

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: P484312

Luminaire Tested: **IFLD-L-SA8D-727-U-SL3-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484312
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8D-727-U-SL3-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens with House Side Shield
Light Source: (128) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

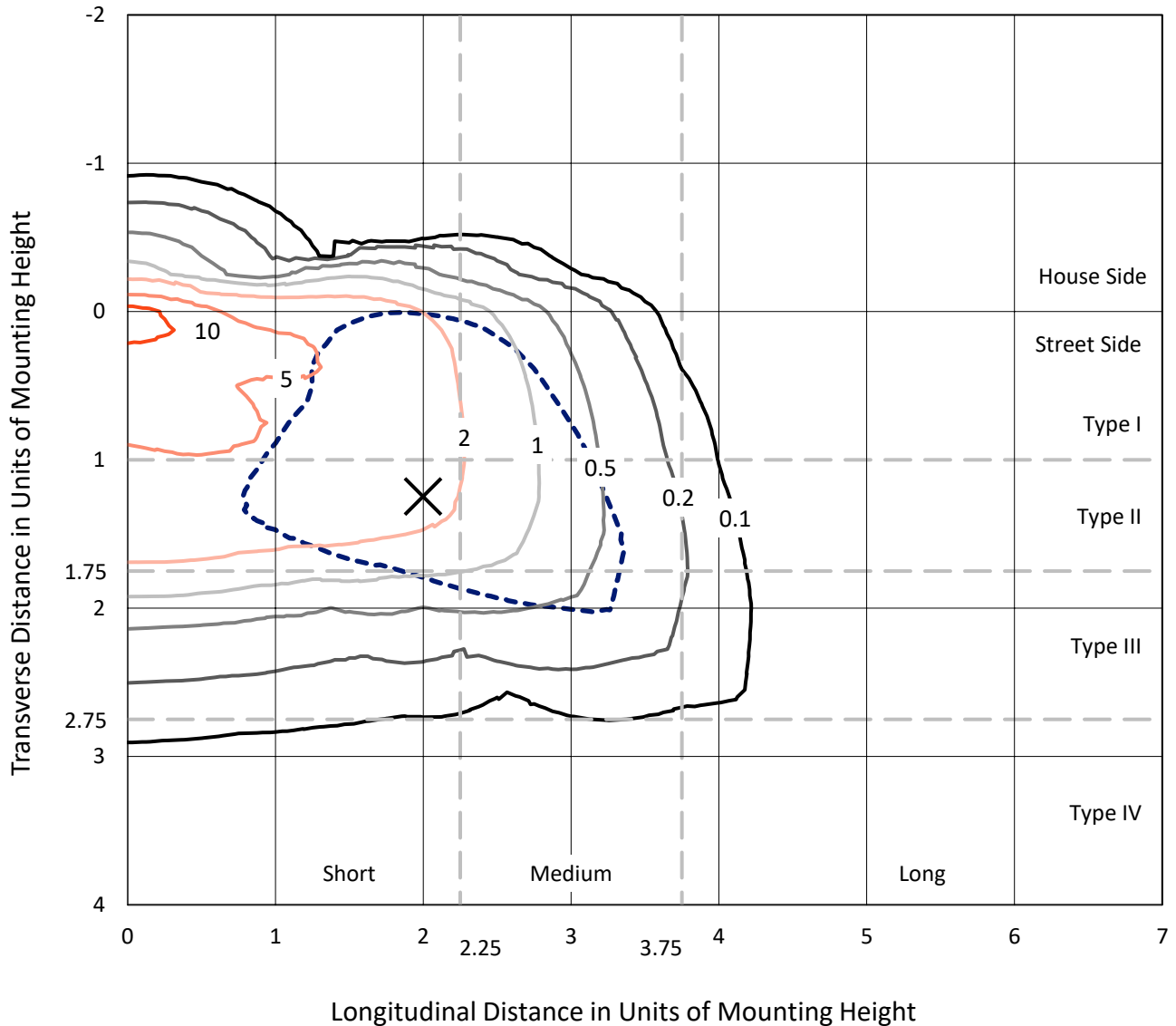
Lumens per Lamp: N/A
Luminaire Lumens: 38989.6 lumens
Efficiency: N/A
Efficacy: 79.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

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

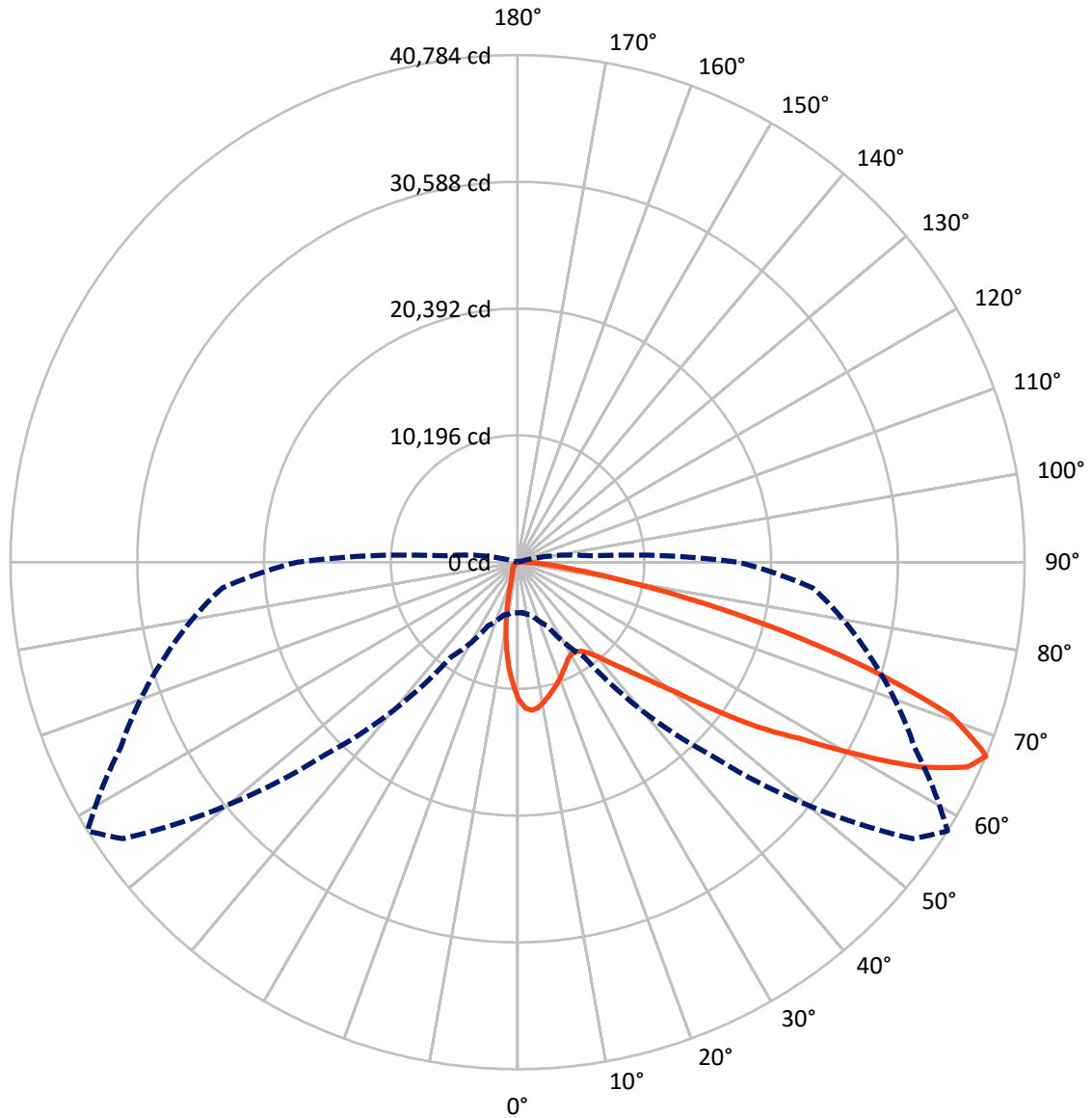
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 12.3 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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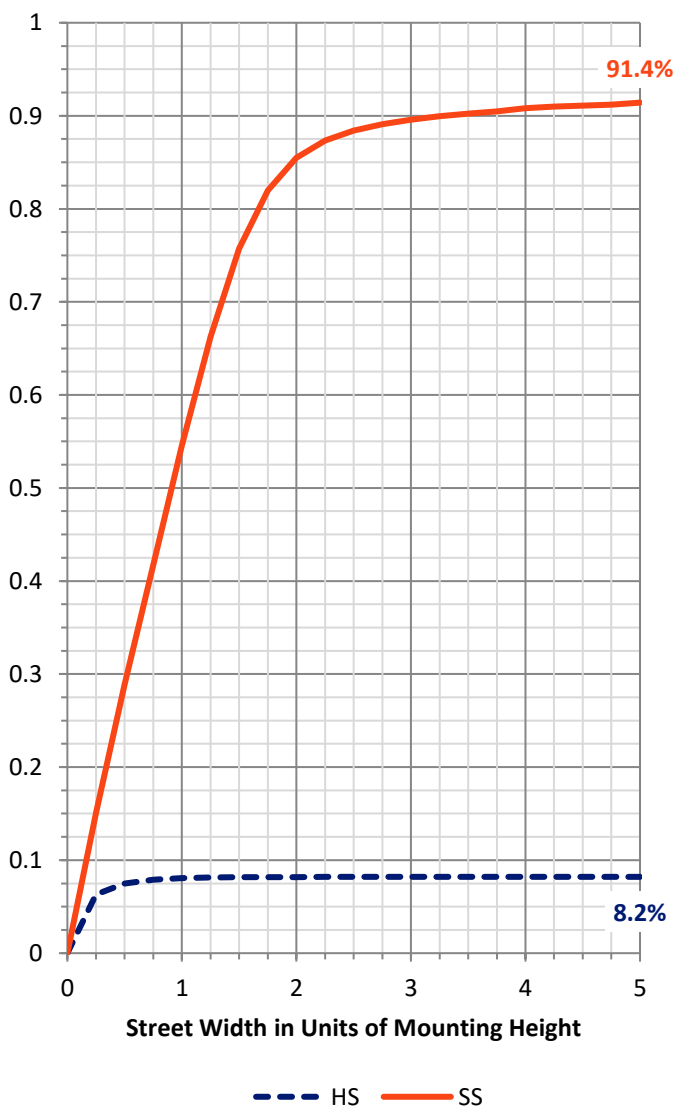
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3222.7	0.0	3222.7
	% Fixture	8.3	0.0	8.3
Street Side	Lumens	35766.8	0.0	35766.8
	% Fixture	91.7	0.0	91.7
Total	Lumens	38989.6	0.0	38989.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	876.5	2.2
10°-20°	1818.0	4.7
20°-30°	2412.1	6.2
30°-40°	3342.3	8.6
40°-50°	5453.7	14.0
50°-60°	9585.9	24.6
60°-70°	10617.1	27.2
70°-80°	4399.7	11.3
80°-90°	484.3	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°	38989.6	100.0
0°-180°	38989.6	100.0

Coefficient of Utilization



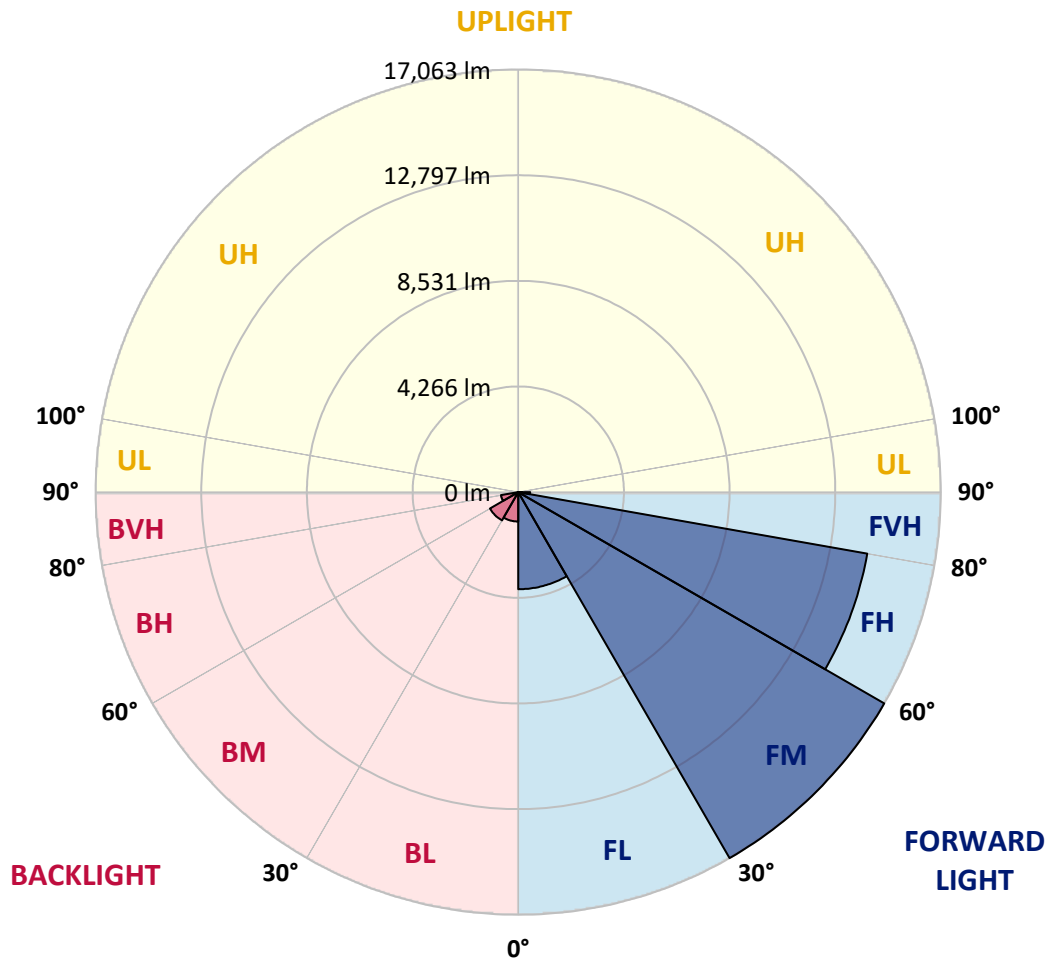
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3919.5	10.1			
FM (30°-60°)	17062.6	43.8			
FH (60°-80°)	14308.3	36.7			G5
FVH (80°-90°)	476.4	1.2			G3/500
BL (0°-30°)	1187.0	3.0	B3/2500		
BM (30°-60°)	1319.3	3.4	B2/2500		
BH (60°-80°)	708.6	1.8	B2/1000		G2/1000
BVH (80°-90°)	8.0	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°	11046.3	11046.3	11046.3	11046.3	11046.3	11046.3	11046.3	11046.3	11046.3	11046.3	11046.3
2.5°	12019.4	12060.8	12097.1	12029.8	12086.7	12003.9	11791.7	11745.1	11708.8	11393.1	11211.9
5°	12014.2	11967.7	12003.9	12035.0	11957.3	12019.4	11967.7	11972.8	11833.1	11548.4	11041.1
7.5°	11211.9	11191.2	11211.9	11362.0	11532.8	11667.4	11745.1	11822.7	11729.5	11305.1	10813.3
10°	10130.1	10233.6	10290.5	10559.7	10823.7	11072.2	11315.4	11460.4	11434.5	11263.7	10564.9
12.5°	9374.3	9343.3	9550.3	9726.3	9990.3	10492.4	10916.9	11051.4	11206.7	10968.6	10238.8
15°	8675.5	8592.7	8716.9	9022.3	9472.7	9871.2	10466.5	10668.4	10865.1	10927.2	10062.8
17.5°	8007.8	8049.2	8178.6	8452.9	8877.4	9436.4	9995.5	10285.4	10756.4	10673.6	9798.8
20°	7686.8	7774.8	7821.4	7961.2	8256.2	8815.3	9648.7	9881.6	10383.7	10668.4	9540.0
22.5°	7702.4	7702.4	7593.7	7676.5	7945.7	8380.5	9177.6	9436.4	10233.6	10399.2	9307.0
25°	7868.0	7764.5	7769.7	7671.3	7785.2	8023.3	8753.2	9068.9	9928.2	10425.1	9182.8
27.5°	7992.2	7971.5	7940.5	7914.6	7769.7	7805.9	8473.6	8732.5	9809.1	10394.1	8991.3
30°	8442.6	8349.4	8318.4	8261.4	8069.9	7893.9	8251.1	8577.2	9716.0	10466.5	8882.6
32.5°	8820.5	8836.0	8861.9	8696.2	8530.6	8095.8	8313.2	8572.0	9648.7	10632.2	8991.3
35°	9296.7	9364.0	9374.3	9322.6	9146.6	8716.9	8572.0	8794.6	9762.5	10927.2	9001.6
37.5°	10021.4	9948.9	10145.6	10166.3	10042.1	9472.7	9172.4	9260.4	10099.0	11398.3	9395.0
40°	10492.4	10580.4	10947.9	11175.7	10963.5	10445.8	10042.1	10026.5	10585.6	12138.5	9881.6
42.5°	11015.2	11211.9	11615.7	12107.4	12081.5	11600.1	11191.2	11123.9	11450.0	13210.0	10652.9
45°	11729.5	11905.5	12469.8	13210.0	13613.7	13204.8	12588.8	12454.2	12500.8	14669.7	11967.7
47.5°	12914.9	12868.3	13681.0	14410.9	15073.5	14757.7	14493.7	14100.3	14064.1	16388.2	13784.5
50°	14255.6	14245.2	14969.9	15798.1	16564.2	17180.2	16740.2	16310.6	16320.9	18722.8	15922.4
52.5°	15529.0	15730.8	16512.5	17335.5	18650.3	19312.9	19737.3	19566.5	18743.5	20808.8	18210.3
55°	16201.9	16377.9	17154.3	18572.6	20648.4	22351.4	23500.5	23355.6	21766.4	23158.9	20467.2
57.5°	15565.2	15684.3	16735.1	18593.4	22046.0	25845.4	26947.9	26766.8	24892.9	24955.1	23195.1
60°	12899.4	13085.7	14649.0	16828.2	21502.4	28537.1	31694.6	31420.3	27739.9	27227.5	24949.9
62.5°	8934.3	9058.6	10342.3	13054.7	18924.6	29474.0	36177.3	36327.4	30742.2	28997.8	25472.7
65°	5787.1	5776.8	6511.8	8349.4	13411.9	26637.4	38827.6	39759.3	33640.9	29266.9	25312.2
67°	4089.3	4073.8	4420.6	5662.9	9286.3	21947.6	38781.0	40784.2	35214.5	29344.6	23826.6
67.5°	3773.5	3758.0	4089.3	5207.4	8380.5	20410.2	38201.3	40256.3	35768.4	29235.9	23174.4
70°	2929.8	2888.4	3012.6	3587.2	4881.3	13199.6	32693.7	36979.6	34619.2	26523.5	18505.4
72.5°	2117.1	2163.7	2360.4	2945.3	3830.5	7101.9	24918.8	29903.6	28914.9	19991.0	11760.6
75°	1475.3	1516.7	1832.4	2401.8	3514.7	4306.7	16848.9	21688.8	20141.1	11035.9	5010.7
77.5°	771.3	823.0	1169.8	1920.4	3193.8	3333.6	10067.9	13753.5	10673.6	3928.8	1382.1
80°	357.2	383.0	584.9	1361.4	2671.0	2929.8	5869.9	7650.6	4270.5	880.0	476.2
82.5°	155.3	170.8	269.2	781.6	1894.5	2562.3	3633.8	4011.7	1547.7	284.7	295.1
85°	31.1	36.2	103.5	414.1	916.2	1552.9	2551.9	2381.1	776.4	139.8	232.9
87.5°	0.0	0.0	25.9	119.1	248.5	460.7	1081.9	1081.9	238.1	72.5	88.0
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°	11046.3	11046.3	11046.3	11046.3	11046.3	11046.3	11046.3	11046.3	11046.3	11046.3	11046.3
2.5°	11051.4	10865.1	10456.2	10078.3	9809.1	9503.7	9100.0	8918.8	8851.5	8758.3	8618.6
5°	10761.6	10533.8	9835.0	9131.0	8359.8	7774.8	7153.7	6791.3	6517.0	6346.2	6289.2
7.5°	10352.6	9886.8	8944.7	7816.2	6817.2	5947.6	5005.5	4368.8	3959.9	3794.2	3639.0
10°	10026.5	9420.9	7987.1	6584.3	5254.0	3980.6	2919.4	2360.4	1935.9	1775.5	1754.8
12.5°	9602.1	8877.4	7091.6	5326.4	3654.5	2370.8	1615.0	1402.8	1283.7	1263.0	1247.5
15°	9250.1	8385.6	6242.6	4125.5	2365.6	1480.4	1257.8	1206.1	1175.0	1164.7	1169.8
17.5°	9012.0	7857.7	5373.0	3002.3	1558.1	1211.3	1159.5	1128.4	1112.9	1107.7	1092.2
20°	8540.9	7412.5	4513.8	2101.6	1216.4	1118.1	1076.7	1050.8	1035.3	1030.1	1024.9
22.5°	8271.8	6848.3	3654.5	1464.9	1081.9	1014.6	983.5	962.8	936.9	921.4	916.2
25°	8002.6	6434.2	2888.4	1138.8	983.5	936.9	890.3	864.4	823.0	802.3	797.2
27.5°	7686.8	6025.2	2225.8	988.7	885.2	838.6	792.0	750.6	698.8	678.1	667.7
30°	7505.7	5626.7	1677.1	885.2	812.7	750.6	693.6	641.9	584.9	548.7	538.3
32.5°	7412.5	5264.3	1257.8	807.5	735.0	667.7	595.3	533.2	481.4	450.3	445.2
35°	7298.6	4912.3	988.7	735.0	662.6	590.1	517.6	455.5	403.8	377.9	367.5
37.5°	7417.7	4705.3	823.0	678.1	605.6	522.8	445.2	383.0	341.6	315.8	310.6
40°	7743.8	4534.5	714.3	626.3	548.7	460.7	388.2	326.1	289.9	269.2	258.8
42.5°	8245.9	4534.5	647.0	574.6	496.9	403.8	331.3	284.7	248.5	227.8	222.6
45°	9156.9	4674.2	590.1	522.8	434.8	346.8	284.7	238.1	201.9	181.2	176.0
47.5°	10435.5	4995.2	543.5	476.2	388.2	305.4	248.5	201.9	165.6	144.9	139.8
50°	12154.0	5725.0	496.9	419.3	346.8	264.0	207.1	160.5	129.4	108.7	103.5
52.5°	14297.0	6760.3	450.3	388.2	295.1	222.6	165.6	129.4	98.4	82.8	77.6
55°	16564.2	8028.5	393.4	346.8	253.6	186.3	134.6	98.4	72.5	62.1	56.9
57.5°	18847.0	9006.8	346.8	300.2	207.1	150.1	108.7	77.6	51.8	41.4	36.2
60°	20058.3	9100.0	300.2	248.5	165.6	119.1	82.8	56.9	36.2	25.9	20.7
62.5°	20244.6	8271.8	258.8	201.9	134.6	93.2	56.9	41.4	20.7	10.4	10.4
65°	19287.0	6894.9	222.6	160.5	103.5	67.3	41.4	25.9	10.4	5.2	0.0
67°	17734.1	5776.8	191.5	134.6	82.8	51.8	31.1	15.5	5.2	0.0	0.0
67.5°	17133.6	5466.2	181.2	124.2	77.6	46.6	25.9	15.5	5.2	0.0	0.0
70°	13298.0	3902.9	134.6	88.0	56.9	36.2	20.7	10.4	0.0	0.0	0.0
72.5°	8147.5	2282.8	103.5	62.1	41.4	25.9	15.5	5.2	0.0	0.0	0.0
75°	3416.4	786.8	88.0	46.6	31.1	15.5	10.4	5.2	0.0	0.0	0.0
77.5°	890.3	295.1	62.1	31.1	20.7	15.5	10.4	5.2	0.0	0.0	0.0
80°	362.3	134.6	41.4	20.7	20.7	15.5	10.4	5.2	0.0	0.0	0.0
82.5°	238.1	62.1	25.9	20.7	15.5	10.4	5.2	0.0	0.0	0.0	0.0
85°	181.2	36.2	15.5	15.5	10.4	5.2	0.0	0.0	0.0	0.0	0.0
87.5°	77.6	20.7	15.5	10.4	10.4	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)