

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: P484421

Luminaire Tested: **IFLD-L-SA7A-740-U-SL3-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484421
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7A-740-U-SL3-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens with House Side Shield
Light Source: (112) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

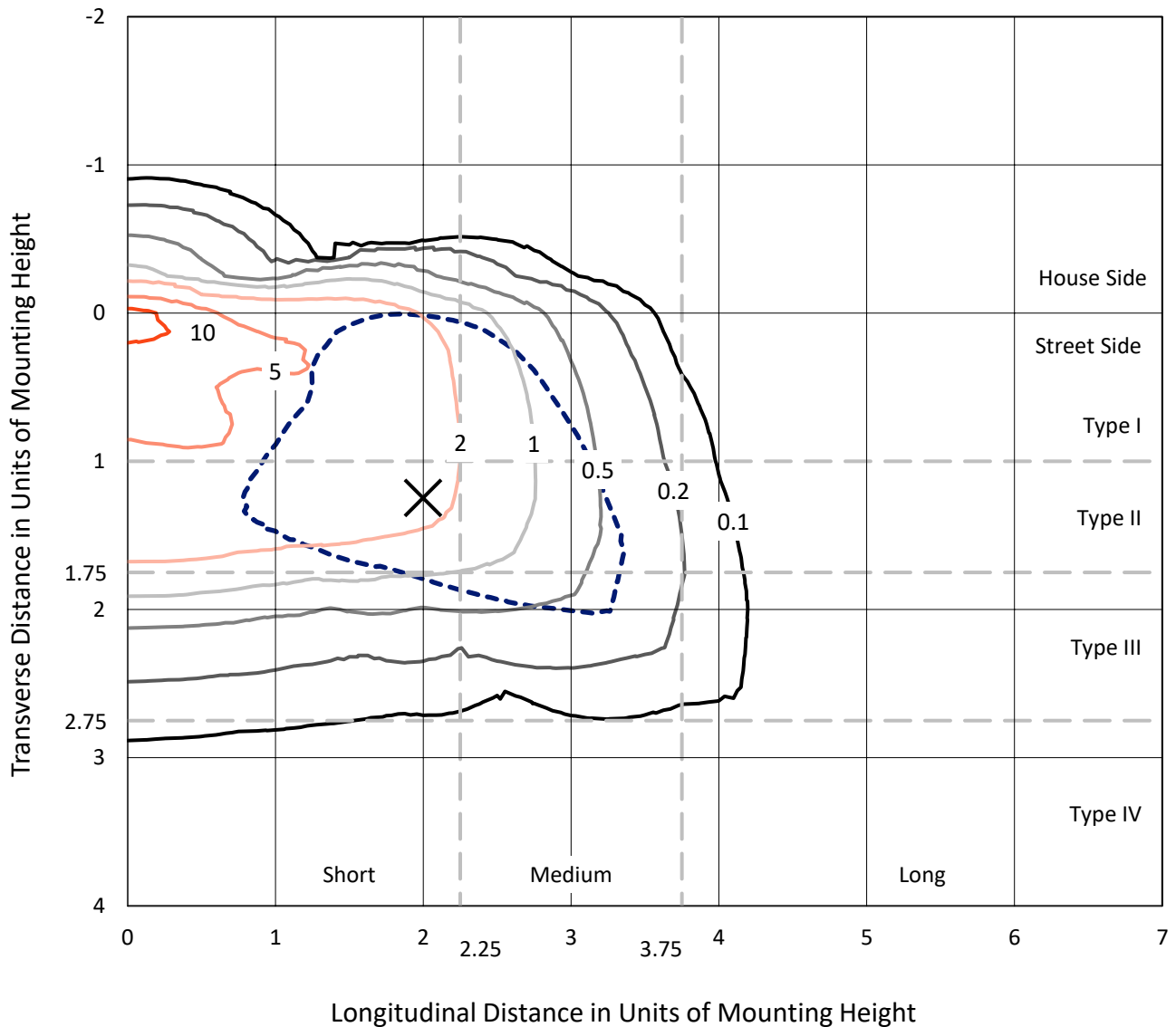
Lumens per Lamp: N/A
Luminaire Lumens: 26176.5 lumens
Efficiency: N/A
Efficacy: 120.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 217.6
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

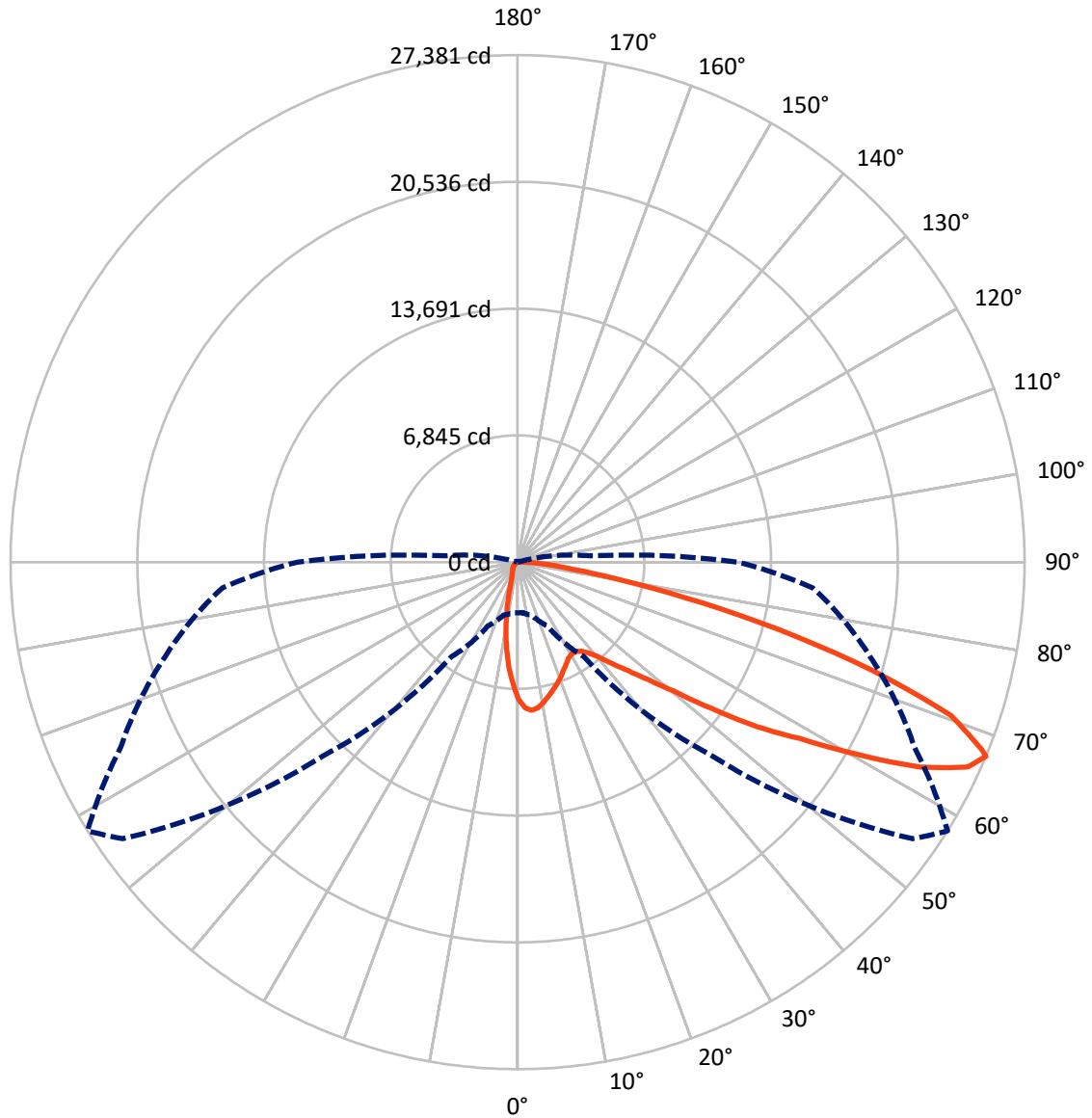
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.9 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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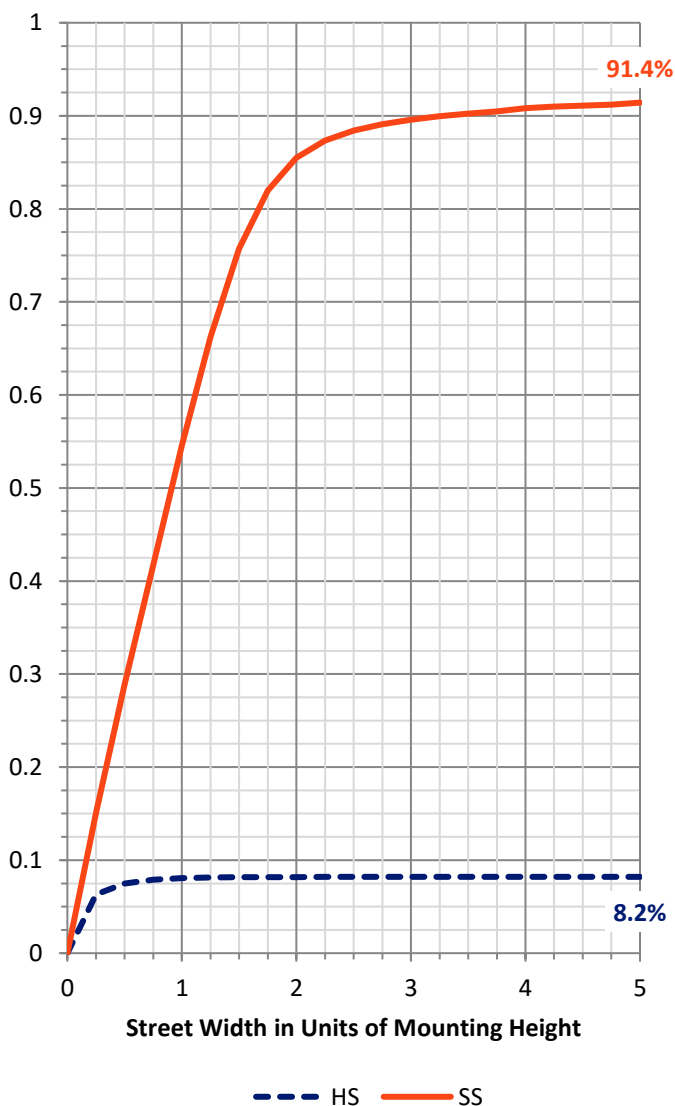
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2163.7	0.0	2163.7
	% Fixture	8.3	0.0	8.3
Street Side	Lumens	24012.8	0.0	24012.8
	% Fixture	91.7	0.0	91.7
Total	Lumens	26176.5	0.0	26176.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	588.4	2.2
10°-20°	1220.5	4.7
20°-30°	1619.4	6.2
30°-40°	2243.9	8.6
40°-50°	3661.5	14.0
50°-60°	6435.7	24.6
60°-70°	7128.0	27.2
70°-80°	2953.9	11.3
80°-90°	325.2	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°	26176.5	100.0
0°-180°	26176.5	100.0

Coefficient of Utilization

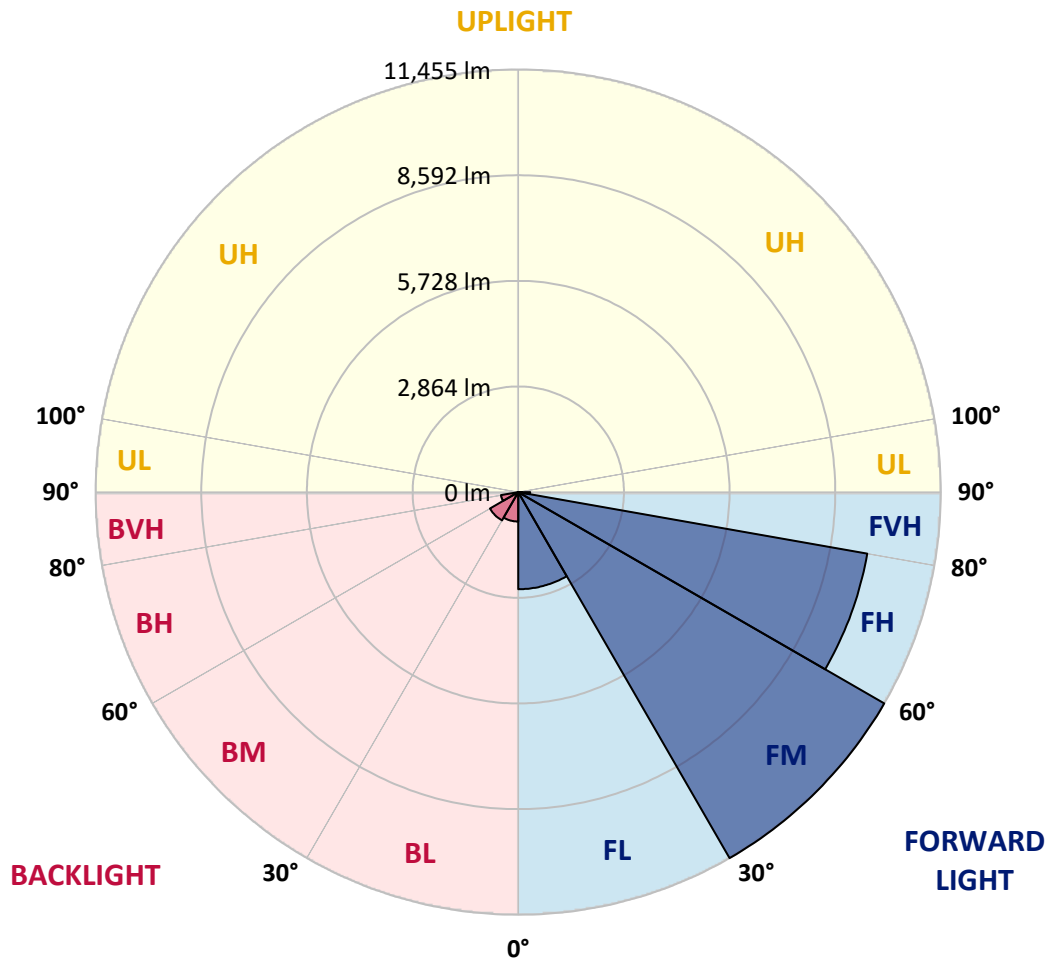


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2631.5	10.1			
FM (30°-60°)	11455.4	43.8			
FH (60°-80°)	9606.2	36.7			G4/12000
FVH (80°-90°)	319.8	1.2			G3/500
BL (0°-30°)	796.9	3.0	B2/1000		
BM (30°-60°)	885.7	3.4	B1/1000		
BH (60°-80°)	475.7	1.8	B1/500		G1/500
BVH (80°-90°)	5.3	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°	7416.2	7416.2	7416.2	7416.2	7416.2	7416.2	7416.2	7416.2	7416.2	7416.2	7416.2
2.5°	8069.5	8097.3	8121.6	8076.4	8114.7	8059.1	7916.6	7885.3	7861.0	7649.0	7527.4
5°	8066.0	8034.7	8059.1	8079.9	8027.8	8069.5	8034.7	8038.2	7944.4	7753.3	7412.7
7.5°	7527.4	7513.5	7527.4	7628.1	7742.8	7833.2	7885.3	7937.4	7874.9	7589.9	7259.8
10°	6801.0	6870.5	6908.8	7089.5	7266.7	7433.5	7596.9	7694.2	7676.8	7562.1	7093.0
12.5°	6293.7	6272.8	6411.8	6530.0	6707.2	7044.3	7329.3	7419.6	7523.9	7364.0	6874.0
15°	5824.5	5768.9	5852.3	6057.3	6359.7	6627.3	7026.9	7162.5	7294.5	7336.2	6755.9
17.5°	5376.2	5404.0	5490.9	5675.1	5960.0	6335.4	6710.7	6905.3	7221.5	7165.9	6578.6
20°	5160.7	5219.8	5251.1	5344.9	5543.0	5918.3	6477.8	6634.2	6971.3	7162.5	6404.9
22.5°	5171.2	5171.2	5098.2	5153.8	5334.5	5626.4	6161.6	6335.4	6870.5	6981.7	6248.5
25°	5282.4	5212.9	5216.3	5150.3	5226.8	5386.6	5876.6	6088.6	6665.5	6999.1	6165.1
27.5°	5365.8	5351.9	5331.0	5313.6	5216.3	5240.7	5689.0	5862.7	6585.6	6978.3	6036.5
30°	5668.1	5605.6	5584.7	5546.5	5417.9	5299.7	5539.5	5758.5	6523.0	7026.9	5963.5
32.5°	5921.8	5932.2	5949.6	5838.4	5727.2	5435.3	5581.2	5755.0	6477.8	7138.1	6036.5
35°	6241.5	6286.7	6293.7	6258.9	6140.7	5852.3	5755.0	5904.4	6554.3	7336.2	6043.4
37.5°	6728.1	6679.4	6811.5	6825.4	6742.0	6359.7	6158.1	6217.2	6780.2	7652.5	6307.6
40°	7044.3	7103.4	7350.1	7503.0	7360.5	7013.0	6742.0	6731.5	7106.9	8149.4	6634.2
42.5°	7395.3	7527.4	7798.4	8128.6	8111.2	7788.0	7513.5	7468.3	7687.2	8868.8	7152.0
45°	7874.9	7993.0	8371.8	8868.8	9139.9	8865.3	8451.8	8361.4	8392.7	9848.8	8034.7
47.5°	8670.7	8639.4	9185.0	9675.1	10119.9	9907.9	9730.7	9466.5	9442.2	11002.6	9254.6
50°	9570.8	9563.8	10050.4	10606.4	11120.8	11534.3	11238.9	10950.5	10957.4	12569.9	10689.8
52.5°	10425.7	10561.2	11086.0	11638.6	12521.3	12966.1	13251.1	13136.4	12583.8	13970.4	12225.9
55°	10877.5	10995.6	11516.9	12469.1	13862.7	15006.1	15777.6	15680.3	14613.4	15548.2	13741.1
57.5°	10450.0	10530.0	11235.4	12483.0	14801.0	17351.9	18092.1	17970.4	16712.4	16754.1	15572.5
60°	8660.3	8785.4	9834.9	11298.0	14436.1	19159.0	21278.9	21094.7	18623.8	18279.7	16750.6
62.5°	5998.3	6081.7	6943.5	8764.5	12705.5	19788.0	24288.4	24389.2	20639.4	19468.3	17101.6
65°	3885.3	3878.4	4371.8	5605.6	9004.3	17883.6	26067.7	26693.3	22585.6	19649.0	16993.9
67°	2745.4	2735.0	2967.9	3801.9	6234.6	14735.0	26036.5	27381.4	23642.0	19701.1	15996.5
67.5°	2533.4	2523.0	2745.4	3496.1	5626.4	13702.9	25647.2	27026.9	24013.9	19628.1	15558.6
70°	1967.0	1939.2	2022.6	2408.3	3277.1	8861.9	21949.6	24827.1	23242.4	17807.1	12424.0
72.5°	1421.4	1452.6	1584.7	1977.4	2571.7	4768.0	16729.8	20076.4	19412.7	13421.4	7895.7
75°	990.4	1018.2	1230.2	1612.5	2359.7	2891.4	11311.9	14561.2	13522.1	7409.2	3364.0
77.5°	517.8	552.6	785.4	1289.3	2144.2	2238.1	6759.3	9233.7	7165.9	2637.7	927.9
80°	239.8	257.2	392.7	914.0	1793.2	1967.0	3940.9	5136.4	2867.1	590.8	319.7
82.5°	104.3	114.7	180.7	524.8	1271.9	1720.2	2439.6	2693.3	1039.1	191.1	198.1
85°	20.9	24.3	69.5	278.0	615.1	1042.6	1713.3	1598.6	521.3	93.8	156.4
87.5°	0.0	0.0	17.4	79.9	166.8	309.3	726.3	726.3	159.9	48.7	59.1
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°	7416.2	7416.2	7416.2	7416.2	7416.2	7416.2	7416.2	7416.2	7416.2	7416.2	7416.2
2.5°	7419.6	7294.5	7020.0	6766.3	6585.6	6380.5	6109.5	5987.8	5942.7	5880.1	5786.3
5°	7225.0	7072.1	6602.9	6130.3	5612.5	5219.8	4802.8	4559.5	4375.3	4260.6	4222.4
7.5°	6950.5	6637.7	6005.2	5247.6	4576.9	3993.0	3360.6	2933.1	2658.6	2547.3	2443.1
10°	6731.5	6324.9	5362.3	4420.5	3527.4	2672.5	1960.0	1584.7	1299.7	1192.0	1178.1
12.5°	6446.6	5960.0	4761.1	3576.0	2453.5	1591.7	1084.3	941.8	861.9	848.0	837.5
15°	6210.2	5629.9	4191.1	2769.8	1588.2	993.9	844.5	809.7	788.9	781.9	785.4
17.5°	6050.4	5275.4	3607.3	2015.6	1046.0	813.2	778.5	757.6	747.2	743.7	733.3
20°	5734.1	4976.5	3030.4	1410.9	816.7	750.7	722.8	705.5	695.0	691.6	688.1
22.5°	5553.4	4597.7	2453.5	983.5	726.3	681.1	660.3	646.4	629.0	618.6	615.1
25°	5372.7	4319.7	1939.2	764.6	660.3	629.0	597.7	580.4	552.6	538.7	535.2
27.5°	5160.7	4045.2	1494.4	663.8	594.3	563.0	531.7	503.9	469.2	455.3	448.3
30°	5039.1	3777.6	1126.0	594.3	545.6	503.9	465.7	430.9	392.7	368.4	361.4
32.5°	4976.5	3534.3	844.5	542.1	493.5	448.3	399.7	357.9	323.2	302.3	298.9
35°	4900.1	3298.0	663.8	493.5	444.8	396.2	347.5	305.8	271.1	253.7	246.7
37.5°	4980.0	3159.0	552.6	455.3	406.6	351.0	298.9	257.2	229.4	212.0	208.5
40°	5199.0	3044.3	479.6	420.5	368.4	309.3	260.6	218.9	194.6	180.7	173.8
42.5°	5536.1	3044.3	434.4	385.8	333.6	271.1	222.4	191.1	166.8	152.9	149.4
45°	6147.7	3138.1	396.2	351.0	291.9	232.8	191.1	159.9	135.5	121.6	118.2
47.5°	7006.1	3353.6	364.9	319.7	260.6	205.0	166.8	135.5	111.2	97.3	93.8
50°	8159.9	3843.6	333.6	281.5	232.8	177.2	139.0	107.7	86.9	73.0	69.5
52.5°	9598.6	4538.7	302.3	260.6	198.1	149.4	111.2	86.9	66.0	55.6	52.1
55°	11120.8	5390.1	264.1	232.8	170.3	125.1	90.4	66.0	48.7	41.7	38.2
57.5°	12653.3	6046.9	232.8	201.6	139.0	100.8	73.0	52.1	34.8	27.8	24.3
60°	13466.5	6109.5	201.6	166.8	111.2	79.9	55.6	38.2	24.3	17.4	13.9
62.5°	13591.6	5553.4	173.8	135.5	90.4	62.6	38.2	27.8	13.9	7.0	7.0
65°	12948.7	4629.0	149.4	107.7	69.5	45.2	27.8	17.4	7.0	3.5	0.0
67°	11906.2	3878.4	128.6	90.4	55.6	34.8	20.9	10.4	3.5	0.0	0.0
67.5°	11503.0	3669.8	121.6	83.4	52.1	31.3	17.4	10.4	3.5	0.0	0.0
70°	8927.9	2620.3	90.4	59.1	38.2	24.3	13.9	7.0	0.0	0.0	0.0
72.5°	5470.0	1532.6	69.5	41.7	27.8	17.4	10.4	3.5	0.0	0.0	0.0
75°	2293.7	528.2	59.1	31.3	20.9	10.4	7.0	3.5	0.0	0.0	0.0
77.5°	597.7	198.1	41.7	20.9	13.9	10.4	7.0	3.5	0.0	0.0	0.0
80°	243.3	90.4	27.8	13.9	13.9	10.4	7.0	3.5	0.0	0.0	0.0
82.5°	159.9	41.7	17.4	13.9	10.4	7.0	3.5	0.0	0.0	0.0	0.0
85°	121.6	24.3	10.4	10.4	7.0	3.5	0.0	0.0	0.0	0.0	0.0
87.5°	52.1	13.9	10.4	7.0	7.0	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)