

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: P484389

Luminaire Tested: **IFLD-L-SA8C-735-U-SL3-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484389
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8C-735-U-SL3-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens with House Side Shield
Light Source: (128) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

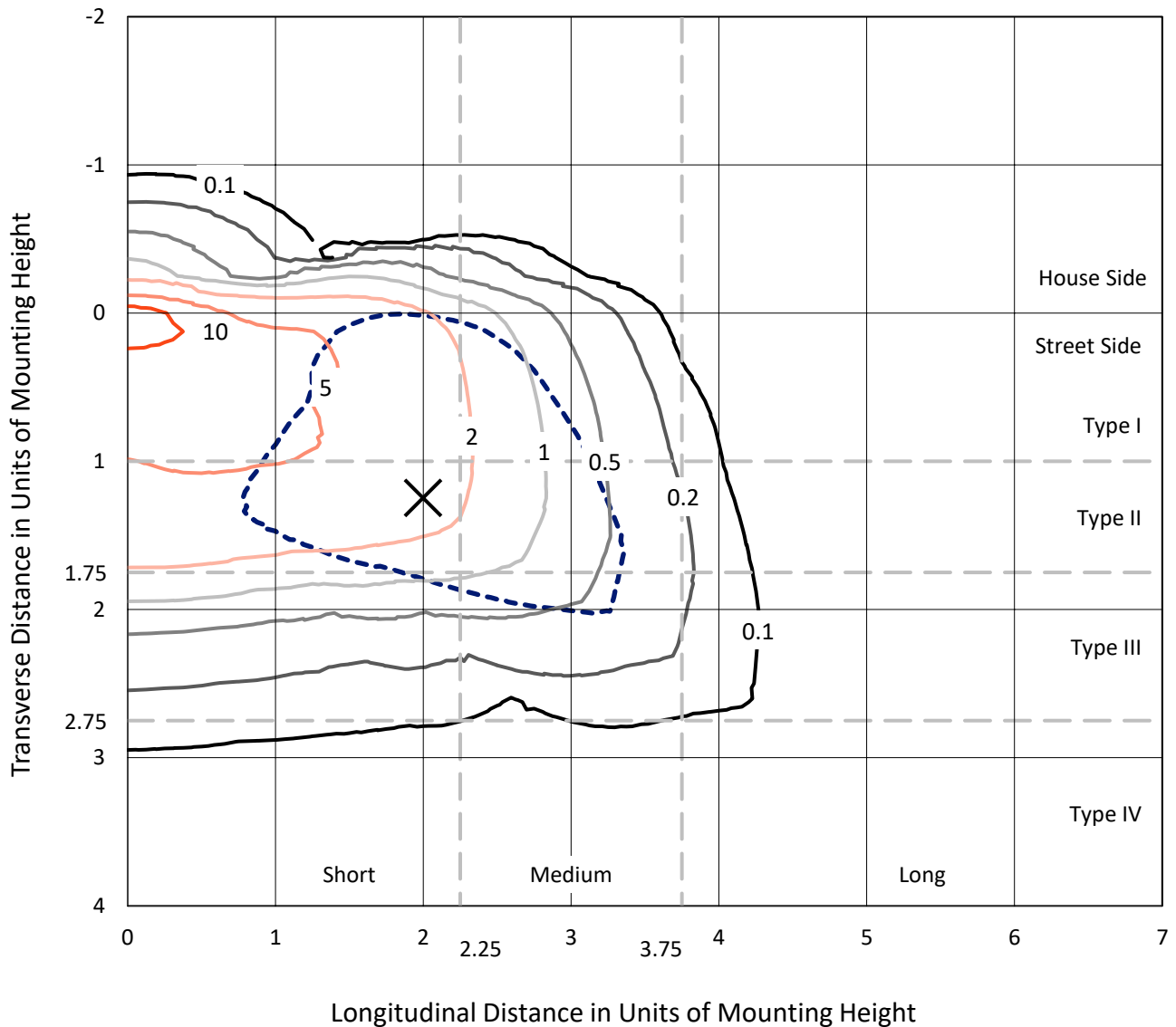
Lumens per Lamp: N/A
Luminaire Lumens: 41789.5 lumens
Efficiency: N/A
Efficacy: 99.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 420.3
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

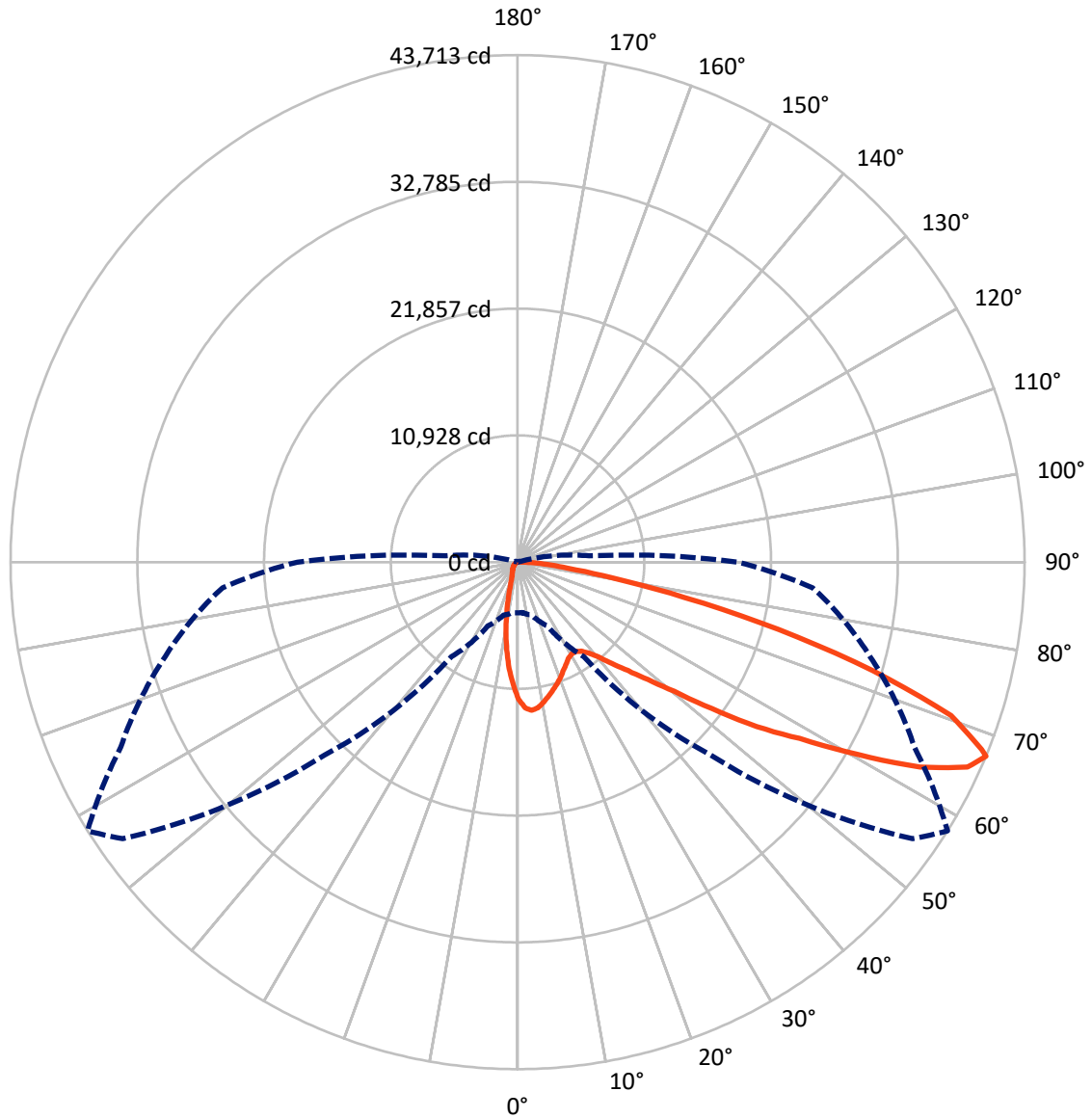
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 13.2 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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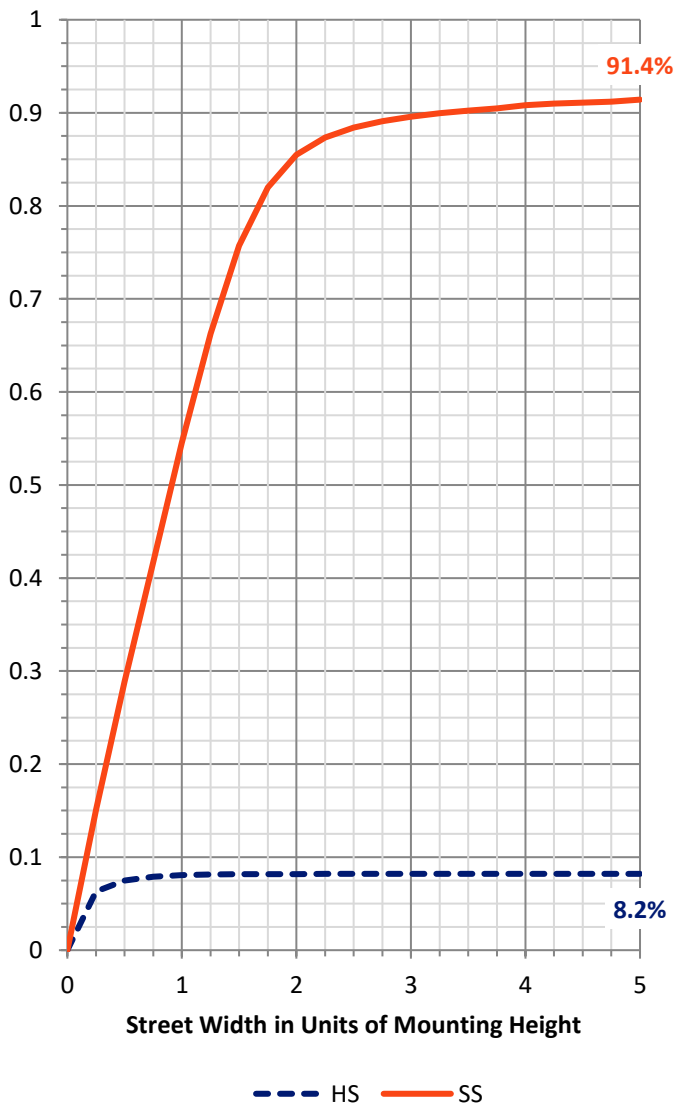
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3454.2	0.0	3454.2
	% Fixture	8.3	0.0	8.3
Street Side	Lumens	38335.4	0.0	38335.4
	% Fixture	91.7	0.0	91.7
Total	Lumens	41789.5	0.0	41789.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	939.4	2.2
10°-20°	1948.5	4.7
20°-30°	2585.3	6.2
30°-40°	3582.3	8.6
40°-50°	5845.4	14.0
50°-60°	10274.3	24.6
60°-70°	11379.6	27.2
70°-80°	4715.7	11.3
80°-90°	519.1	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°	41789.5	100.0
0°-180°	41789.5	100.0



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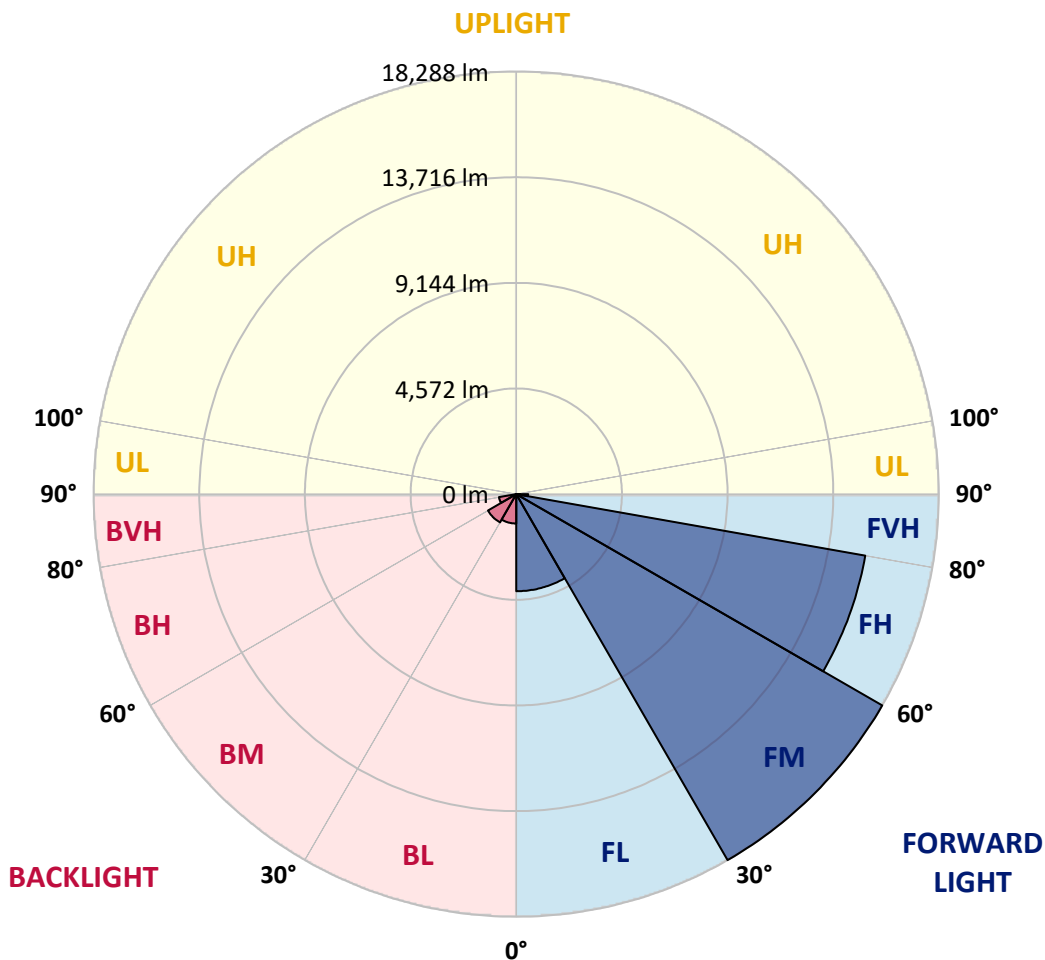
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4201.0	10.1			
FM (30°-60°)	18288.0	43.8			
FH (60°-80°)	15335.8	36.7			G5
FVH (80°-90°)	510.6	1.2			G4/750
BL (0°-30°)	1272.2	3.0	B3/2500		
BM (30°-60°)	1414.0	3.4	B2/2500		
BH (60°-80°)	759.4	1.8	B2/1000		G2/1000
BVH (80°-90°)	8.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	11839.6	11839.6	11839.6	11839.6	11839.6	11839.6	11839.6	11839.6	11839.6	11839.6	11839.6
2.5°	12882.6	12927.0	12965.8	12893.7	12954.7	12865.9	12638.5	12588.5	12549.7	12211.3	12017.1
5°	12877.0	12827.1	12865.9	12899.2	12816.0	12882.6	12827.1	12832.7	12682.9	12377.7	11834.0
7.5°	12017.1	11994.9	12017.1	12178.0	12361.1	12505.3	12588.5	12671.8	12571.9	12117.0	11589.9
10°	10857.5	10968.5	11029.5	11318.0	11601.0	11867.3	12128.1	12283.4	12255.7	12072.6	11323.6
12.5°	10047.5	10014.2	10236.2	10424.8	10707.8	11245.9	11700.9	11845.1	12011.5	11756.3	10974.1
15°	9298.5	9209.8	9342.9	9670.3	10152.9	10580.1	11218.2	11434.5	11645.4	11712.0	10785.4
17.5°	8582.8	8627.2	8765.9	9060.0	9514.9	10114.1	10713.3	11024.0	11528.9	11440.1	10502.5
20°	8238.9	8333.2	8383.1	8532.9	8849.2	9448.3	10341.6	10591.2	11129.4	11434.5	10225.1
22.5°	8255.5	8255.5	8139.0	8227.8	8516.3	8982.3	9836.7	10114.1	10968.5	11146.0	9975.4
25°	8433.0	8322.1	8327.6	8222.2	8344.3	8599.5	9381.8	9720.2	10641.2	11173.8	9842.3
27.5°	8566.2	8544.0	8510.7	8483.0	8327.6	8366.5	9082.2	9359.6	10513.6	11140.5	9637.0
30°	9048.9	8949.0	8915.7	8854.7	8649.4	8460.8	8843.6	9193.1	10413.7	11218.2	9520.5
32.5°	9453.9	9470.5	9498.3	9320.7	9143.2	8677.2	8910.2	9187.6	10341.6	11395.7	9637.0
35°	9964.3	10036.4	10047.5	9992.1	9803.4	9342.9	9187.6	9426.2	10463.6	11712.0	9648.1
37.5°	10741.0	10663.4	10874.2	10896.4	10763.2	10152.9	9831.2	9925.5	10824.3	12216.8	10069.7
40°	11245.9	11340.2	11734.1	11978.3	11750.8	11196.0	10763.2	10746.6	11345.8	13010.2	10591.2
42.5°	11806.3	12017.1	12449.8	12976.9	12949.2	12433.2	11994.9	11922.8	12272.3	14158.6	11417.9
45°	12571.9	12760.5	13365.3	14158.6	14591.4	14153.1	13492.9	13348.6	13398.6	15723.2	12827.1
47.5°	13842.4	13792.5	14663.5	15445.8	16155.9	15817.5	15534.6	15112.9	15074.1	17565.2	14774.5
50°	15279.4	15268.3	16045.0	16932.7	17753.8	18414.0	17942.4	17481.9	17493.0	20067.3	17065.8
52.5°	16644.2	16860.5	17698.3	18580.4	19989.7	20699.8	21154.7	20971.7	20089.5	22303.2	19518.1
55°	17365.4	17554.1	18386.3	19906.4	22131.2	23956.5	25188.2	25032.8	23329.6	24822.0	21937.0
57.5°	16683.0	16810.6	17936.9	19928.6	23629.2	27701.5	28883.2	28689.0	26680.6	26747.2	24860.8
60°	13825.8	14025.5	15701.0	18036.7	23046.6	30586.4	33970.8	33676.7	29732.0	29182.8	26741.6
62.5°	9575.9	9709.1	11085.0	13992.2	20283.7	31590.6	38775.4	38936.3	32949.9	31080.2	27302.0
65°	6202.7	6191.6	6979.5	8949.0	14375.0	28550.3	41616.0	42614.6	36056.8	31368.7	27130.0
67°	4383.0	4366.3	4738.0	6069.6	9953.2	23523.8	41566.0	43713.1	37743.4	31451.9	25537.7
67.5°	4044.5	4027.9	4383.0	5581.3	8982.3	21876.0	40944.7	43147.2	38337.1	31335.4	24838.7
70°	3140.2	3095.8	3229.0	3844.8	5231.8	14147.5	35041.5	39635.3	37105.4	28428.2	19834.3
72.5°	2269.2	2319.1	2529.9	3156.8	4105.6	7611.9	26708.4	32051.1	30991.5	21426.6	12605.2
75°	1581.2	1625.6	1964.0	2574.3	3767.1	4616.0	18058.9	23246.4	21587.5	11828.5	5370.5
77.5°	826.7	882.1	1253.9	2058.3	3423.2	3572.9	10791.0	14741.2	11440.1	4211.0	1481.3
80°	382.8	410.6	626.9	1459.1	2862.8	3140.2	6291.5	8200.0	4577.1	943.2	510.4
82.5°	166.4	183.1	288.5	837.8	2030.6	2746.3	3894.7	4299.7	1658.9	305.1	316.2
85°	33.3	38.8	111.0	443.8	982.0	1664.4	2735.2	2552.1	832.2	149.8	249.7
87.5°	0.0	0.0	27.7	127.6	266.3	493.8	1159.5	1159.5	255.2	77.7	94.3
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°	11839.6	11839.6	11839.6	11839.6	11839.6	11839.6	11839.6	11839.6	11839.6	11839.6	11839.6
2.5°	11845.1	11645.4	11207.1	10802.1	10513.6	10186.2	9753.5	9559.3	9487.2	9387.3	9237.5
5°	11534.4	11290.3	10541.3	9786.8	8960.1	8333.2	7667.4	7279.1	6985.0	6801.9	6740.9
7.5°	11096.1	10596.8	9587.0	8377.6	7306.8	6374.7	5365.0	4682.6	4244.3	4066.7	3900.3
10°	10746.6	10097.5	8560.7	7057.1	5631.3	4266.5	3129.1	2529.9	2075.0	1903.0	1880.8
12.5°	10291.6	9514.9	7600.8	5709.0	3916.9	2541.0	1731.0	1503.5	1375.9	1353.7	1337.1
15°	9914.4	8987.9	6691.0	4421.8	2535.5	1586.7	1348.2	1292.7	1259.4	1248.3	1253.9
17.5°	9659.2	8422.0	5758.9	3217.9	1670.0	1298.2	1242.8	1209.5	1192.8	1187.3	1170.6
20°	9154.3	7944.8	4837.9	2252.5	1303.8	1198.4	1154.0	1126.3	1109.6	1104.1	1098.5
22.5°	8865.8	7340.1	3916.9	1570.1	1159.5	1087.4	1054.1	1031.9	1004.2	987.6	982.0
25°	8577.3	6896.2	3095.8	1220.6	1054.1	1004.2	954.3	926.5	882.1	859.9	854.4
27.5°	8238.9	6457.9	2385.7	1059.7	948.7	898.8	848.9	804.5	749.0	726.8	715.7
30°	8044.7	6030.7	1797.6	948.7	871.0	804.5	743.4	688.0	626.9	588.1	577.0
32.5°	7944.8	5642.4	1348.2	865.5	787.8	715.7	638.0	571.4	516.0	482.7	477.1
35°	7822.8	5265.1	1059.7	787.8	710.2	632.5	554.8	488.2	432.7	405.0	393.9
37.5°	7950.4	5043.2	882.1	726.8	649.1	560.4	477.1	410.6	366.2	338.4	332.9
40°	8299.9	4860.1	765.6	671.3	588.1	493.8	416.1	349.5	310.7	288.5	277.4
42.5°	8838.1	4860.1	693.5	615.8	532.6	432.7	355.1	305.1	266.3	244.1	238.6
45°	9814.5	5009.9	632.5	560.4	466.0	371.7	305.1	255.2	216.4	194.2	188.6
47.5°	11184.9	5353.9	582.5	510.4	416.1	327.3	266.3	216.4	177.5	155.3	149.8
50°	13026.8	6136.2	532.6	449.4	371.7	283.0	221.9	172.0	138.7	116.5	111.0
52.5°	15323.7	7245.8	482.7	416.1	316.2	238.6	177.5	138.7	105.4	88.8	83.2
55°	17753.8	8605.0	421.7	371.7	271.9	199.7	144.2	105.4	77.7	66.6	61.0
57.5°	20200.5	9653.6	371.7	321.8	221.9	160.9	116.5	83.2	55.5	44.4	38.8
60°	21498.7	9753.5	321.8	266.3	177.5	127.6	88.8	61.0	38.8	27.7	22.2
62.5°	21698.5	8865.8	277.4	216.4	144.2	99.9	61.0	44.4	22.2	11.1	11.1
65°	20672.1	7390.0	238.6	172.0	111.0	72.1	44.4	27.7	11.1	5.5	0.0
67°	19007.6	6191.6	205.3	144.2	88.8	55.5	33.3	16.6	5.5	0.0	0.0
67.5°	18364.1	5858.7	194.2	133.2	83.2	49.9	27.7	16.6	5.5	0.0	0.0
70°	14253.0	4183.2	144.2	94.3	61.0	38.8	22.2	11.1	0.0	0.0	0.0
72.5°	8732.6	2446.7	111.0	66.6	44.4	27.7	16.6	5.5	0.0	0.0	0.0
75°	3661.7	843.3	94.3	49.9	33.3	16.6	11.1	5.5	0.0	0.0	0.0
77.5°	954.3	316.2	66.6	33.3	22.2	16.6	11.1	5.5	0.0	0.0	0.0
80°	388.4	144.2	44.4	22.2	22.2	16.6	11.1	5.5	0.0	0.0	0.0
82.5°	255.2	66.6	27.7	22.2	16.6	11.1	5.5	0.0	0.0	0.0	0.0
85°	194.2	38.8	16.6	16.6	11.1	5.5	0.0	0.0	0.0	0.0	0.0
87.5°	83.2	22.2	16.6	11.1	11.1	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)