

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: P484460

Luminaire Tested: **IFLD-L-SA7A-750-U-SL3-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484460
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7A-750-U-SL3-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens with House Side Shield
Light Source: (112) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

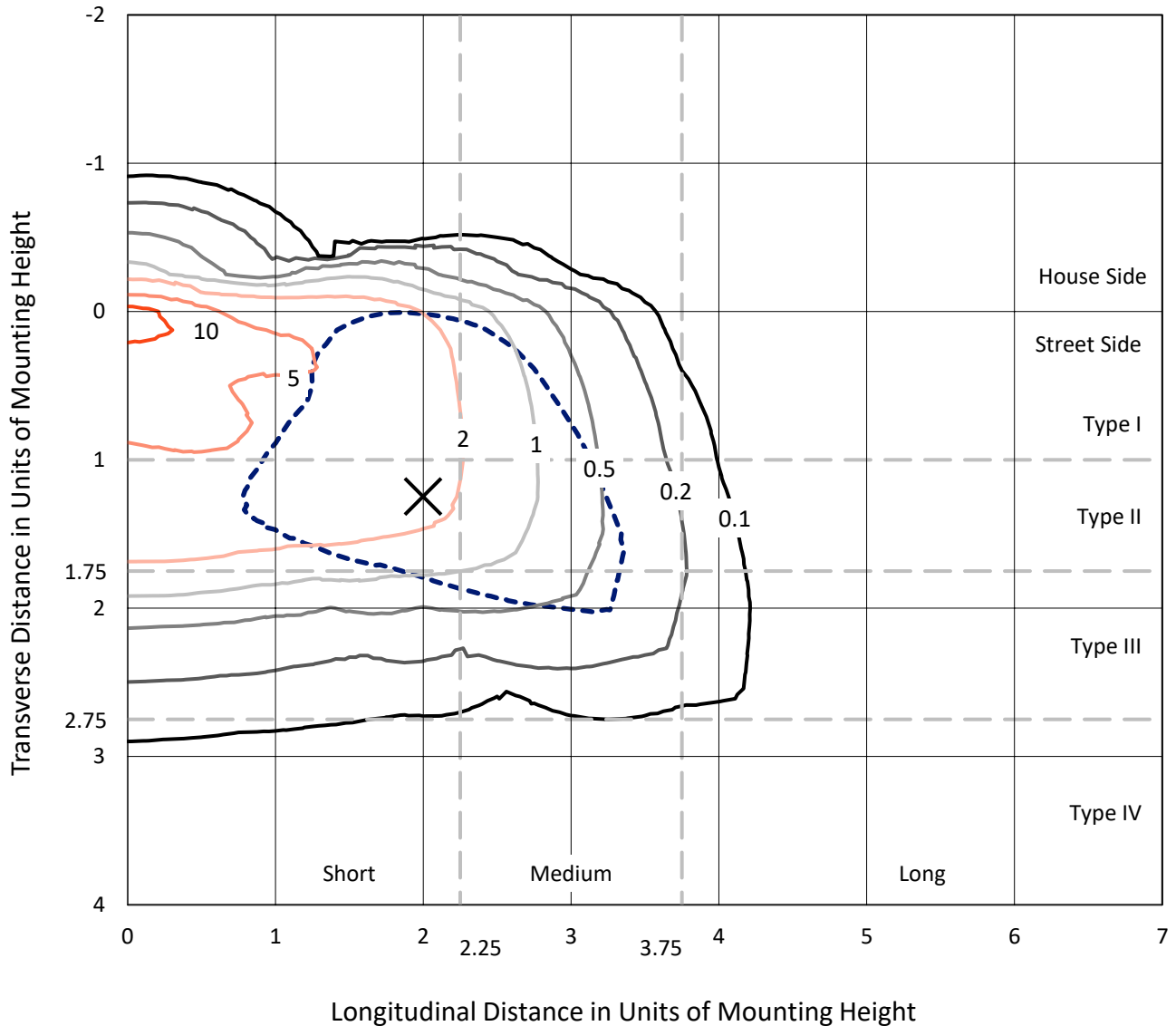
Lumens per Lamp: N/A
Luminaire Lumens: 26775.9 lumens
Efficiency: N/A
Efficacy: 123.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

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

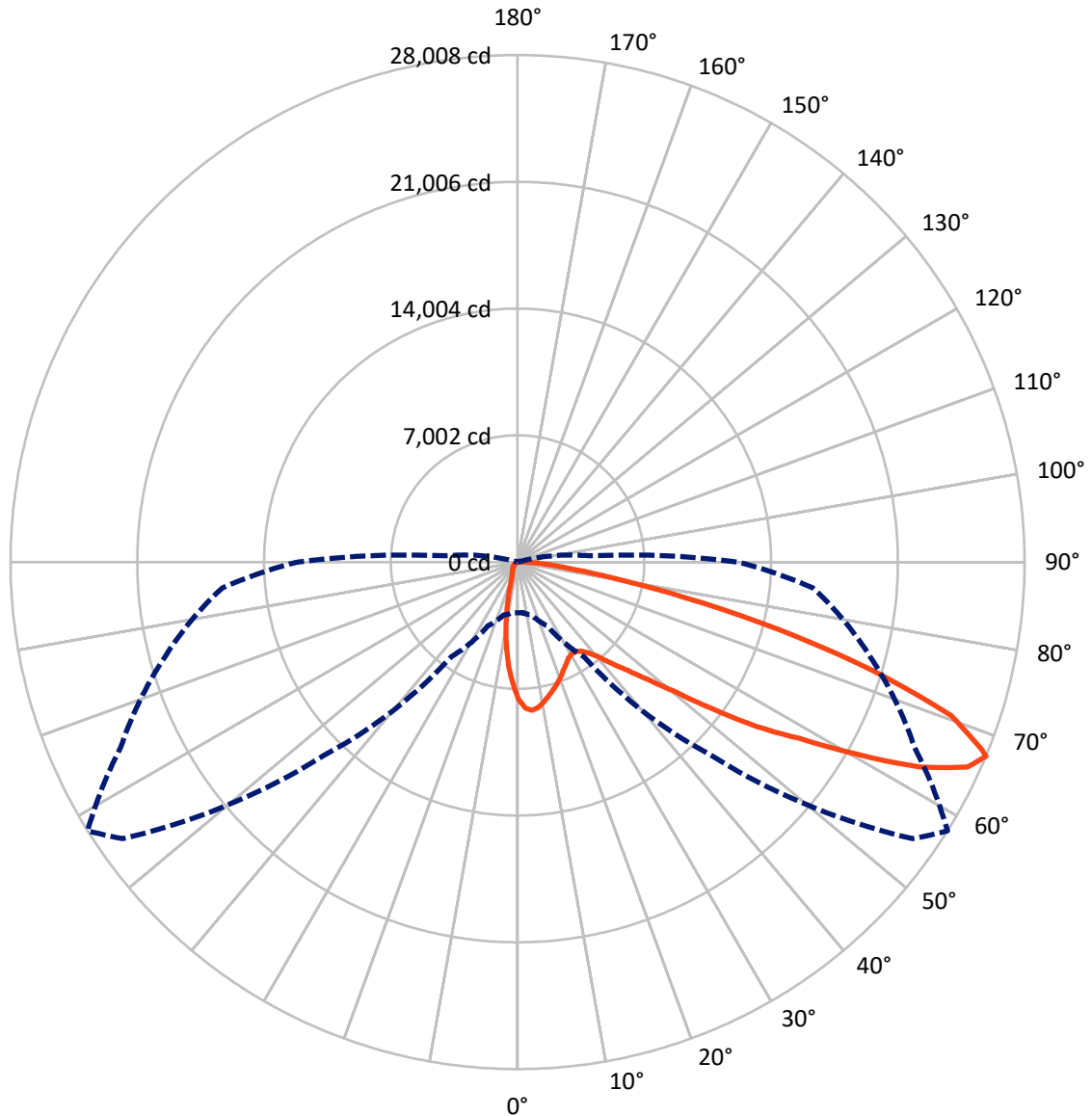
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.2 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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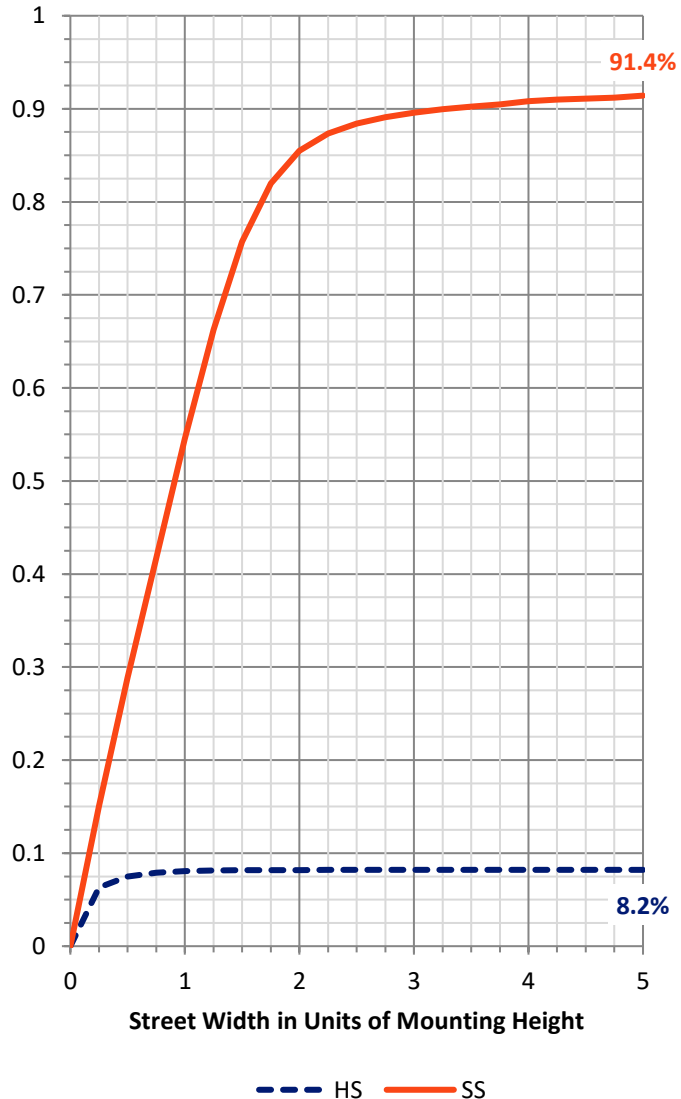
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2213.2	0.0	2213.2
	% Fixture	8.3	0.0	8.3
Street Side	Lumens	24562.7	0.0	24562.7
	% Fixture	91.7	0.0	91.7
Total	Lumens	26775.9	0.0	26775.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	601.9	2.2
10°-20°	1248.5	4.7
20°-30°	1656.5	6.2
30°-40°	2295.3	8.6
40°-50°	3745.3	14.0
50°-60°	6583.1	24.6
60°-70°	7291.3	27.2
70°-80°	3021.5	11.3
80°-90°	332.6	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°	26775.9	100.0
0°-180°	26775.9	100.0

Coefficient of Utilization



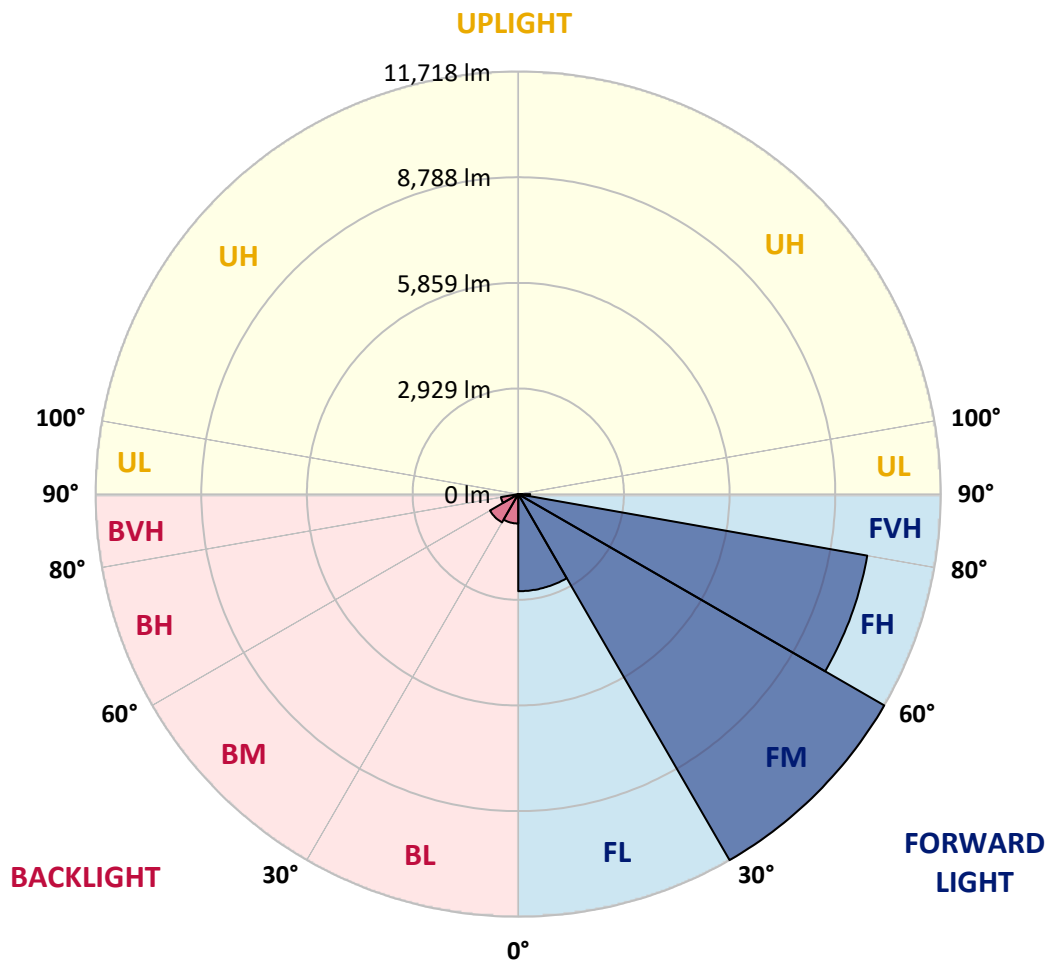
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2691.7	10.1			
FM (30°-60°)	11717.7	43.8			
FH (60°-80°)	9826.2	36.7			G4/12000
FVH (80°-90°)	327.1	1.2			G3/500
BL (0°-30°)	815.1	3.0	B2/1000		
BM (30°-60°)	906.0	3.4	B1/1000		
BH (60°-80°)	486.6	1.8	B1/500		G1/500
BVH (80°-90°)	5.5	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°	7586.0	7586.0	7586.0	7586.0	7586.0	7586.0	7586.0	7586.0	7586.0	7586.0	7586.0
2.5°	8254.3	8282.7	8307.6	8261.4	8300.5	8243.6	8097.9	8065.9	8041.0	7824.2	7699.7
5°	8250.7	8218.7	8243.6	8265.0	8211.6	8254.3	8218.7	8222.3	8126.3	7930.8	7582.4
7.5°	7699.7	7685.5	7699.7	7802.8	7920.1	8012.6	8065.9	8119.2	8055.2	7763.7	7426.0
10°	6956.8	7027.9	7067.0	7251.8	7433.1	7603.8	7770.8	7870.4	7852.6	7735.3	7255.4
12.5°	6437.8	6416.4	6558.6	6679.5	6860.8	7205.6	7497.1	7589.5	7696.2	7532.7	7031.4
15°	5957.9	5901.0	5986.3	6196.0	6505.3	6779.0	7187.8	7326.5	7461.6	7504.2	6910.6
17.5°	5499.3	5527.7	5616.6	5805.0	6096.5	6480.4	6864.4	7063.4	7386.9	7330.0	6729.3
20°	5278.9	5339.3	5371.3	5467.3	5669.9	6053.9	6626.2	6786.1	7131.0	7326.5	6551.5
22.5°	5289.6	5289.6	5214.9	5271.8	5456.6	5755.3	6302.7	6480.4	7027.9	7141.6	6391.6
25°	5403.3	5332.2	5335.8	5268.2	5346.4	5510.0	6011.2	6228.0	6818.1	7159.4	6306.2
27.5°	5488.6	5474.4	5453.1	5435.3	5335.8	5360.7	5819.2	5997.0	6736.4	7138.1	6174.7
30°	5797.9	5733.9	5712.6	5673.5	5542.0	5421.1	5666.4	5890.3	6672.4	7187.8	6100.1
32.5°	6057.4	6068.1	6085.8	5972.1	5858.3	5559.7	5709.0	5886.8	6626.2	7301.6	6174.7
35°	6384.5	6430.7	6437.8	6402.2	6281.4	5986.3	5886.8	6039.6	6704.4	7504.2	6181.8
37.5°	6882.1	6832.4	6967.4	6981.7	6896.3	6505.3	6299.1	6359.6	6935.5	7827.7	6452.0
40°	7205.6	7266.0	7518.4	7674.9	7529.1	7173.6	6896.3	6885.7	7269.6	8336.0	6786.1
42.5°	7564.7	7699.7	7977.0	8314.7	8296.9	7966.3	7685.5	7639.3	7863.3	9071.9	7315.8
45°	8055.2	8176.1	8563.6	9071.9	9349.2	9068.3	8645.3	8552.9	8584.9	10074.4	8218.7
47.5°	8869.3	8837.3	9395.4	9896.6	10351.6	10134.8	9953.5	9683.3	9658.4	11254.6	9466.5
50°	9790.0	9782.9	10280.5	10849.3	11375.4	11798.4	11496.3	11201.2	11208.3	12857.8	10934.6
52.5°	10664.5	10803.1	11339.9	11905.1	12808.0	13263.0	13554.5	13437.2	12872.0	14290.4	12505.9
55°	11126.6	11247.4	11780.7	12754.7	14180.2	15349.7	16138.9	16039.3	14948.0	15904.3	14055.8
57.5°	10689.3	10771.1	11492.7	12768.9	15140.0	17749.2	18506.4	18382.0	17095.1	17137.8	15929.1
60°	8858.6	8986.6	10060.1	11556.7	14766.7	19597.7	21766.2	21577.7	19050.3	18698.3	17134.2
62.5°	6135.6	6220.9	7102.5	8965.3	12996.4	20241.1	24844.6	24947.7	21112.1	19914.1	17493.3
65°	3974.3	3967.2	4472.0	5733.9	9210.5	18293.1	26664.7	27304.6	23102.8	20098.9	17383.1
67°	2808.3	2797.6	3035.8	3889.0	6377.3	15072.4	26632.7	28008.4	24183.4	20152.3	16362.8
67.5°	2591.5	2580.8	2808.3	3576.1	5755.3	14016.7	26234.6	27645.8	24563.8	20077.6	15914.9
70°	2012.0	1983.6	2068.9	2463.5	3352.2	9064.8	22452.2	25395.6	23774.6	18214.9	12708.5
72.5°	1453.9	1485.9	1621.0	2022.7	2630.6	4877.2	17112.9	20536.2	19857.2	13728.7	8076.5
75°	1013.1	1041.6	1258.4	1649.4	2413.7	2957.6	11570.9	14894.7	13831.8	7578.9	3441.1
77.5°	529.7	565.2	803.4	1318.8	2193.3	2289.3	6914.1	9445.2	7330.0	2698.1	949.1
80°	245.3	263.1	401.7	934.9	1834.3	2012.0	4031.2	5254.0	2932.7	604.3	327.0
82.5°	106.6	117.3	184.9	536.8	1301.1	1759.6	2495.5	2755.0	1062.9	195.5	202.6
85°	21.3	24.9	71.1	284.4	629.2	1066.4	1752.5	1635.2	533.2	96.0	160.0
87.5°	0.0	0.0	17.8	81.8	170.6	316.4	743.0	743.0	163.5	49.8	60.4
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°	7586.0	7586.0	7586.0	7586.0	7586.0	7586.0	7586.0	7586.0	7586.0	7586.0	7586.0
2.5°	7589.5	7461.6	7180.7	6921.2	6736.4	6526.6	6249.4	6125.0	6078.7	6014.8	5918.8
5°	7390.5	7234.1	6754.2	6270.7	5741.0	5339.3	4912.8	4663.9	4475.5	4358.2	4319.1
7.5°	7109.6	6789.7	6142.7	5367.8	4681.7	4084.5	3437.5	3000.3	2719.4	2605.7	2499.0
10°	6885.7	6469.8	5485.1	4521.7	3608.1	2733.7	2004.9	1621.0	1329.5	1219.3	1205.1
12.5°	6594.2	6096.5	4870.1	3657.9	2509.7	1628.1	1109.1	963.4	881.6	867.4	856.7
15°	6352.5	5758.8	4287.1	2833.2	1624.6	1016.7	863.8	828.3	806.9	799.8	803.4
17.5°	6188.9	5396.2	3689.9	2061.8	1070.0	831.8	796.3	775.0	764.3	760.7	750.1
20°	5865.5	5090.5	3099.8	1443.3	835.4	767.8	739.4	721.6	711.0	707.4	703.9
22.5°	5680.6	4703.0	2509.7	1006.0	743.0	696.7	675.4	661.2	643.4	632.8	629.2
25°	5495.7	4418.6	1983.6	782.1	675.4	643.4	611.4	593.7	565.2	551.0	547.4
27.5°	5278.9	4137.8	1528.6	679.0	607.9	575.9	543.9	515.4	479.9	465.7	458.6
30°	5154.5	3864.1	1151.8	607.9	558.1	515.4	476.3	440.8	401.7	376.8	369.7
32.5°	5090.5	3615.3	863.8	554.6	504.8	458.6	408.8	366.1	330.6	309.3	305.7
35°	5012.3	3373.5	679.0	504.8	455.0	405.2	355.5	312.8	277.3	259.5	252.4
37.5°	5094.1	3231.3	565.2	465.7	415.9	359.0	305.7	263.1	234.6	216.8	213.3
40°	5318.0	3114.0	490.6	430.1	376.8	316.4	266.6	224.0	199.1	184.9	177.7
42.5°	5662.8	3114.0	444.4	394.6	341.3	277.3	227.5	195.5	170.6	156.4	152.9
45°	6288.5	3210.0	405.2	359.0	298.6	238.2	195.5	163.5	138.6	124.4	120.9
47.5°	7166.5	3430.4	373.3	327.0	266.6	209.7	170.6	138.6	113.8	99.5	96.0
50°	8346.7	3931.6	341.3	287.9	238.2	181.3	142.2	110.2	88.9	74.7	71.1
52.5°	9818.4	4642.6	309.3	266.6	202.6	152.9	113.8	88.9	67.5	56.9	53.3
55°	11375.4	5513.5	270.2	238.2	174.2	128.0	92.4	67.5	49.8	42.7	39.1
57.5°	12943.1	6185.4	238.2	206.2	142.2	103.1	74.7	53.3	35.5	28.4	24.9
60°	13774.9	6249.4	206.2	170.6	113.8	81.8	56.9	39.1	24.9	17.8	14.2
62.5°	13902.9	5680.6	177.7	138.6	92.4	64.0	39.1	28.4	14.2	7.1	7.1
65°	13245.3	4735.0	152.9	110.2	71.1	46.2	28.4	17.8	7.1	3.6	0.0
67°	12178.8	3967.2	131.5	92.4	56.9	35.5	21.3	10.7	3.6	0.0	0.0
67.5°	11766.4	3753.9	124.4	85.3	53.3	32.0	17.8	10.7	3.6	0.0	0.0
70°	9132.3	2680.3	92.4	60.4	39.1	24.9	14.2	7.1	0.0	0.0	0.0
72.5°	5595.3	1567.7	71.1	42.7	28.4	17.8	10.7	3.6	0.0	0.0	0.0
75°	2346.2	540.3	60.4	32.0	21.3	10.7	7.1	3.6	0.0	0.0	0.0
77.5°	611.4	202.6	42.7	21.3	14.2	10.7	7.1	3.6	0.0	0.0	0.0
80°	248.8	92.4	28.4	14.2	14.2	10.7	7.1	3.6	0.0	0.0	0.0
82.5°	163.5	42.7	17.8	14.2	10.7	7.1	3.6	0.0	0.0	0.0	0.0
85°	124.4	24.9	10.7	10.7	7.1	3.6	0.0	0.0	0.0	0.0	0.0
87.5°	53.3	14.2	10.7	7.1	7.1	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)