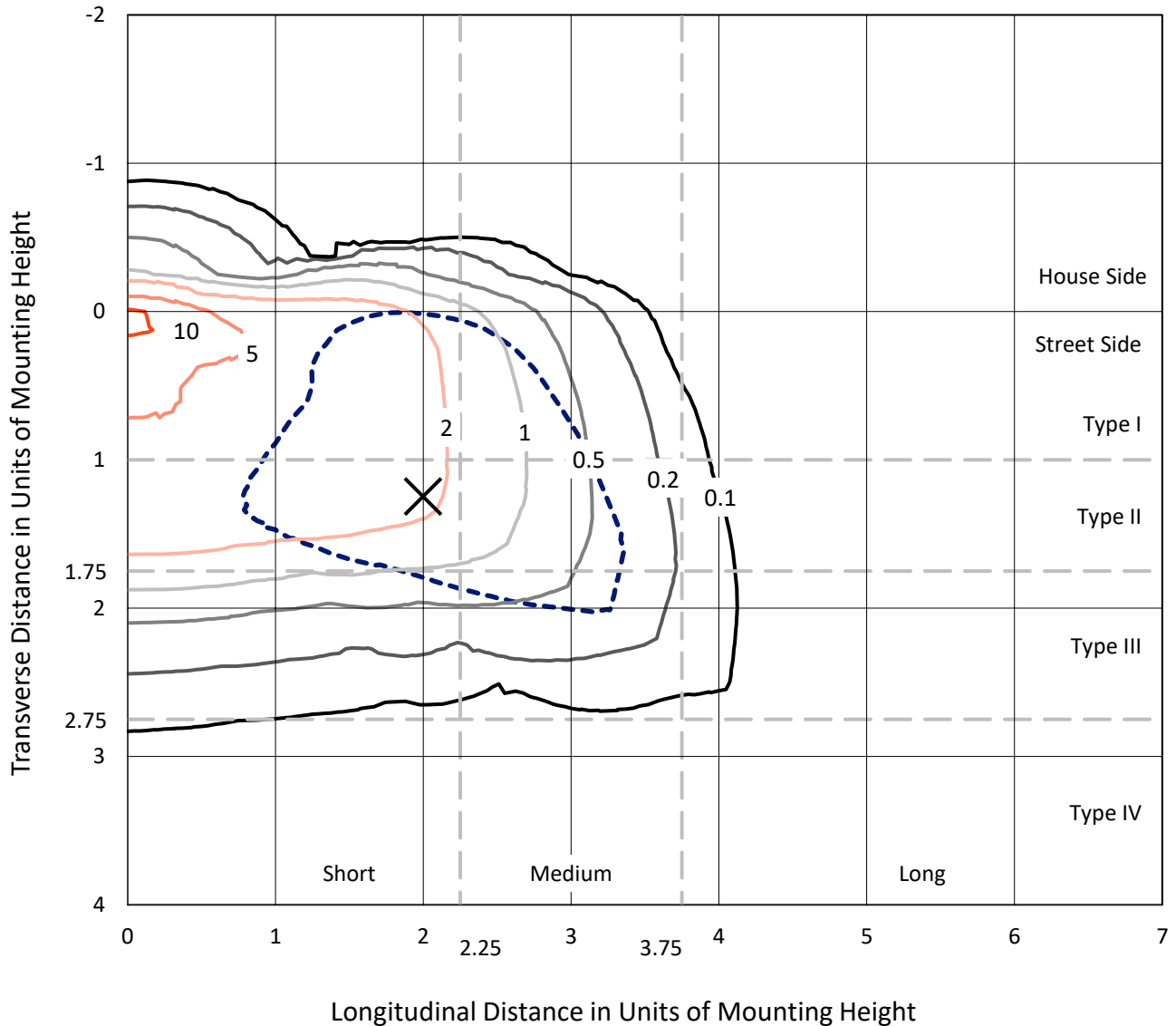
Lumens per Lamp: N/A
Luminaire Lumens: 23823.7 lumens
Efficiency: N/A
Efficacy: 95.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 249.7
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

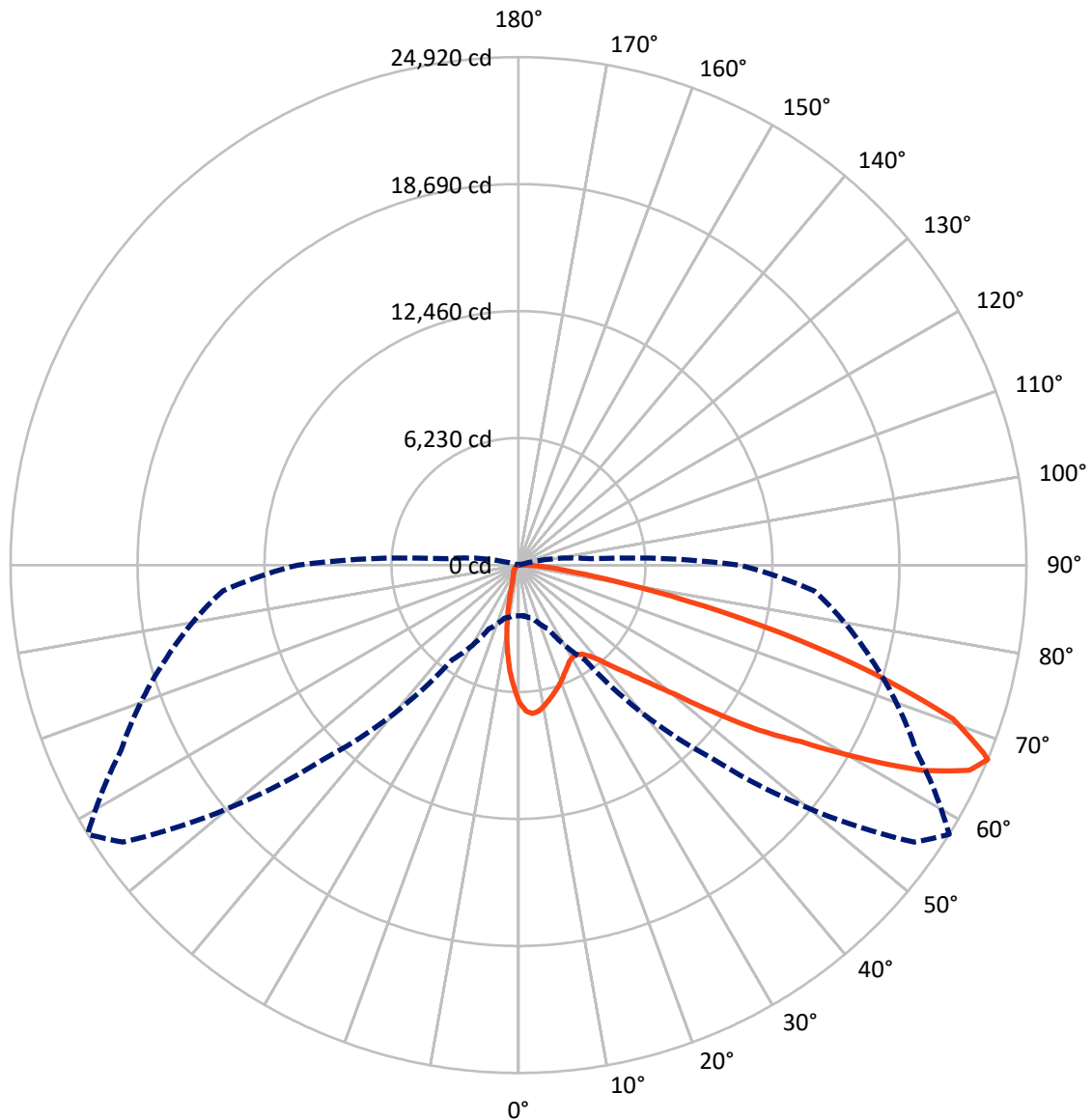
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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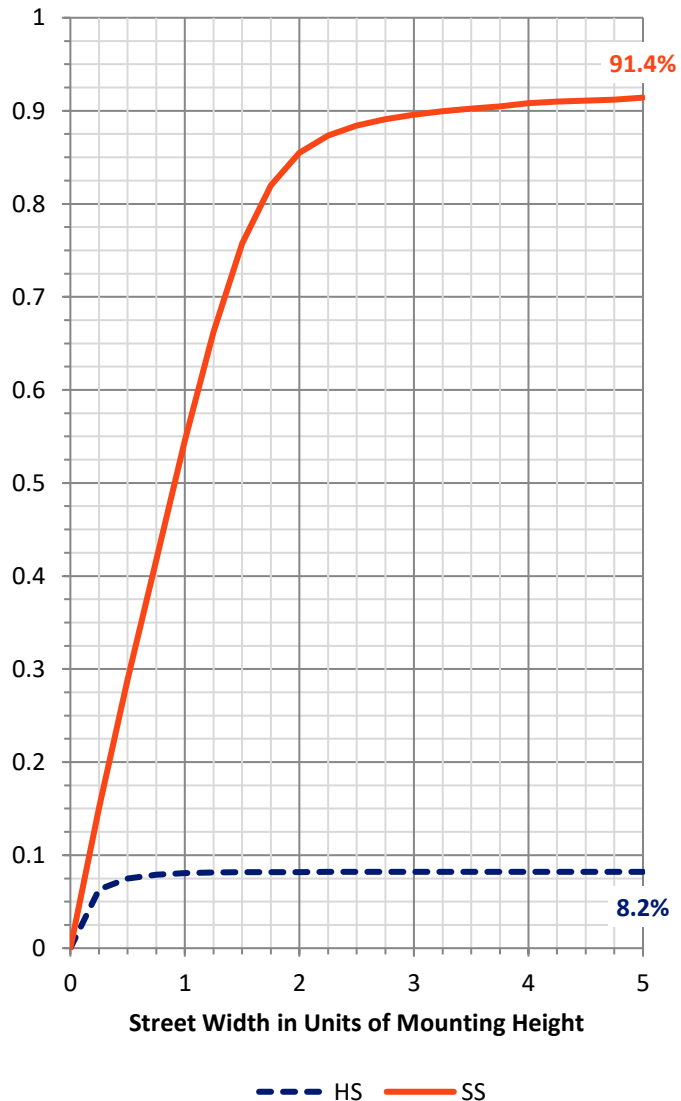
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1969.2	0.0	1969.2
	% Fixture	8.3	0.0	8.3
Street Side	Lumens	21854.5	0.0	21854.5
	% Fixture	91.7	0.0	91.7
Total	Lumens	23823.7	0.0	23823.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	535.5	2.2
10°-20°	1110.8	4.7
20°-30°	1473.8	6.2
30°-40°	2042.2	8.6
40°-50°	3332.4	14.0
50°-60°	5857.2	24.6
60°-70°	6487.3	27.2
70°-80°	2688.4	11.3
80°-90°	295.9	1.2
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°	23823.7	100.0
0°-180°	23823.7	100.0

Coefficient of Utilization

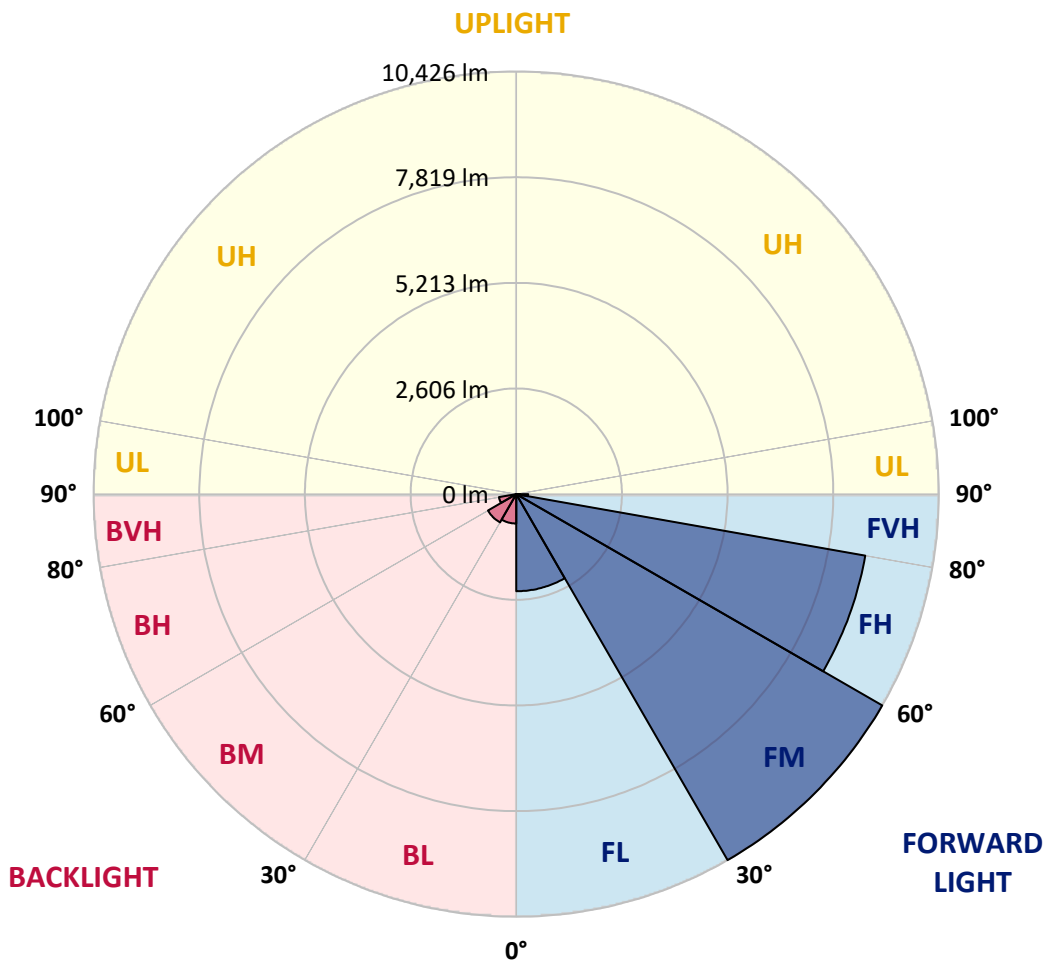


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2394.9	10.1			
FM (30°-60°)	10425.7	43.8			
FH (60°-80°)	8742.7	36.7			G4/12000
FVH (80°-90°)	291.1	1.2			G3/500
BL (0°-30°)	725.3	3.0	B2/1000		
BM (30°-60°)	806.1	3.4	B1/1000		
BH (60°-80°)	433.0	1.8	B1/500		G1/500
BVH (80°-90°)	4.9	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-G4
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	6749.6	6749.6	6749.6	6749.6	6749.6	6749.6	6749.6	6749.6	6749.6	6749.6	6749.6
2.5°	7344.2	7369.5	7391.6	7350.5	7385.3	7334.7	7205.0	7176.6	7154.4	6961.5	6850.8
5°	7341.0	7312.6	7334.7	7353.7	7306.2	7344.2	7312.6	7315.7	7230.3	7056.4	6746.4
7.5°	6850.8	6838.1	6850.8	6942.5	7046.9	7129.1	7176.6	7224.0	7167.1	6907.7	6607.2
10°	6189.7	6253.0	6287.8	6452.3	6613.6	6765.4	6914.0	7002.6	6986.8	6882.4	6455.4
12.5°	5728.0	5709.0	5835.5	5943.0	6104.3	6411.1	6670.5	6752.7	6847.6	6702.1	6256.2
15°	5301.0	5250.4	5326.3	5512.9	5788.1	6031.6	6395.3	6518.7	6638.9	6676.8	6148.6
17.5°	4893.0	4918.3	4997.3	5165.0	5424.3	5765.9	6107.5	6284.6	6572.4	6521.8	5987.3
20°	4696.9	4750.6	4779.1	4864.5	5044.8	5386.4	5895.6	6037.9	6344.7	6518.7	5829.2
22.5°	4706.4	4706.4	4639.9	4690.5	4855.0	5120.7	5607.8	5765.9	6253.0	6354.2	5686.8
25°	4807.6	4744.3	4747.5	4687.4	4757.0	4902.5	5348.4	5541.4	6066.4	6370.0	5610.9
27.5°	4883.5	4870.8	4851.8	4836.0	4747.5	4769.6	5177.6	5335.8	5993.6	6351.0	5493.9
30°	5158.6	5101.7	5082.7	5047.9	4930.9	4823.4	5041.6	5240.9	5936.7	6395.3	5427.5
32.5°	5389.5	5399.0	5414.8	5313.6	5212.4	4946.7	5079.6	5237.7	5895.6	6496.5	5493.9
35°	5680.5	5721.6	5728.0	5696.3	5588.8	5326.3	5237.7	5373.7	5965.2	6676.8	5500.2
37.5°	6123.3	6079.0	6199.2	6211.9	6136.0	5788.1	5604.6	5658.4	6170.8	6964.6	5740.6
40°	6411.1	6464.9	6689.5	6828.6	6699.0	6382.7	6136.0	6126.5	6468.1	7416.9	6037.9
42.5°	6730.6	6850.8	7097.5	7398.0	7382.1	7088.0	6838.1	6797.0	6996.3	8071.6	6509.2
45°	7167.1	7274.6	7619.4	8071.6	8318.4	8068.5	7692.1	7609.9	7638.3	8963.6	7312.6
47.5°	7891.4	7862.9	8359.5	8805.4	9210.3	9017.3	8856.0	8615.7	8593.5	10013.7	8422.7
50°	8710.5	8704.2	9147.0	9653.1	10121.2	10497.6	10228.7	9966.2	9972.5	11440.1	9729.0
52.5°	9488.6	9612.0	10089.6	10592.5	11395.8	11800.7	12060.0	11955.7	11452.8	12714.7	11127.0
55°	9899.8	10007.3	10481.8	11348.4	12616.7	13657.3	14359.4	14270.9	13299.9	14150.7	12506.0
57.5°	9510.8	9583.5	10225.6	11361.0	13470.7	15792.2	16465.9	16355.2	15210.3	15248.2	14172.8
60°	7881.9	7995.7	8950.9	10282.5	13138.6	17436.9	19366.3	19198.6	16949.8	16636.7	15245.0
62.5°	5459.1	5535.0	6319.4	7976.8	11563.5	18009.4	22105.3	22197.0	18784.3	17718.4	15564.5
65°	3536.1	3529.8	3978.9	5101.7	8195.0	16276.1	23724.7	24294.0	20555.5	17882.9	15466.4
67°	2498.7	2489.2	2701.1	3460.2	5674.2	13410.6	23696.2	24920.3	21517.0	17930.3	14558.7
67.5°	2305.7	2296.2	2498.7	3181.8	5120.7	12471.2	23342.0	24597.7	21855.4	17863.9	14160.2
70°	1790.2	1764.9	1840.8	2191.9	2982.6	8065.3	19976.7	22595.6	21153.3	16206.6	11307.3
72.5°	1293.6	1322.1	1442.3	1799.7	2340.5	4339.5	15226.1	18271.9	17667.8	12215.0	7186.0
75°	901.4	926.7	1119.7	1467.6	2147.6	2631.5	10295.1	13252.4	12306.7	6743.2	3061.7
77.5°	471.3	502.9	714.8	1173.4	1951.5	2036.9	6151.8	8403.8	6521.8	2400.6	844.5
80°	218.2	234.1	357.4	831.8	1632.0	1790.2	3586.7	4674.7	2609.4	537.7	291.0
82.5°	94.9	104.4	164.5	477.6	1157.6	1565.6	2220.3	2451.2	945.7	174.0	180.3
85°	19.0	22.1	63.3	253.0	559.8	948.9	1559.3	1454.9	474.4	85.4	142.3
87.5°	0.0	0.0	15.8	72.7	151.8	281.5	661.0	661.0	145.5	44.3	53.8
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°	6749.6	6749.6	6749.6	6749.6	6749.6	6749.6	6749.6	6749.6	6749.6	6749.6	6749.6
2.5°	6752.7	6638.9	6389.0	6158.1	5993.6	5807.0	5560.3	5449.6	5408.5	5351.6	5266.2
5°	6575.6	6436.4	6009.5	5579.3	5108.0	4750.6	4371.1	4149.7	3982.1	3877.7	3842.9
7.5°	6325.7	6041.1	5465.4	4775.9	4165.5	3634.1	3058.5	2669.5	2419.6	2318.4	2223.5
10°	6126.5	5756.4	4880.3	4023.2	3210.3	2432.2	1783.9	1442.3	1182.9	1084.9	1072.2
12.5°	5867.1	5424.3	4333.1	3254.6	2233.0	1448.6	986.8	857.1	784.4	771.7	762.3
15°	5652.1	5123.9	3814.4	2520.8	1445.4	904.6	768.6	736.9	718.0	711.6	714.8
17.5°	5506.6	4801.2	3283.1	1834.5	952.0	740.1	708.5	689.5	680.0	676.9	667.4
20°	5218.7	4529.2	2758.0	1284.1	743.3	683.2	657.9	642.1	632.6	629.4	626.2
22.5°	5054.3	4184.5	2233.0	895.1	661.0	619.9	600.9	588.3	572.5	563.0	559.8
25°	4889.8	3931.4	1764.9	695.8	600.9	572.5	544.0	528.2	502.9	490.2	487.1
27.5°	4696.9	3681.6	1360.0	604.1	540.9	512.4	483.9	458.6	427.0	414.3	408.0
30°	4586.2	3438.0	1024.8	540.9	496.6	458.6	423.8	392.2	357.4	335.3	328.9
32.5°	4529.2	3216.6	768.6	493.4	449.1	408.0	363.7	325.8	294.1	275.2	272.0
35°	4459.6	3001.6	604.1	449.1	404.8	360.6	316.3	278.3	246.7	230.9	224.6
37.5°	4532.4	2875.1	502.9	414.3	370.1	319.5	272.0	234.1	208.7	192.9	189.8
40°	4731.7	2770.7	436.5	382.7	335.3	281.5	237.2	199.3	177.1	164.5	158.1
42.5°	5038.5	2770.7	395.4	351.1	303.6	246.7	202.4	174.0	151.8	139.2	136.0
45°	5595.1	2856.1	360.6	319.5	265.7	211.9	174.0	145.5	123.4	110.7	107.5
47.5°	6376.3	3052.2	332.1	291.0	237.2	186.6	151.8	123.4	101.2	88.6	85.4
50°	7426.4	3498.1	303.6	256.2	211.9	161.3	126.5	98.0	79.1	66.4	63.3
52.5°	8735.9	4130.7	275.2	237.2	180.3	136.0	101.2	79.1	60.1	50.6	47.4
55°	10121.2	4905.6	240.4	211.9	155.0	113.9	82.2	60.1	44.3	38.0	34.8
57.5°	11516.0	5503.4	211.9	183.4	126.5	91.7	66.4	47.4	31.6	25.3	22.1
60°	12256.1	5560.3	183.4	151.8	101.2	72.7	50.6	34.8	22.1	15.8	12.7
62.5°	12370.0	5054.3	158.1	123.4	82.2	56.9	34.8	25.3	12.7	6.3	6.3
65°	11784.9	4212.9	136.0	98.0	63.3	41.1	25.3	15.8	6.3	3.2	0.0
67°	10836.0	3529.8	117.0	82.2	50.6	31.6	19.0	9.5	3.2	0.0	0.0
67.5°	10469.1	3340.0	110.7	75.9	47.4	28.5	15.8	9.5	3.2	0.0	0.0
70°	8125.4	2384.8	82.2	53.8	34.8	22.1	12.7	6.3	0.0	0.0	0.0
72.5°	4978.4	1394.8	63.3	38.0	25.3	15.8	9.5	3.2	0.0	0.0	0.0
75°	2087.5	480.8	53.8	28.5	19.0	9.5	6.3	3.2	0.0	0.0	0.0
77.5°	544.0	180.3	38.0	19.0	12.7	9.5	6.3	3.2	0.0	0.0	0.0
80°	221.4	82.2	25.3	12.7	12.7	9.5	6.3	3.2	0.0	0.0	0.0
82.5°	145.5	38.0	15.8	12.7	9.5	6.3	3.2	0.0	0.0	0.0	0.0
85°	110.7	22.1	9.5	9.5	6.3	3.2	0.0	0.0	0.0	0.0	0.0
87.5°	47.4	12.7	9.5	6.3	6.3	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)