

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: P484546

Luminaire Tested: **IFLD-L-SA8D-827-U-SL3-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484546
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8D-827-U-SL3-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens with House Side Shield
Light Source: (128) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

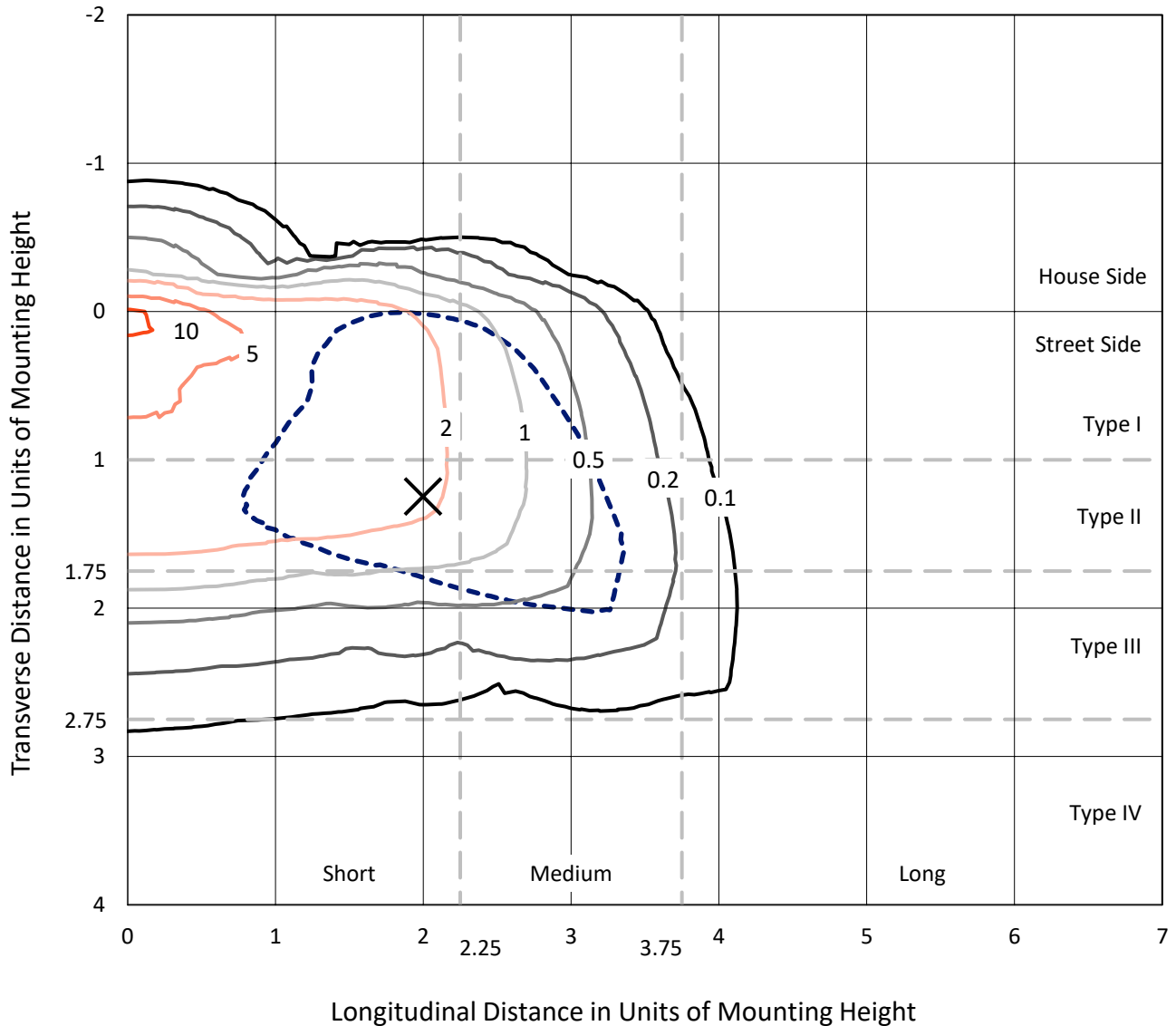
Lumens per Lamp: N/A
Luminaire Lumens: 34271.4 lumens
Efficiency: N/A
Efficacy: 70.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 488.3
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

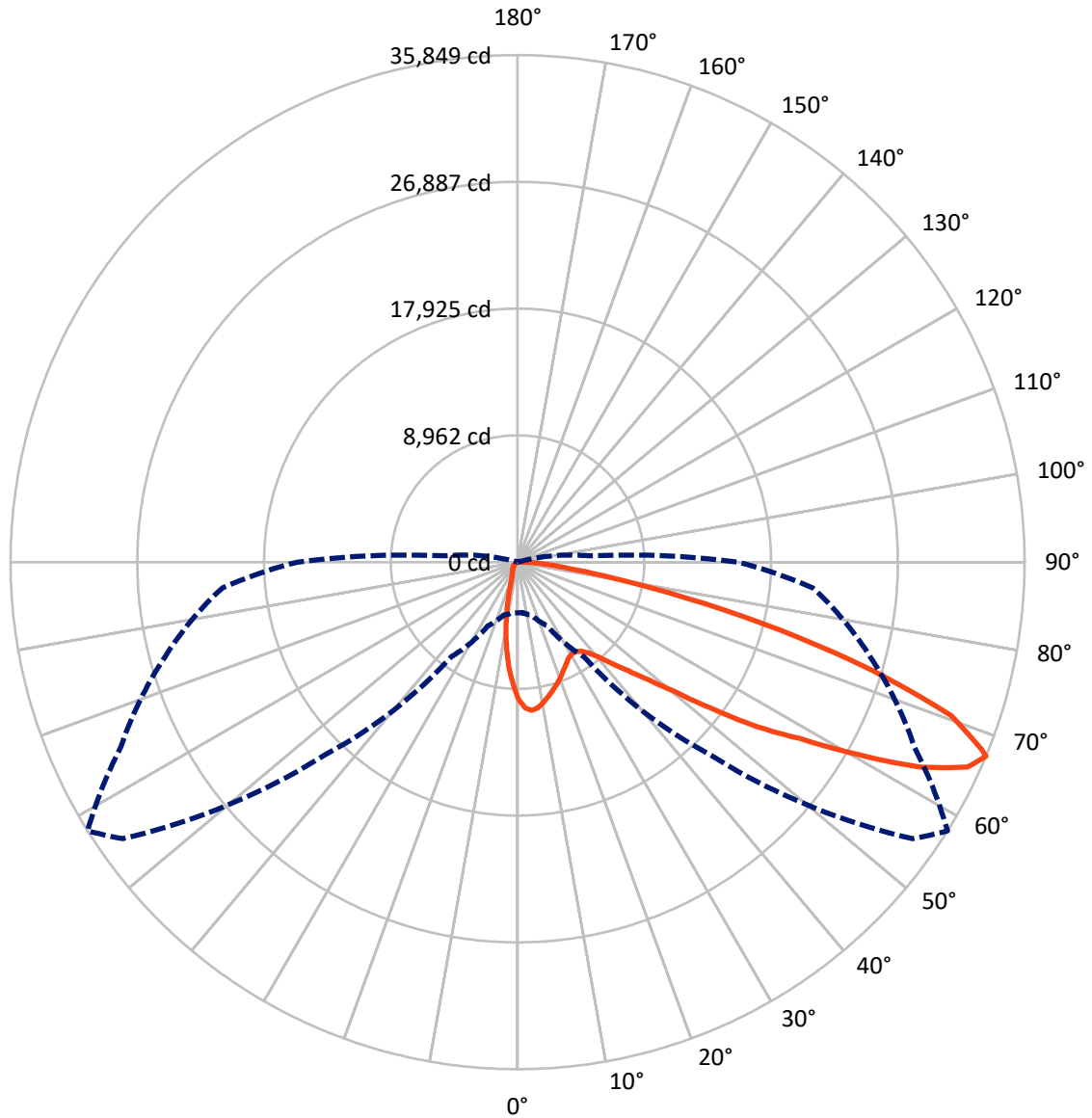
× Max cd
 - - - 1/2 Max cd



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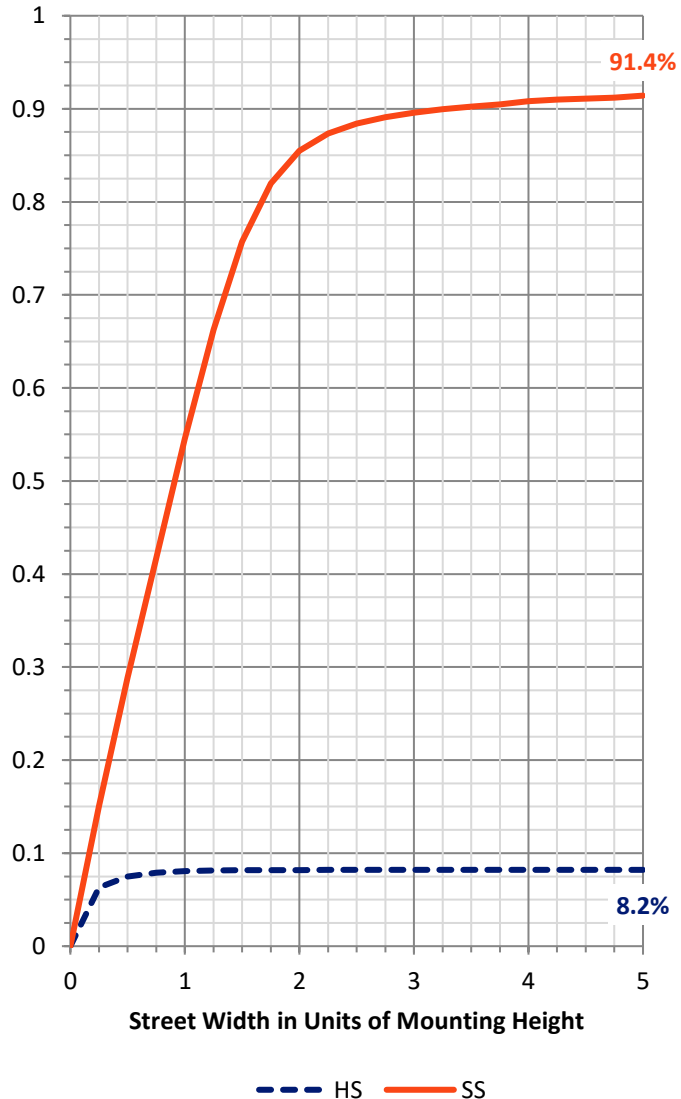
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2832.7	0.0	2832.7
	% Fixture	8.3	0.0	8.3
Street Side	Lumens	31438.7	0.0	31438.7
	% Fixture	91.7	0.0	91.7
Total	Lumens	34271.4	0.0	34271.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	770.4	2.2
10°-20°	1598.0	4.7
20°-30°	2120.2	6.2
30°-40°	2937.9	8.6
40°-50°	4793.7	14.0
50°-60°	8425.9	24.6
60°-70°	9332.3	27.2
70°-80°	3867.3	11.3
80°-90°	425.7	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°	34271.4	100.0
0°-180°	34271.4	100.0

Coefficient of Utilization



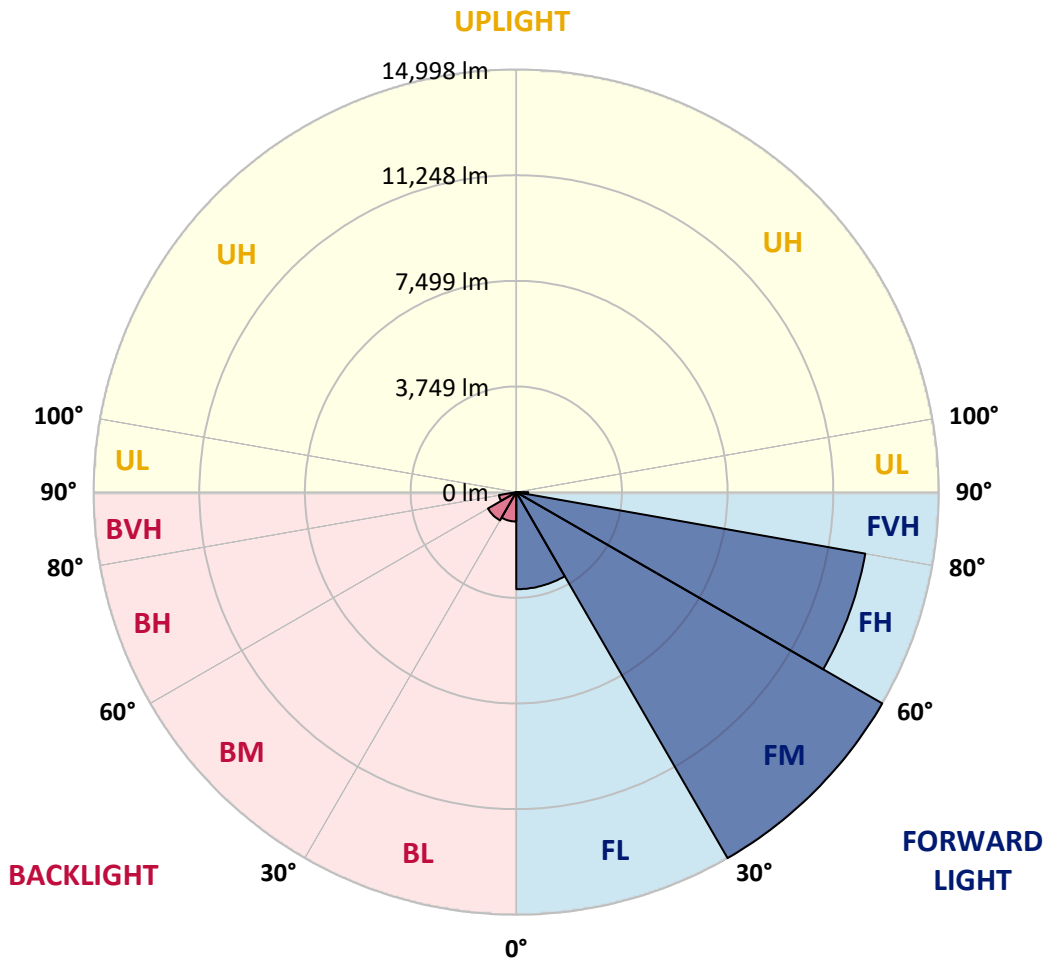
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3445.2	10.1			
FM (30°-60°)	14997.9	43.8			
FH (60°-80°)	12576.9	36.7			G5
FVH (80°-90°)	418.7	1.2			G3/500
BL (0°-30°)	1043.3	3.0	B3/2500		
BM (30°-60°)	1159.6	3.4	B2/2500		
BH (60°-80°)	622.8	1.8	B2/1000		G2/1000
BVH (80°-90°)	7.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	9709.6	9709.6	9709.6	9709.6	9709.6	9709.6	9709.6	9709.6	9709.6	9709.6	9709.6
2.5°	10565.0	10601.4	10633.2	10574.1	10624.1	10551.3	10364.8	10323.8	10292.0	10014.4	9855.2
5°	10560.4	10519.5	10551.3	10578.6	10510.4	10565.0	10519.5	10524.0	10401.2	10150.9	9705.0
7.5°	9855.2	9837.0	9855.2	9987.1	10137.3	10255.6	10323.8	10392.1	10310.2	9937.1	9504.8
10°	8904.2	8995.2	9045.3	9281.9	9513.9	9732.3	9946.2	10073.6	10050.8	9900.7	9286.4
12.5°	8239.9	8212.6	8394.6	8549.3	8781.4	9222.7	9595.8	9714.1	9850.6	9641.3	8999.8
15°	7625.7	7552.9	7662.1	7930.5	8326.4	8676.7	9200.0	9377.4	9550.3	9604.9	8845.1
17.5°	7038.8	7075.2	7188.9	7430.1	7803.1	8294.5	8785.9	9040.7	9454.8	9382.0	8613.0
20°	6756.7	6834.0	6875.0	6997.8	7257.2	7748.5	8481.1	8685.8	9127.2	9377.4	8385.5
22.5°	6770.3	6770.3	6674.8	6747.6	6984.2	7366.4	8067.0	8294.5	8995.2	9140.8	8180.8
25°	6915.9	6824.9	6829.5	6743.0	6843.1	7052.4	7693.9	7971.5	8726.8	9163.6	8071.6
27.5°	7025.1	7006.9	6979.6	6956.9	6829.5	6861.3	7448.3	7675.7	8622.1	9136.3	7903.2
30°	7421.0	7339.1	7311.8	7261.7	7093.4	6938.7	7252.6	7539.3	8540.2	9200.0	7807.7
32.5°	7753.1	7766.7	7789.5	7643.9	7498.3	7116.1	7307.2	7534.7	8481.1	9345.6	7903.2
35°	8171.7	8230.8	8239.9	8194.4	8039.7	7662.1	7534.7	7730.3	8581.2	9604.9	7912.3
37.5°	8808.7	8745.0	8917.9	8936.1	8826.9	8326.4	8062.5	8139.8	8876.9	10019.0	8258.1
40°	9222.7	9300.1	9623.1	9823.3	9636.8	9181.8	8826.9	8813.2	9304.6	10669.6	8685.8
42.5°	9682.3	9855.2	10210.1	10642.3	10619.6	10196.4	9837.0	9777.8	10064.5	11611.4	9363.8
45°	10310.2	10464.9	10960.8	11611.4	11966.3	11606.9	11065.5	10947.2	10988.1	12894.5	10519.5
47.5°	11352.1	11311.2	12025.5	12667.0	13249.4	12971.9	12739.8	12394.0	12362.2	14405.1	12116.5
50°	12530.5	12521.4	13158.4	13886.4	14559.8	15101.3	14714.5	14336.9	14346.0	16457.1	13995.6
52.5°	13649.8	13827.3	14514.3	15237.7	16393.4	16975.8	17348.9	17198.8	16475.3	18290.8	16006.7
55°	14241.3	14396.0	15078.5	16325.2	18149.7	19646.6	20656.7	20529.3	19132.5	20356.4	17990.5
57.5°	13681.7	13786.3	14710.0	16343.4	19378.2	22717.9	23687.0	23527.7	21880.7	21935.3	20388.3
60°	11338.5	11502.2	12876.3	14791.9	18900.5	25083.8	27859.3	27618.1	24383.1	23932.7	21930.7
62.5°	7853.2	7962.4	9090.8	11474.9	16634.6	25907.4	31799.5	31931.5	27022.1	25488.8	22390.3
65°	5086.8	5077.7	5723.8	7339.1	11788.9	23414.0	34129.1	34948.1	29570.1	25725.4	22249.2
67°	3594.5	3580.8	3885.6	4977.6	8162.6	19291.7	34088.2	35849.0	30953.2	25793.6	20943.4
67.5°	3316.9	3303.3	3594.5	4577.2	7366.4	17940.4	33578.6	35384.9	31440.1	25698.1	20370.1
70°	2575.3	2538.9	2648.1	3153.1	4290.6	11602.3	28737.4	32504.8	30430.0	23313.9	16266.0
72.5°	1860.9	1901.9	2074.8	2588.9	3367.0	6242.5	21903.4	26285.0	25416.0	17571.9	10337.5
75°	1296.7	1333.1	1610.7	2111.2	3089.4	3785.6	14810.1	19064.2	17703.8	9700.5	4404.3
77.5°	677.9	723.4	1028.3	1688.0	2807.3	2930.2	8849.6	12089.2	9382.0	3453.4	1214.8
80°	313.9	336.7	514.1	1196.6	2347.8	2575.3	5159.6	6724.8	3753.7	773.5	418.6
82.5°	136.5	150.1	236.6	687.0	1665.3	2252.2	3194.1	3526.2	1360.4	250.2	259.3
85°	27.3	31.8	91.0	364.0	805.3	1365.0	2243.1	2093.0	682.5	122.8	204.7
87.5°	0.0	0.0	22.7	104.6	218.4	404.9	950.9	950.9	209.3	63.7	77.3
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°	9709.6	9709.6	9709.6	9709.6	9709.6	9709.6	9709.6	9709.6	9709.6	9709.6	9709.6
2.5°	9714.1	9550.3	9190.9	8858.7	8622.1	8353.7	7998.8	7839.5	7780.4	7698.5	7575.7
5°	9459.3	9259.1	8644.9	8026.1	7348.2	6834.0	6288.0	5969.5	5728.4	5578.2	5528.2
7.5°	9099.9	8690.4	7862.3	6870.4	5992.3	5227.9	4399.8	3840.1	3480.7	3335.1	3198.6
10°	8813.2	8280.9	7020.6	5787.5	4618.2	3498.9	2566.2	2074.8	1701.7	1560.6	1542.4
12.5°	8440.1	7803.1	6233.4	4681.9	3212.3	2083.9	1419.6	1233.0	1128.4	1110.2	1096.5
15°	8130.7	7370.9	5487.2	3626.3	2079.3	1301.3	1105.6	1060.1	1032.8	1023.7	1028.3
17.5°	7921.4	6906.8	4722.8	2639.0	1369.5	1064.7	1019.2	991.9	978.2	973.7	960.0
20°	7507.4	6515.5	3967.5	1847.3	1069.2	982.8	946.4	923.6	910.0	905.4	900.9
22.5°	7270.8	6019.6	3212.3	1287.6	950.9	891.8	864.5	846.3	823.5	809.9	805.3
25°	7034.2	5655.6	2538.9	1001.0	864.5	823.5	782.6	759.8	723.4	705.2	700.7
27.5°	6756.7	5296.1	1956.5	869.0	778.0	737.1	696.1	659.7	614.2	596.0	586.9
30°	6597.4	4945.8	1474.2	778.0	714.3	659.7	609.7	564.2	514.1	482.3	473.2
32.5°	6515.5	4627.3	1105.6	709.8	646.1	586.9	523.2	468.6	423.1	395.8	391.3
35°	6415.4	4317.9	869.0	646.1	582.4	518.7	455.0	400.4	354.9	332.1	323.0
37.5°	6520.1	4135.9	723.4	596.0	532.3	459.5	391.3	336.7	300.3	277.5	273.0
40°	6806.7	3985.7	627.9	550.5	482.3	404.9	341.2	286.6	254.8	236.6	227.5
42.5°	7248.1	3985.7	568.7	505.0	436.8	354.9	291.2	250.2	218.4	200.2	195.6
45°	8048.8	4108.6	518.7	459.5	382.2	304.8	250.2	209.3	177.4	159.2	154.7
47.5°	9172.7	4390.7	477.7	418.6	341.2	268.4	218.4	177.4	145.6	127.4	122.8
50°	10683.3	5032.2	436.8	368.5	304.8	232.0	182.0	141.0	113.7	95.5	91.0
52.5°	12566.9	5942.2	395.8	341.2	259.3	195.6	145.6	113.7	86.4	72.8	68.2
55°	14559.8	7057.0	345.8	304.8	222.9	163.8	118.3	86.4	63.7	54.6	50.0
57.5°	16566.3	7916.9	304.8	263.9	182.0	131.9	95.5	68.2	45.5	36.4	31.8
60°	17631.0	7998.8	263.9	218.4	145.6	104.6	72.8	50.0	31.8	22.7	18.2
62.5°	17794.8	7270.8	227.5	177.4	118.3	81.9	50.0	36.4	18.2	9.1	9.1
65°	16953.1	6060.5	195.6	141.0	91.0	59.1	36.4	22.7	9.1	4.5	0.0
67°	15588.1	5077.7	168.3	118.3	72.8	45.5	27.3	13.6	4.5	0.0	0.0
67.5°	15060.3	4804.7	159.2	109.2	68.2	40.9	22.7	13.6	4.5	0.0	0.0
70°	11688.8	3430.7	118.3	77.3	50.0	31.8	18.2	9.1	0.0	0.0	0.0
72.5°	7161.6	2006.5	91.0	54.6	36.4	22.7	13.6	4.5	0.0	0.0	0.0
75°	3003.0	691.6	77.3	40.9	27.3	13.6	9.1	4.5	0.0	0.0	0.0
77.5°	782.6	259.3	54.6	27.3	18.2	13.6	9.1	4.5	0.0	0.0	0.0
80°	318.5	118.3	36.4	18.2	18.2	13.6	9.1	4.5	0.0	0.0	0.0
82.5°	209.3	54.6	22.7	18.2	13.6	9.1	4.5	0.0	0.0	0.0	0.0
85°	159.2	31.8	13.6	13.6	9.1	4.5	0.0	0.0	0.0	0.0	0.0
87.5°	68.2	18.2	13.6	9.1	9.1	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)