

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: P484736

Luminaire Tested: **IFLD-L-SA7D-730-U-SL4-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484736
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7D-730-U-SL4-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens with House Side Shield
Light Source: (112) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

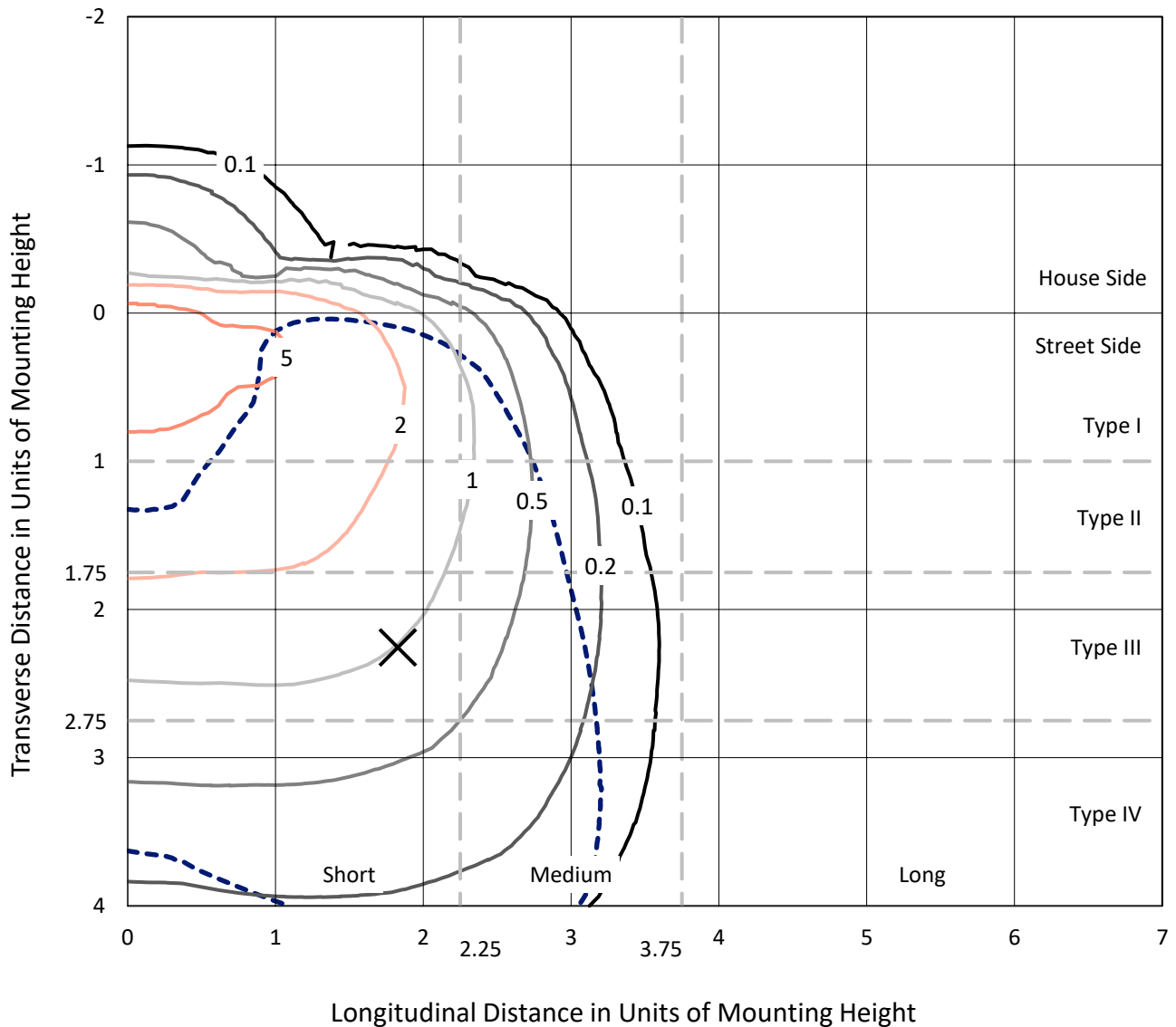
Lumens per Lamp: N/A
Luminaire Lumens: 36694.7 lumens
Efficiency: N/A
Efficacy: 86.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

Input Watts (W): 422.6
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

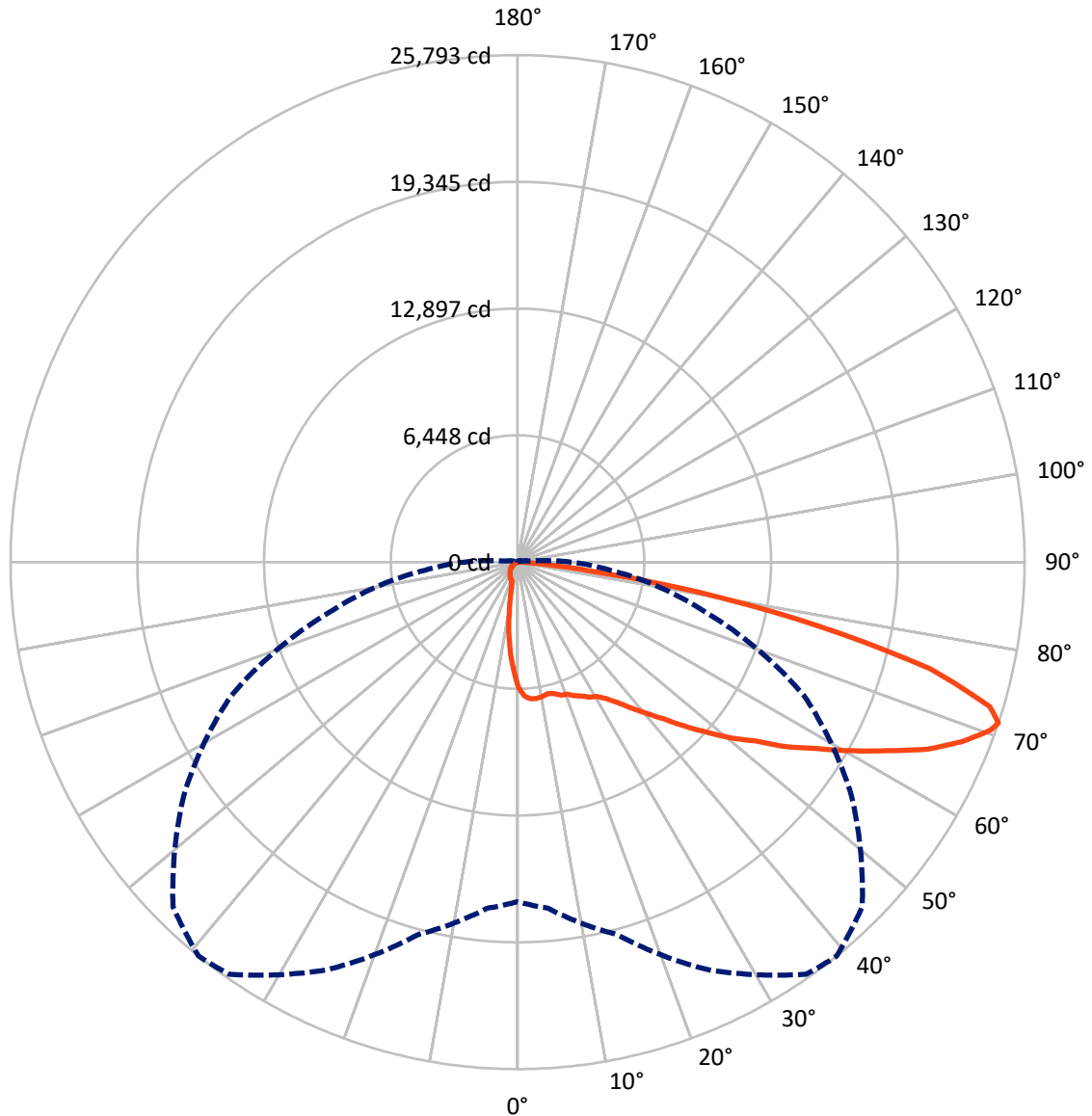
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.7 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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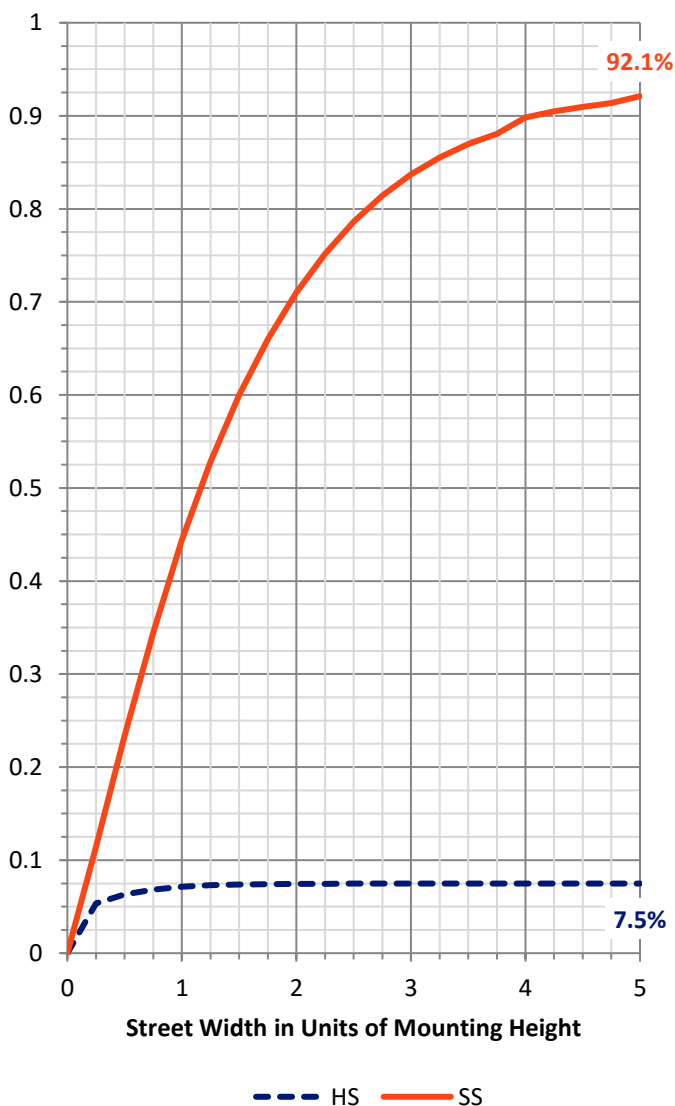
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2762.5	0.0	2762.5
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	33932.1	0.0	33932.1
	% Fixture	92.5	0.0	92.5
Total	Lumens	36694.7	0.0	36694.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	534.0	1.5
10°-20°	1314.3	3.6
20°-30°	2109.9	5.8
30°-40°	3229.8	8.8
40°-50°	5184.4	14.1
50°-60°	7615.1	20.8
60°-70°	9590.9	26.1
70°-80°	6400.8	17.4
80°-90°	715.3	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°	36694.7	100.0
0°-180°	36694.7	100.0

Coefficient of Utilization



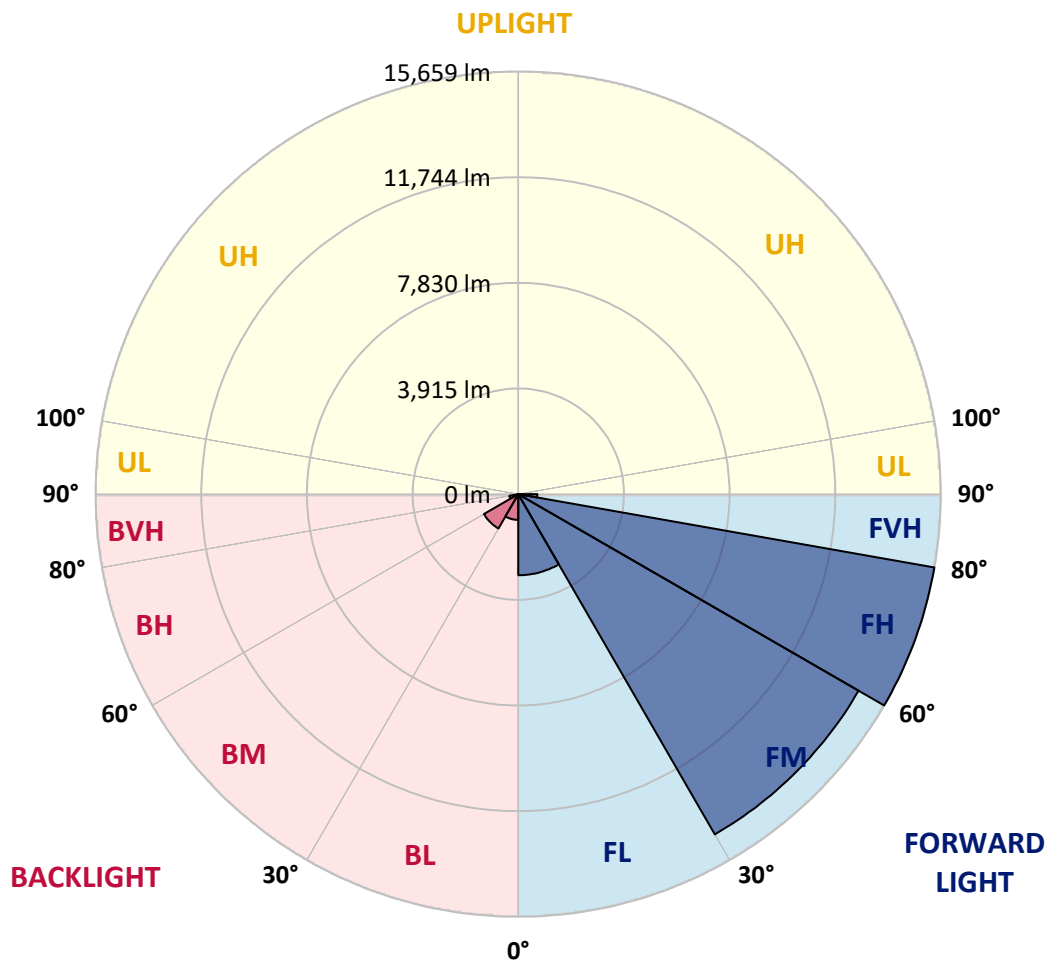
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3004.5	8.2			
FM (30°-60°)	14561.0	39.7			
FH (60°-80°)	15659.2	42.7			G5
FVH (80°-90°)	707.4	1.9			G4/750
BL (0°-30°)	953.8	2.6	B2/1000		
BM (30°-60°)	1468.4	4.0	B2/2500		
BH (60°-80°)	332.5	0.9	B1/500		G1/500
BVH (80°-90°)	7.9	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-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	6386.9	6386.9	6386.9	6386.9	6386.9	6386.9	6386.9	6386.9	6386.9	6386.9	6386.9
2.5°	6882.7	6950.1	6882.7	6853.8	6824.9	6829.7	6752.7	6767.2	6675.7	6555.4	6459.1
5°	7099.3	7190.7	7118.5	7084.8	7080.0	6988.6	6950.1	6858.6	6747.9	6560.2	6444.7
7.5°	7080.0	7060.8	7094.5	7065.6	7003.0	7003.0	6959.7	6829.7	6719.0	6507.3	6309.9
10°	6935.6	6993.4	6964.5	6930.8	6945.3	6950.1	6868.2	6776.8	6743.1	6531.3	6208.9
12.5°	6921.2	6824.9	6930.8	6935.6	6873.1	6868.2	6858.6	6834.6	6728.7	6536.1	6232.9
15°	6873.1	6834.6	6940.4	6945.3	6959.7	6945.3	6959.7	6940.4	6834.6	6723.9	6338.8
17.5°	6911.6	6868.2	7017.5	7089.6	7056.0	7123.3	7099.3	7012.6	6921.2	6791.2	6439.9
20°	6921.2	6983.8	7147.4	7176.3	7282.2	7171.5	7166.7	7075.2	7017.5	6877.9	6502.5
22.5°	7099.3	7128.2	7330.3	7392.9	7397.7	7383.2	7262.9	7157.0	7133.0	6959.7	6516.9
25°	7368.8	7469.9	7561.3	7599.8	7614.3	7546.9	7421.8	7287.0	7229.2	7118.5	6666.1
27.5°	7845.3	7782.7	7864.6	7922.3	7758.7	7782.7	7623.9	7508.4	7426.6	7330.3	6839.4
30°	8268.9	8211.1	8215.9	8206.3	8066.7	7936.7	7893.4	7691.3	7590.2	7628.7	7108.9
32.5°	8649.1	8523.9	8629.8	8581.7	8321.8	8283.3	8249.6	7994.5	8013.8	8191.8	7513.2
35°	9000.4	8957.1	9043.8	8957.1	8783.8	8774.2	8740.5	8519.1	8625.0	8880.1	8206.3
37.5°	9322.9	9337.4	9443.2	9399.9	9414.4	9424.0	9404.7	9168.9	9472.1	10044.9	9014.9
40°	9621.3	9602.1	9862.0	9996.7	10025.6	10131.5	10131.5	10073.8	10540.6	11185.6	10136.3
42.5°	9939.0	9987.1	10324.0	10550.2	10824.6	10916.0	11041.2	11070.1	11792.0	12528.4	11281.8
45°	10458.8	10377.0	10805.3	11339.6	11580.2	11902.7	12095.2	12258.9	13130.0	14140.8	12427.3
47.5°	11118.2	10954.5	11330.0	12104.9	12663.2	12927.9	13274.4	13491.0	14342.9	15387.4	13510.3
50°	11849.8	11681.3	11864.2	12932.7	13582.5	14063.8	14506.6	14780.9	15810.9	16783.2	14299.6
52.5°	12677.6	12523.6	12552.5	13794.3	14752.1	15103.4	15685.8	16094.9	17120.1	17625.5	14578.8
55°	13558.4	13519.9	13428.5	14636.5	15777.2	16566.6	16917.9	17408.9	18462.9	18082.7	14882.0
57.5°	14444.0	14323.7	14453.6	15753.2	17423.3	17895.0	18381.1	18674.7	19209.0	18482.2	14766.5
60°	15276.7	15286.3	15469.2	16966.1	18823.9	19492.9	19930.9	19752.8	19974.2	18655.5	14501.8
62.5°	15979.4	15960.1	16422.2	18328.2	20676.9	21129.4	21456.7	20662.5	20330.4	18823.9	14039.7
65°	16609.9	16826.5	17553.3	19950.2	22419.3	22939.1	22741.7	21524.0	20676.9	18328.2	12740.2
67.5°	17086.4	17408.9	18669.9	21475.9	24017.2	24383.0	24108.7	22178.6	20267.8	16383.7	10377.0
70°	17365.5	17692.8	19468.9	22746.6	25292.7	25557.4	24912.4	21673.2	17880.5	11864.2	6473.6
71°	17278.9	17678.4	19622.9	22881.3	25595.9	25793.2	24792.1	20739.5	16080.5	9934.2	4721.6
72.5°	16494.4	16869.8	18982.7	22785.1	25230.1	25109.8	23853.6	18496.6	12658.4	6334.0	2440.2
75°	12119.3	12523.6	16292.2	19709.5	22520.3	21692.5	19305.2	12980.8	6603.5	1939.7	712.3
77.5°	6035.6	6103.0	10112.3	14309.3	16518.4	15695.4	12937.5	7238.9	2469.1	572.8	356.2
80°	2782.0	2801.2	3792.7	7412.1	9987.1	9399.9	7248.5	3571.3	1116.6	303.2	279.2
82.5°	1896.3	1925.2	2286.2	3070.7	4336.6	3657.9	2936.0	2286.2	640.1	182.9	274.3
85°	346.5	317.7	1280.3	1626.8	1674.9	1135.9	1015.6	1978.2	240.7	105.9	240.7
87.5°	0.0	4.8	178.1	664.2	596.8	264.7	346.5	481.3	24.1	33.7	43.3
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°	6386.9	6386.9	6386.9	6386.9	6386.9	6386.9	6386.9	6386.9	6386.9	6386.9	6386.9
2.5°	6377.3	6324.4	6146.3	5949.0	5770.9	5631.3	5453.2	5371.4	5241.4	5169.2	5164.4
5°	6285.9	6141.5	5833.4	5501.3	5130.7	4822.7	4481.0	4288.4	4067.0	3999.7	3985.2
7.5°	6131.8	5924.9	5472.5	5005.6	4437.6	3893.8	3475.0	3027.4	2753.1	2637.6	2594.2
10°	6035.6	5785.3	5169.2	4471.3	3677.2	2911.9	2324.7	1848.2	1597.9	1477.6	1448.7
12.5°	6035.6	5766.1	4923.8	3961.2	2907.1	1992.6	1439.1	1164.8	1082.9	1054.1	1054.1
15°	6021.1	5727.6	4687.9	3436.5	2151.4	1338.0	1073.3	1015.6	1005.9	1001.1	996.3
17.5°	6093.3	5660.2	4447.3	2873.4	1520.9	1054.1	986.7	977.1	967.4	967.4	957.8
20°	6146.3	5621.7	4158.5	2276.6	1135.9	977.1	948.2	933.7	928.9	924.1	933.7
22.5°	6103.0	5563.9	3802.3	1703.8	991.5	928.9	909.7	895.2	885.6	885.6	890.4
25°	6184.8	5511.0	3446.2	1285.1	928.9	885.6	866.4	856.7	851.9	847.1	837.5
27.5°	6295.5	5535.0	3022.6	1034.8	876.0	842.3	823.0	813.4	808.6	799.0	808.6
30°	6430.3	5530.2	2555.7	904.9	827.8	794.2	774.9	770.1	760.5	755.7	760.5
32.5°	6661.3	5655.4	2074.4	837.5	774.9	746.0	726.8	722.0	717.1	712.3	707.5
35°	7157.0	5809.4	1622.0	784.5	726.8	693.1	678.6	669.0	664.2	659.4	654.6
37.5°	7768.3	6151.1	1237.0	736.4	678.6	645.0	630.5	625.7	606.4	601.6	596.8
40°	8533.6	6516.9	953.0	683.5	635.3	601.6	587.2	572.8	548.7	539.1	529.4
42.5°	9486.6	6873.1	784.5	635.3	587.2	563.1	539.1	515.0	495.7	476.5	466.9
45°	10439.5	7287.0	688.3	592.0	548.7	519.8	500.6	466.9	433.2	404.3	399.5
47.5°	11233.7	7436.2	630.5	543.9	510.2	486.1	457.2	413.9	365.8	336.9	332.1
50°	11825.7	7349.6	572.8	495.7	466.9	442.8	404.3	351.4	303.2	274.3	264.7
52.5°	11941.2	6969.3	519.8	457.2	423.5	394.7	351.4	293.6	240.7	211.8	207.0
55°	11859.4	6338.8	476.5	423.5	385.0	341.7	293.6	235.8	187.7	158.8	154.0
57.5°	11690.9	5592.8	428.4	380.2	336.9	293.6	240.7	192.5	139.6	110.7	110.7
60°	11118.2	4577.2	380.2	332.1	288.8	250.3	197.3	139.6	96.3	72.2	67.4
62.5°	10319.2	3518.4	332.1	284.0	250.3	207.0	154.0	101.1	57.8	38.5	38.5
65°	8860.9	2464.3	279.2	235.8	207.0	168.5	115.5	62.6	33.7	14.4	14.4
67.5°	6733.5	1525.7	231.0	197.3	178.1	134.8	81.8	38.5	14.4	4.8	0.0
70°	3864.9	794.2	182.9	158.8	139.6	101.1	57.8	19.3	9.6	0.0	0.0
71°	2700.1	587.2	163.6	139.6	125.1	91.4	48.1	14.4	4.8	0.0	0.0
72.5°	1352.5	389.9	139.6	115.5	101.1	72.2	38.5	14.4	4.8	0.0	0.0
75°	481.3	250.3	96.3	77.0	72.2	52.9	24.1	9.6	4.8	0.0	0.0
77.5°	332.1	202.1	67.4	48.1	48.1	33.7	14.4	4.8	4.8	0.0	0.0
80°	303.2	110.7	43.3	28.9	24.1	19.3	9.6	4.8	0.0	0.0	0.0
82.5°	303.2	81.8	24.1	19.3	14.4	9.6	4.8	0.0	0.0	0.0	0.0
85°	211.8	43.3	14.4	14.4	9.6	4.8	0.0	0.0	0.0	0.0	0.0
87.5°	33.7	14.4	9.6	4.8	4.8	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)