

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: P484424

Luminaire Tested: **IFLD-L-SA7D-740-U-SL3-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484424
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7D-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

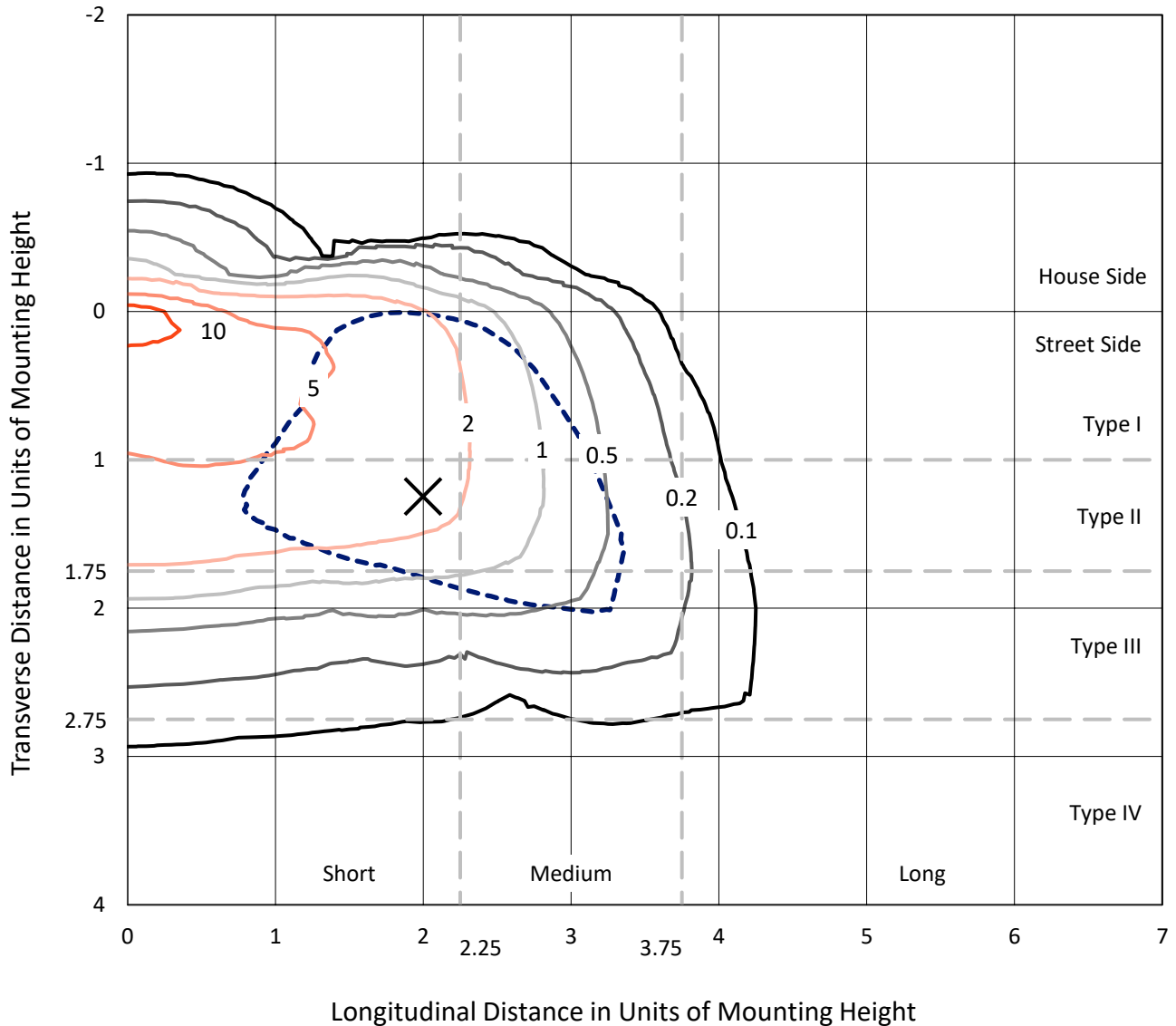
Lumens per Lamp: N/A
Luminaire Lumens: 40793.7 lumens
Efficiency: N/A
Efficacy: 96.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 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

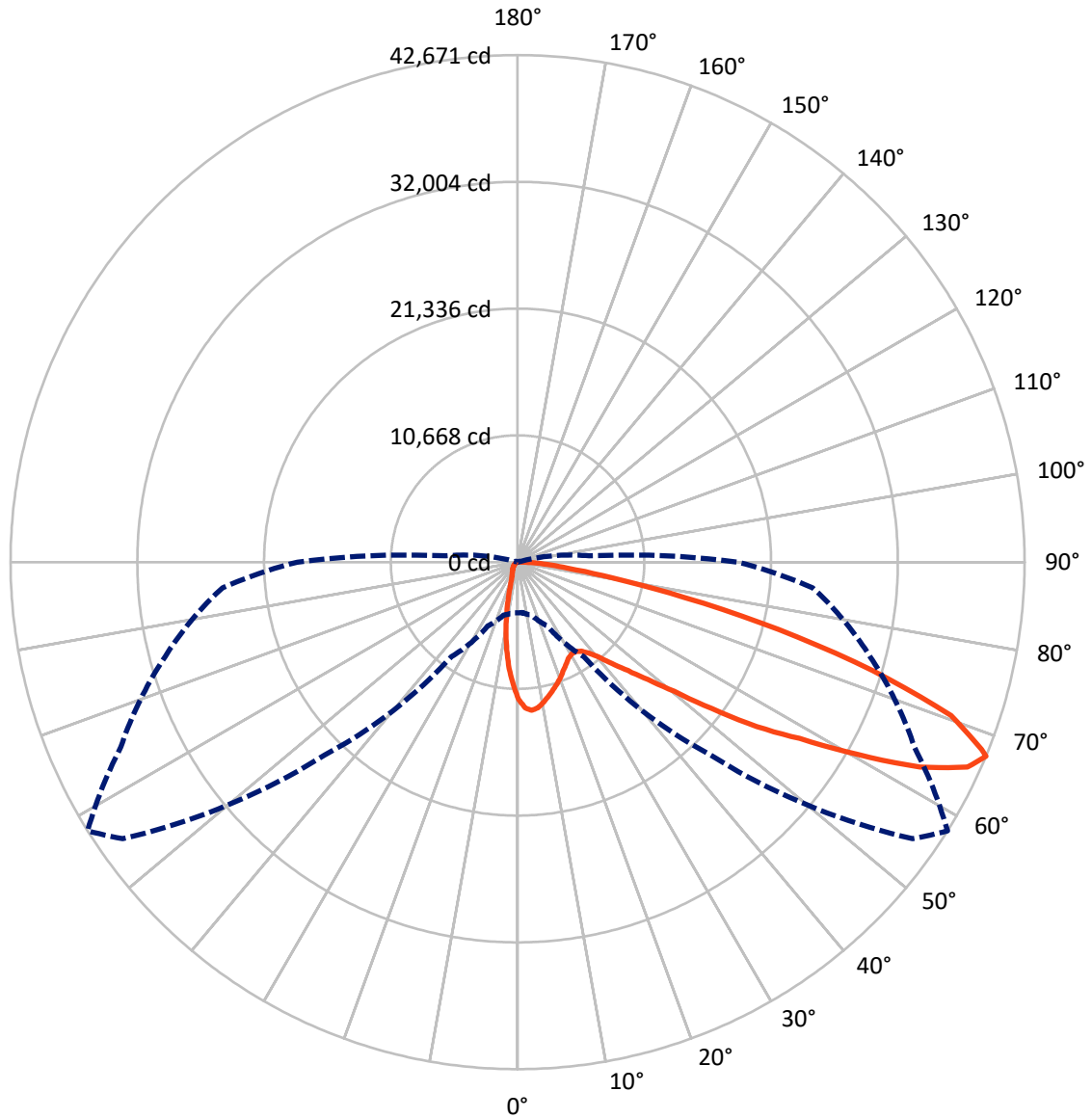
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 12.9 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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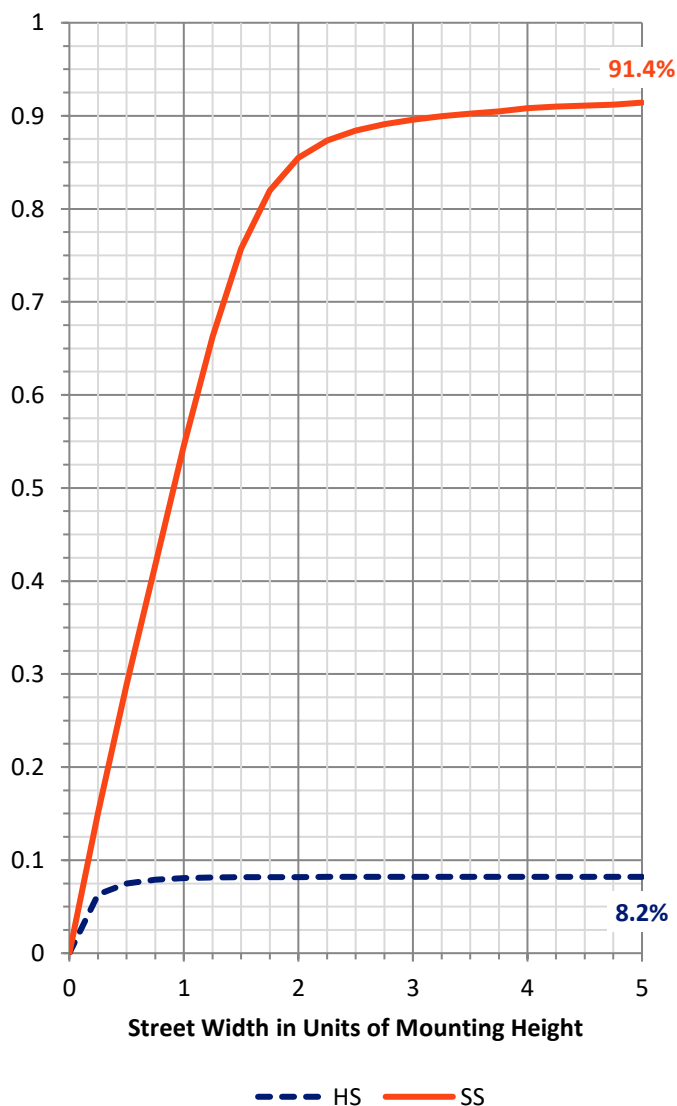
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3371.9	0.0	3371.9
	% Fixture	8.3	0.0	8.3
Street Side	Lumens	37421.8	0.0	37421.8
	% Fixture	91.7	0.0	91.7
Total	Lumens	40793.7	0.0	40793.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	917.0	2.2
10°-20°	1902.1	4.7
20°-30°	2523.7	6.2
30°-40°	3497.0	8.6
40°-50°	5706.1	14.0
50°-60°	10029.4	24.6
60°-70°	11108.4	27.2
70°-80°	4603.3	11.3
80°-90°	506.7	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°	40793.7	100.0
0°-180°	40793.7	100.0

Coefficient of Utilization



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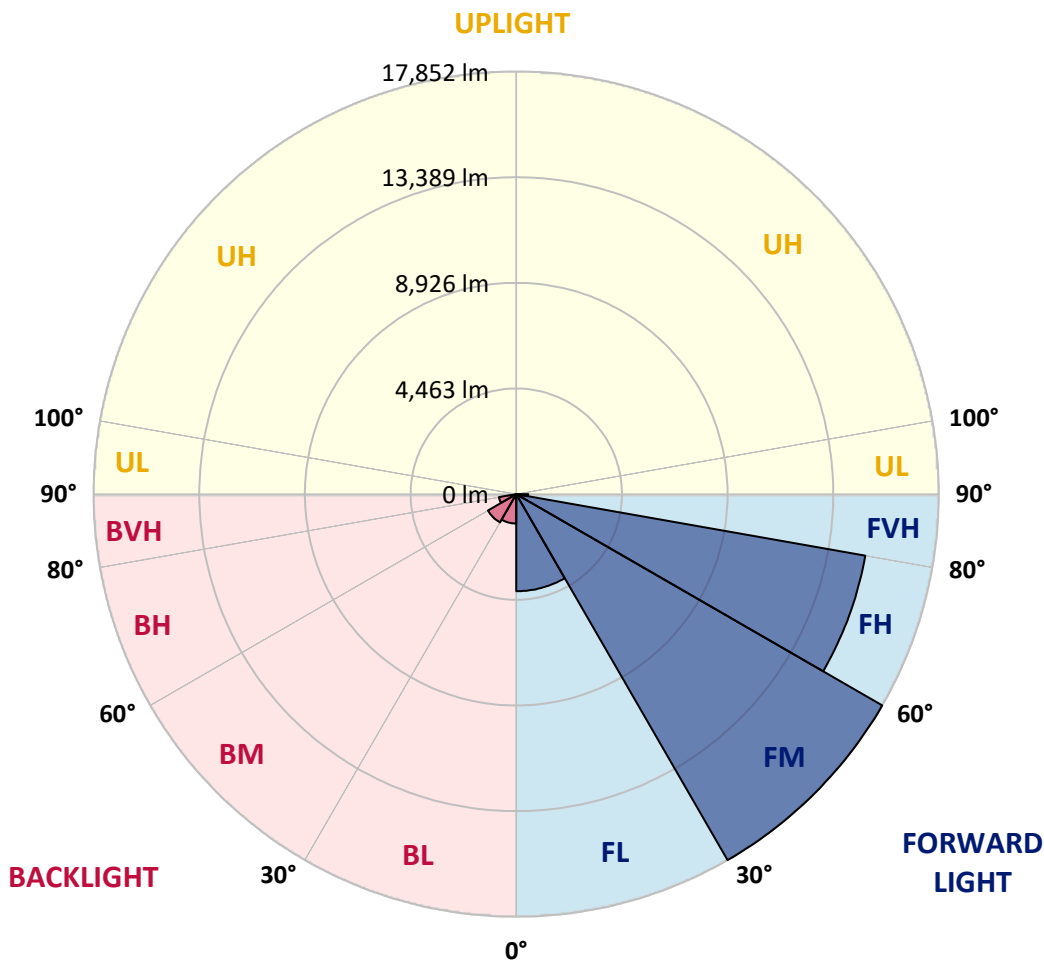
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4100.9	10.1			
FM (30°-60°)	17852.2	43.8			
FH (60°-80°)	14970.4	36.7			G5
FVH (80°-90°)	498.4	1.2			G3/500
BL (0°-30°)	1241.9	3.0	B3/2500		
BM (30°-60°)	1380.3	3.4	B2/2500		
BH (60°-80°)	741.3	1.8	B2/1000		G2/1000
BVH (80°-90°)	8.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	11557.4	11557.4	11557.4	11557.4	11557.4	11557.4	11557.4	11557.4	11557.4	11557.4	11557.4
2.5°	12575.6	12618.9	12656.8	12586.4	12646.0	12559.3	12337.3	12288.6	12250.6	11920.3	11730.7
5°	12570.2	12521.4	12559.3	12591.8	12510.6	12575.6	12521.4	12526.8	12380.6	12082.7	11552.0
7.5°	11730.7	11709.1	11730.7	11887.8	12066.5	12207.3	12288.6	12369.8	12272.3	11828.2	11313.7
10°	10598.8	10707.1	10766.7	11048.3	11324.5	11584.5	11839.0	11990.7	11963.6	11784.9	11053.7
12.5°	9808.1	9775.6	9992.2	10176.4	10452.6	10977.9	11422.0	11562.8	11725.3	11476.2	10712.5
15°	9077.0	8990.3	9120.3	9439.8	9911.0	10328.0	10950.8	11162.1	11367.9	11432.8	10528.4
17.5°	8378.3	8421.6	8557.0	8844.1	9288.2	9873.1	10458.0	10761.3	11254.1	11167.5	10252.2
20°	8042.5	8134.6	8183.3	8329.6	8638.3	9223.2	10095.1	10338.8	10864.2	11162.1	9981.4
22.5°	8058.8	8058.8	7945.0	8031.7	8313.3	8768.3	9602.3	9873.1	10707.1	10880.4	9737.7
25°	8232.1	8123.8	8129.2	8026.3	8145.4	8394.6	9158.2	9488.6	10387.6	10907.5	9607.7
27.5°	8362.1	8340.4	8307.9	8280.8	8129.2	8167.1	8865.7	9136.5	10263.0	10875.0	9407.3
30°	8833.2	8735.8	8703.3	8643.7	8443.3	8259.2	8632.9	8974.1	10165.5	10950.8	9293.6
32.5°	9228.6	9244.8	9271.9	9098.6	8925.3	8470.4	8697.8	8968.6	10095.1	11124.1	9407.3
35°	9726.9	9797.3	9808.1	9753.9	9569.8	9120.3	8968.6	9201.5	10214.3	11432.8	9418.2
37.5°	10485.1	10409.3	10615.1	10636.7	10506.7	9911.0	9596.9	9688.9	10566.3	11925.7	9829.8
40°	10977.9	11070.0	11454.5	11692.8	11470.8	10929.2	10506.7	10490.5	11075.4	12700.2	10338.8
42.5°	11524.9	11730.7	12153.2	12667.7	12640.6	12136.9	11709.1	11638.7	11979.8	13821.2	11145.8
45°	12272.3	12456.4	13046.8	13821.2	14243.7	13815.8	13171.3	13030.5	13079.3	15348.5	12521.4
47.5°	13512.5	13463.8	14314.1	15077.7	15770.9	15440.6	15164.4	14752.8	14714.9	17146.6	14422.4
50°	14915.2	14904.4	15662.6	16529.2	17330.7	17975.2	17514.8	17065.3	17076.2	19589.1	16659.1
52.5°	16247.5	16458.8	17276.5	18137.7	19513.3	20206.5	20650.6	20471.9	19610.8	21771.7	19052.9
55°	16951.6	17135.7	17948.1	19432.1	21603.8	23385.6	24587.9	24436.3	22773.6	24230.5	21414.3
57.5°	16285.4	16410.0	17509.4	19453.7	23066.1	27041.3	28194.9	28005.3	26044.8	26109.8	24268.4
60°	13496.3	13691.3	15326.8	17606.9	22497.4	29857.6	33161.2	32874.2	29023.5	28487.3	26104.4
62.5°	9347.7	9477.7	10820.9	13658.8	19800.3	30837.8	37851.3	38008.4	32164.7	30339.6	26651.4
65°	6054.9	6044.1	6813.1	8735.8	14032.5	27869.9	40624.3	41599.1	35197.6	30621.2	26483.5
67°	4278.5	4262.3	4625.1	5924.9	9716.0	22963.2	40575.5	42671.4	36844.0	30702.4	24929.1
67.5°	3948.2	3931.9	4278.5	5448.3	8768.3	21354.7	39968.9	42119.0	37423.5	30588.7	24246.7
70°	3065.4	3022.0	3152.0	3753.2	5107.1	13810.4	34206.5	38690.8	36221.2	27750.8	19361.6
72.5°	2215.1	2263.8	2469.6	3081.6	4007.7	7430.5	26071.9	31287.3	30252.9	20916.0	12304.8
75°	1543.5	1586.8	1917.2	2513.0	3677.4	4506.0	17628.6	22692.4	21073.1	11546.6	5242.5
77.5°	807.0	861.1	1224.0	2009.3	3341.6	3487.8	10533.8	14389.9	11167.5	4110.6	1446.0
80°	373.7	400.8	612.0	1424.4	2794.6	3065.4	6141.6	8004.6	4468.1	920.7	498.3
82.5°	162.5	178.7	281.6	817.8	1982.2	2680.8	3801.9	4197.3	1619.3	297.9	308.7
85°	32.5	37.9	108.3	433.3	958.6	1624.8	2670.0	2491.3	812.4	146.2	243.7
87.5°	0.0	0.0	27.1	124.6	260.0	482.0	1131.9	1131.9	249.1	75.8	92.1
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°	11557.4	11557.4	11557.4	11557.4	11557.4	11557.4	11557.4	11557.4	11557.4	11557.4	11557.4
2.5°	11562.8	11367.9	10940.0	10544.6	10263.0	9943.5	9521.1	9331.5	9261.1	9163.6	9017.4
5°	11259.5	11021.2	10290.1	9553.6	8746.6	8134.6	7484.7	7105.6	6818.5	6639.8	6580.3
7.5°	10831.7	10344.3	9358.6	8177.9	7132.7	6222.8	5237.1	4571.0	4143.1	3969.8	3807.3
10°	10490.5	9856.8	8356.6	6889.0	5497.1	4164.8	3054.5	2469.6	2025.5	1857.6	1836.0
12.5°	10046.4	9288.2	7419.7	5572.9	3823.6	2480.5	1689.7	1467.7	1343.1	1321.5	1305.2
15°	9678.1	8773.7	6531.5	4316.4	2475.0	1548.9	1316.1	1261.9	1229.4	1218.6	1224.0
17.5°	9429.0	8221.3	5621.6	3141.2	1630.2	1267.3	1213.1	1180.7	1164.4	1159.0	1142.7
20°	8936.1	7755.5	4722.6	2198.8	1272.7	1169.8	1126.5	1099.4	1083.2	1077.8	1072.3
22.5°	8654.5	7165.2	3823.6	1532.7	1131.9	1061.5	1029.0	1007.3	980.3	964.0	958.6
25°	8372.9	6731.9	3022.0	1191.5	1029.0	980.3	931.5	904.4	861.1	839.5	834.0
27.5°	8042.5	6304.0	2328.8	1034.4	926.1	877.4	828.6	785.3	731.1	709.5	698.6
30°	7853.0	5887.0	1754.7	926.1	850.3	785.3	725.7	671.6	612.0	574.1	563.2
32.5°	7755.5	5507.9	1316.1	844.9	769.0	698.6	622.8	557.8	503.7	471.2	465.8
35°	7636.3	5139.6	1034.4	769.0	693.2	617.4	541.6	476.6	422.4	395.4	384.5
37.5°	7760.9	4923.0	861.1	709.5	633.7	547.0	465.8	400.8	357.4	330.4	325.0
40°	8102.1	4744.3	747.4	655.3	574.1	482.0	406.2	341.2	303.3	281.6	270.8
42.5°	8627.4	4744.3	677.0	601.2	519.9	422.4	346.6	297.9	260.0	238.3	232.9
45°	9580.6	4890.5	617.4	547.0	454.9	362.9	297.9	249.1	211.2	189.6	184.1
47.5°	10918.3	5226.3	568.7	498.3	406.2	319.5	260.0	211.2	173.3	151.6	146.2
50°	12716.4	5989.9	519.9	438.7	362.9	276.2	216.6	167.9	135.4	113.7	108.3
52.5°	14958.6	7073.1	471.2	406.2	308.7	232.9	173.3	135.4	102.9	86.7	81.2
55°	17330.7	8400.0	411.6	362.9	265.4	195.0	140.8	102.9	75.8	65.0	59.6
57.5°	19719.1	9423.6	362.9	314.1	216.6	157.1	113.7	81.2	54.2	43.3	37.9
60°	20986.4	9521.1	314.1	260.0	173.3	124.6	86.7	59.6	37.9	27.1	21.7
62.5°	21181.4	8654.5	270.8	211.2	140.8	97.5	59.6	43.3	21.7	10.8	10.8
65°	20179.4	7213.9	232.9	167.9	108.3	70.4	43.3	27.1	10.8	5.4	0.0
67°	18554.7	6044.1	200.4	140.8	86.7	54.2	32.5	16.2	5.4	0.0	0.0
67.5°	17926.4	5719.1	189.6	130.0	81.2	48.7	27.1	16.2	5.4	0.0	0.0
70°	13913.3	4083.5	140.8	92.1	59.6	37.9	21.7	10.8	0.0	0.0	0.0
72.5°	8524.5	2388.4	108.3	65.0	43.3	27.1	16.2	5.4	0.0	0.0	0.0
75°	3574.5	823.2	92.1	48.7	32.5	16.2	10.8	5.4	0.0	0.0	0.0
77.5°	931.5	308.7	65.0	32.5	21.7	16.2	10.8	5.4	0.0	0.0	0.0
80°	379.1	140.8	43.3	21.7	21.7	16.2	10.8	5.4	0.0	0.0	0.0
82.5°	249.1	65.0	27.1	21.7	16.2	10.8	5.4	0.0	0.0	0.0	0.0
85°	189.6	37.9	16.2	16.2	10.8	5.4	0.0	0.0	0.0	0.0	0.0
87.5°	81.2	21.7	16.2	10.8	10.8	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)