

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: P484077

Luminaire Tested: **IFLD-L-SA8C-750-U-SL2-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484077
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8C-750-U-SL2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens with House Side Shield
Light Source: (128) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

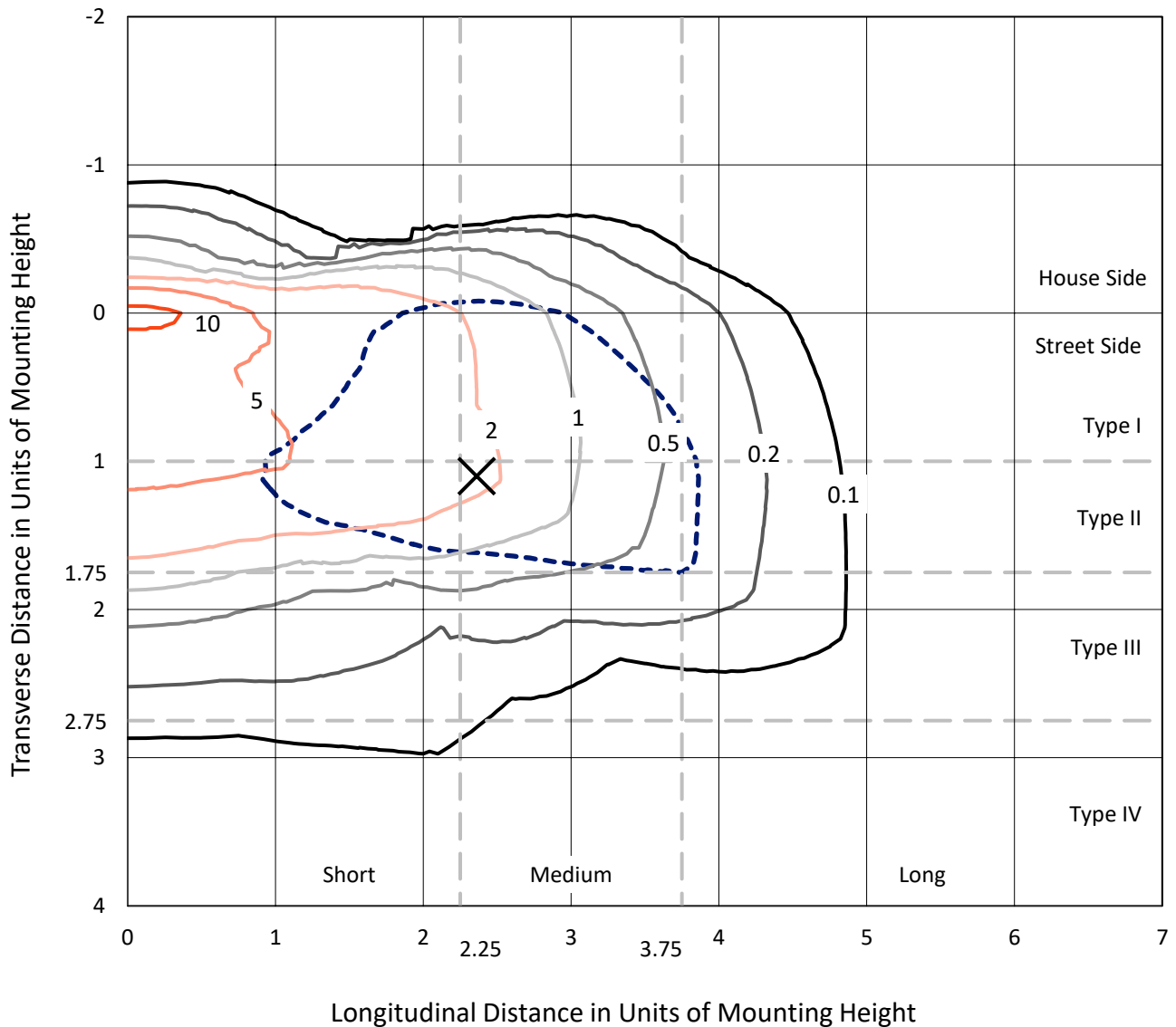
Lumens per Lamp: N/A
Luminaire Lumens: 42654 lumens
Efficiency: N/A
Efficacy: 101.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G5

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

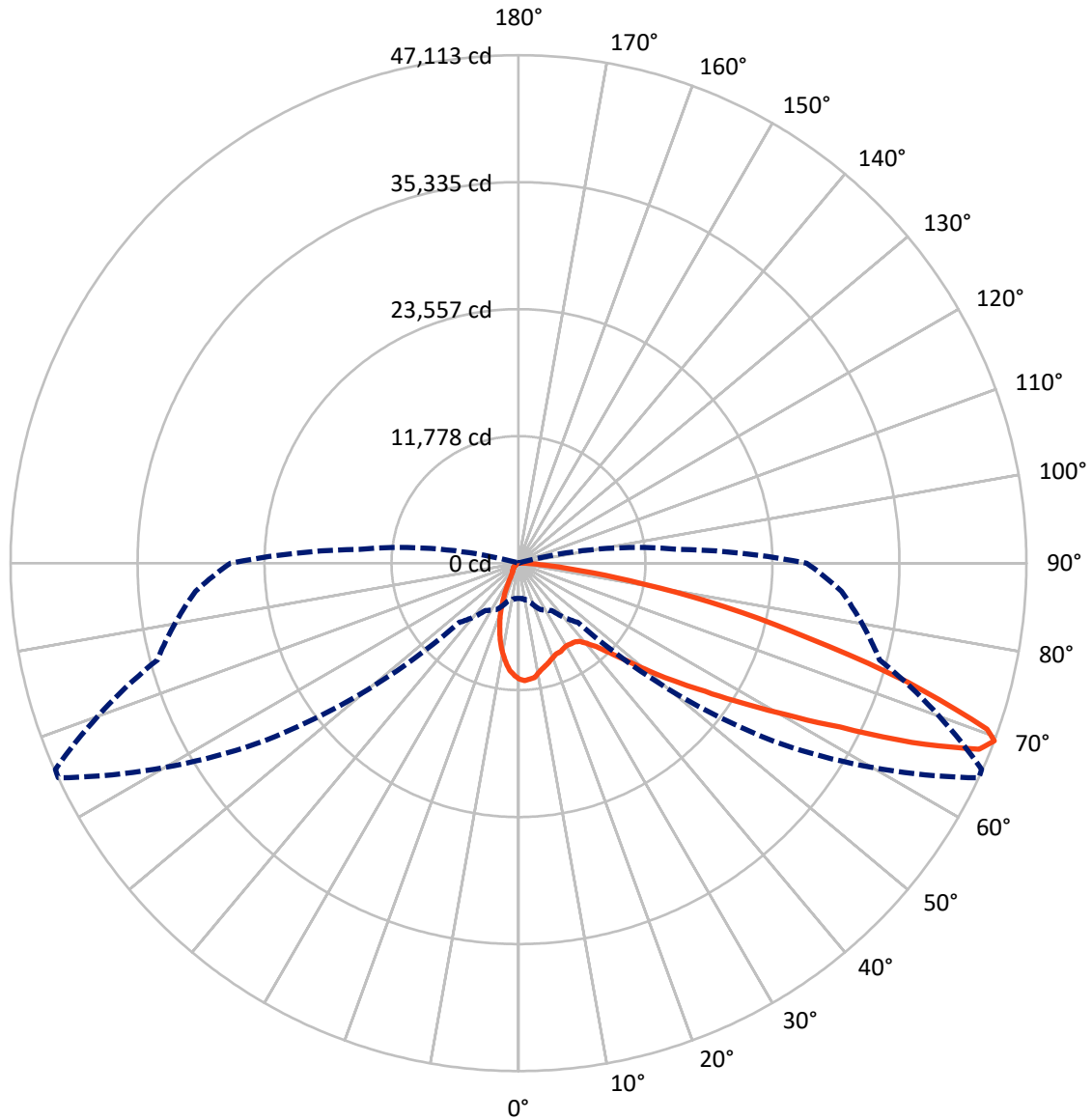
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 11.9 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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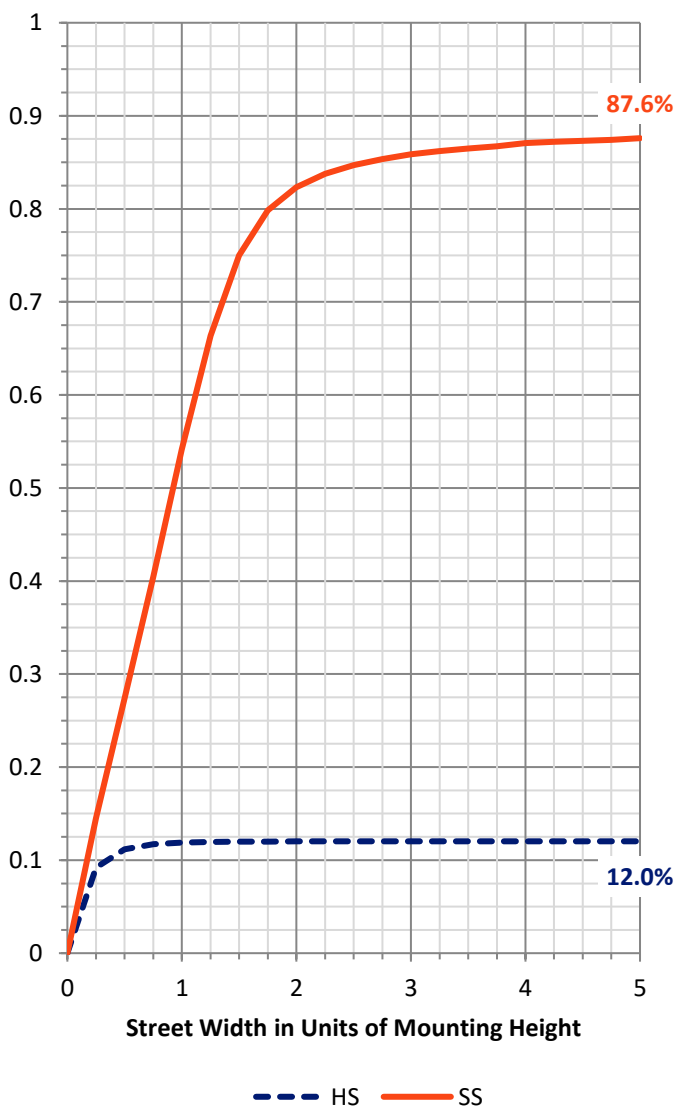
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5174.2	0.0	5174.2
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	37479.8	0.0	37479.8
	% Fixture	87.9	0.0	87.9
Total	Lumens	42654.0	0.0	42654.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	880.0	2.1
10°-20°	1925.5	4.5
20°-30°	2680.7	6.3
30°-40°	3798.9	8.9
40°-50°	5986.8	14.0
50°-60°	9714.6	22.8
60°-70°	10849.2	25.4
70°-80°	6109.4	14.3
80°-90°	708.9	1.7
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°	42654.0	100.0
0°-180°	42654.0	100.0

Coefficient of Utilization



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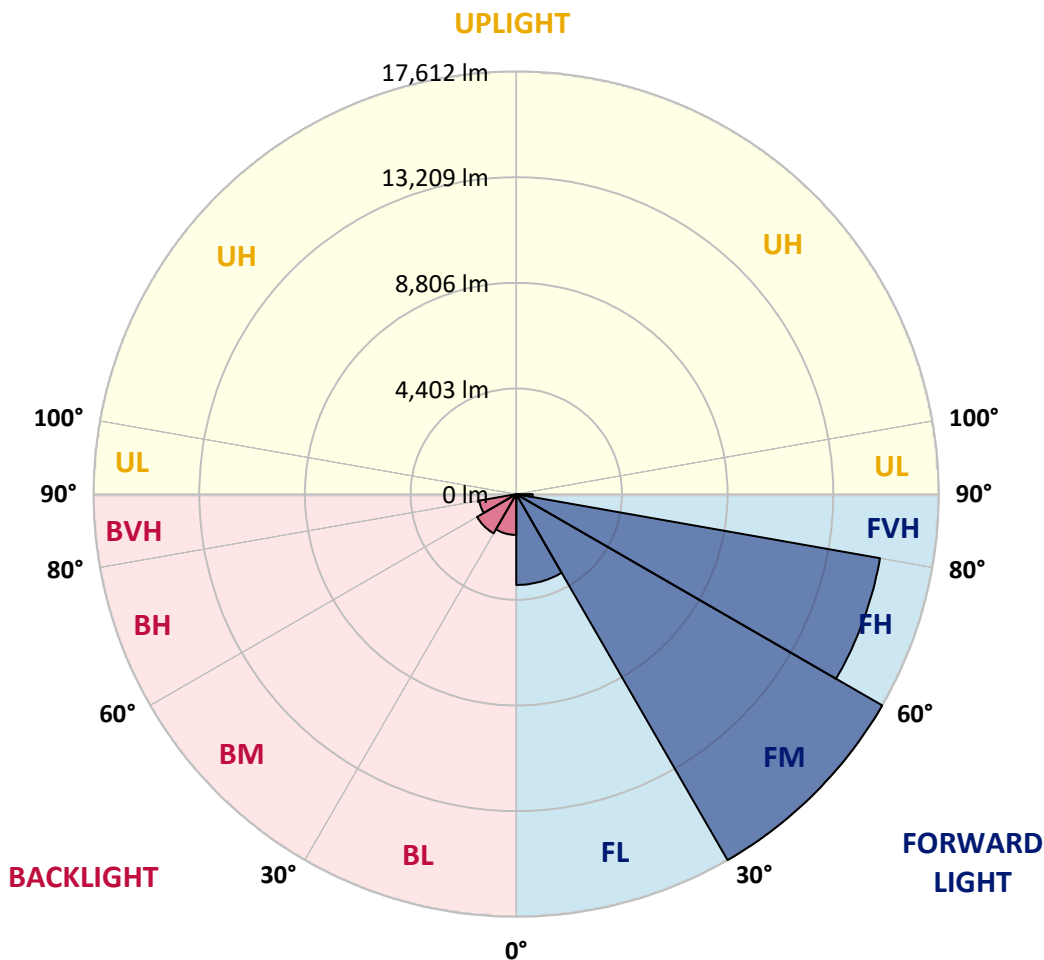
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3785.1	8.9			
FM (30°-60°)	17612.2	41.3			
FH (60°-80°)	15393.1	36.1			G5
FVH (80°-90°)	689.4	1.6			G4/750
BL (0°-30°)	1701.1	4.0	B3/2500		
BM (30°-60°)	1888.0	4.4	B2/2500		
BH (60°-80°)	1565.5	3.7	B3/2500		G3/2500
BVH (80°-90°)	19.6	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	10754.1	10754.1	10754.1	10754.1	10754.1	10754.1	10754.1	10754.1	10754.1	10754.1	10754.1
2.5°	10357.0	10437.6	10460.6	10541.2	10581.5	10754.1	10851.9	10909.4	10880.7	10943.9	10949.7
5°	9620.5	9574.5	9695.3	9781.7	9965.8	10265.0	10569.9	10805.9	10915.2	11018.7	11001.5
7.5°	8832.3	8809.2	8930.1	9125.7	9292.6	9655.1	10144.2	10725.3	10702.3	10955.5	11030.3
10°	8291.4	8314.4	8354.7	8550.3	8797.7	9166.0	9775.9	10316.8	10437.6	10972.7	11122.3
12.5°	7796.6	7836.8	7911.6	8113.0	8400.7	8780.5	9373.1	10006.1	10190.2	10874.9	11174.1
15°	7635.4	7543.4	7693.0	7842.6	8141.8	8481.3	8981.9	9770.1	9850.7	10759.8	11260.4
17.5°	7503.1	7445.6	7514.6	7635.4	7951.9	8228.1	8699.9	9517.0	9666.6	10713.8	11248.9
20°	7543.4	7491.6	7520.4	7612.4	7756.3	8015.2	8452.5	9275.3	9436.4	10500.9	11231.6
22.5°	7658.5	7698.7	7647.0	7670.0	7716.0	7848.3	8320.2	9102.7	9240.8	10460.6	11329.5
25°	8176.3	8107.3	8038.2	8009.5	7739.0	7796.6	8279.9	9091.2	9189.0	10316.8	11248.9
27.5°	8717.2	8659.6	8630.9	8464.0	8095.8	7923.1	8285.6	8930.1	9062.4	10259.2	11151.1
30°	9373.1	9447.9	9332.9	9131.5	8619.4	8193.6	8348.9	8849.5	9033.6	10040.6	11087.8
32.5°	10063.6	10103.9	10161.4	10011.8	9350.1	8602.1	8538.8	8924.3	8935.8	10040.6	10943.9
35°	10846.1	10788.6	10938.2	10949.7	10368.6	9327.1	8901.3	8976.1	9096.9	9994.6	10892.2
37.5°	11519.3	11617.2	11789.8	12066.0	11467.6	10351.3	9465.2	9217.8	9269.6	10207.4	10932.4
40°	12255.8	12353.7	12744.9	13021.1	12681.6	11502.1	10322.5	9781.7	9821.9	10523.9	11139.6
42.5°	13067.1	13257.0	13723.1	14206.4	14114.4	12963.6	11427.3	10610.2	10593.0	11312.2	11565.4
45°	14166.1	14419.3	14925.7	15483.8	15564.3	14638.0	12900.3	11847.3	11904.9	12342.1	12445.7
47.5°	15696.7	15685.2	16180.0	16801.4	17267.5	16375.6	14661.0	13510.2	13504.4	13970.5	13751.9
50°	17175.4	17181.2	17313.5	18032.8	19241.1	18786.5	16841.7	15719.7	15656.4	15886.6	15535.6
52.5°	17860.2	17779.6	17681.8	18550.6	20760.1	21824.6	19603.6	18222.6	18170.9	18032.8	17940.7
55°	17140.9	17169.7	17163.9	18067.3	21559.9	25029.5	23148.0	20978.8	20892.5	20460.9	20587.5
57.5°	14833.6	14741.5	14942.9	16352.6	20645.0	27216.0	28217.2	24454.1	24229.7	22797.0	22509.3
60°	11041.8	11070.5	11237.4	12900.3	18372.3	27676.3	33067.8	28533.7	27567.0	24442.6	24045.6
62.5°	7710.2	7652.7	7716.0	8648.1	13136.2	25835.1	36347.5	33493.5	32561.4	26312.7	26082.5
65°	5518.0	5443.2	5696.4	6266.0	7888.6	19753.2	36813.6	40099.0	39264.7	29298.9	28746.6
67.5°	3970.2	3958.7	4252.1	5287.8	5604.3	11375.5	33361.2	46083.1	45576.8	32843.3	30369.2
69°	3285.5	3291.2	3573.2	4735.5	5351.1	7767.8	28706.3	47113.1	47021.0	34673.1	30064.2
70°	2865.4	2888.5	3216.4	4407.5	5247.6	6386.8	24747.6	46100.4	46008.3	35029.8	29057.3
72.5°	1766.5	1783.7	2215.3	3532.9	4988.6	5213.0	14799.1	37716.9	38033.4	33395.7	25035.3
75°	845.8	851.6	1162.3	2554.7	4810.3	4942.6	7928.9	27831.7	28499.1	26962.8	19563.3
77.5°	448.8	448.8	558.1	1357.9	3895.4	4649.2	4706.7	19632.4	20184.7	17048.9	11122.3
80°	224.4	230.2	339.5	707.7	2416.6	4557.1	3676.8	11709.2	12008.4	6956.5	3463.9
82.5°	86.3	92.1	161.1	425.8	1254.4	3849.4	3227.9	5759.7	5684.9	1628.4	845.8
85°	11.5	11.5	57.5	253.2	535.1	1697.4	2664.1	2405.1	2324.6	356.7	408.5
87.5°	0.0	0.0	11.5	74.8	161.1	494.8	1030.0	661.7	736.5	97.8	201.4
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°	10754.1	10754.1	10754.1	10754.1	10754.1	10754.1	10754.1	10754.1	10754.1	10754.1	10754.1
2.5°	10920.9	10800.1	10616.0	10437.6	10247.7	10017.6	9764.4	9672.3	9511.2	9499.7	9591.8
5°	10909.4	10713.8	10391.6	10011.8	9470.9	9062.4	8619.4	8297.1	8049.7	7888.6	7928.9
7.5°	10967.0	10731.1	10172.9	9355.9	8659.6	7848.3	7163.6	6691.8	6260.3	6047.4	6024.3
10°	10874.9	10558.4	9741.4	8596.3	7572.2	6438.6	5437.4	4804.5	4160.1	3924.2	3935.7
12.5°	10926.7	10483.6	9275.3	7813.8	6404.1	4931.1	3734.3	2871.2	2267.0	2071.4	2048.4
15°	10961.2	10322.5	8826.5	6875.9	5109.5	3360.3	2163.5	1628.4	1438.5	1404.0	1398.2
17.5°	10828.9	10126.9	8193.6	5949.5	3786.1	2042.6	1438.5	1329.2	1294.6	1271.6	1260.1
20°	10823.1	10011.8	7647.0	5000.2	2526.0	1392.4	1242.8	1202.6	1150.8	1133.5	1133.5
22.5°	10725.3	9770.1	6991.0	3958.7	1611.1	1196.8	1116.3	1053.0	995.4	972.4	966.7
25°	10696.5	9488.2	6375.3	2974.8	1225.6	1070.2	989.7	897.6	828.6	794.0	776.8
27.5°	10616.0	9246.5	5753.9	2094.4	1070.2	955.1	851.6	753.8	673.2	621.4	615.7
30°	10328.3	8993.4	5063.4	1450.0	972.4	845.8	730.7	615.7	535.1	500.6	489.1
32.5°	10207.4	8757.5	4309.7	1116.3	886.1	748.0	615.7	512.1	448.8	414.3	408.5
35°	10063.6	8412.2	3578.9	972.4	805.5	650.2	517.9	431.5	379.8	351.0	351.0
37.5°	10080.9	8136.0	2894.2	880.3	719.2	558.1	443.1	368.3	322.2	293.4	293.4
40°	10029.1	7917.4	2249.8	799.8	638.7	477.6	374.0	310.7	270.4	241.7	235.9
42.5°	10265.0	7859.8	1697.4	730.7	558.1	408.5	322.2	264.7	224.4	189.9	189.9
45°	10662.0	7951.9	1323.4	667.5	477.6	351.0	276.2	218.6	178.4	155.4	149.6
47.5°	11720.7	8314.4	1035.7	615.7	408.5	305.0	230.2	178.4	143.8	120.8	115.1
50°	13257.0	9125.7	880.3	540.9	345.2	258.9	189.9	138.1	115.1	92.1	86.3
52.5°	15443.5	10489.4	799.8	477.6	287.7	212.9	149.6	109.3	86.3	69.0	63.3
55°	17825.6	12192.5	725.0	402.8	241.7	172.6	120.8	86.3	63.3	46.0	40.3
57.5°	19684.1	13665.5	661.7	333.7	195.6	138.1	92.1	63.3	46.0	28.8	23.0
60°	21715.3	14701.3	581.1	264.7	161.1	103.6	69.0	46.0	34.5	17.3	17.3
62.5°	23809.7	15915.3	477.6	207.1	126.6	80.6	51.8	34.5	23.0	5.8	5.8
65°	26721.2	16864.7	368.3	161.1	97.8	57.5	40.3	28.8	11.5	0.0	0.0
67.5°	27544.0	16398.7	270.4	126.6	69.0	40.3	28.8	17.3	5.8	0.0	0.0
69°	26721.2	14770.3	235.9	109.3	57.5	34.5	23.0	11.5	5.8	0.0	0.0
70°	25219.4	13504.4	207.1	92.1	51.8	34.5	17.3	11.5	5.8	0.0	0.0
72.5°	21093.9	10357.0	161.1	69.0	40.3	28.8	17.3	11.5	0.0	0.0	0.0
75°	15472.3	6398.4	120.8	51.8	34.5	23.0	17.3	11.5	0.0	0.0	0.0
77.5°	8291.4	2336.1	86.3	34.5	23.0	17.3	17.3	11.5	0.0	0.0	0.0
80°	2272.8	690.5	63.3	23.0	17.3	11.5	11.5	5.8	0.0	0.0	0.0
82.5°	621.4	178.4	40.3	23.0	17.3	11.5	5.8	0.0	0.0	0.0	0.0
85°	333.7	69.0	23.0	17.3	11.5	5.8	0.0	0.0	0.0	0.0	0.0
87.5°	172.6	23.0	17.3	11.5	11.5	5.8	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)