

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: P484187

Luminaire Tested: **IFLD-L-SA7A-830-U-SL2-HSS**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P484187  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7A-830-U-SL2-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens with House Side Shield  
Light Source: (112) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

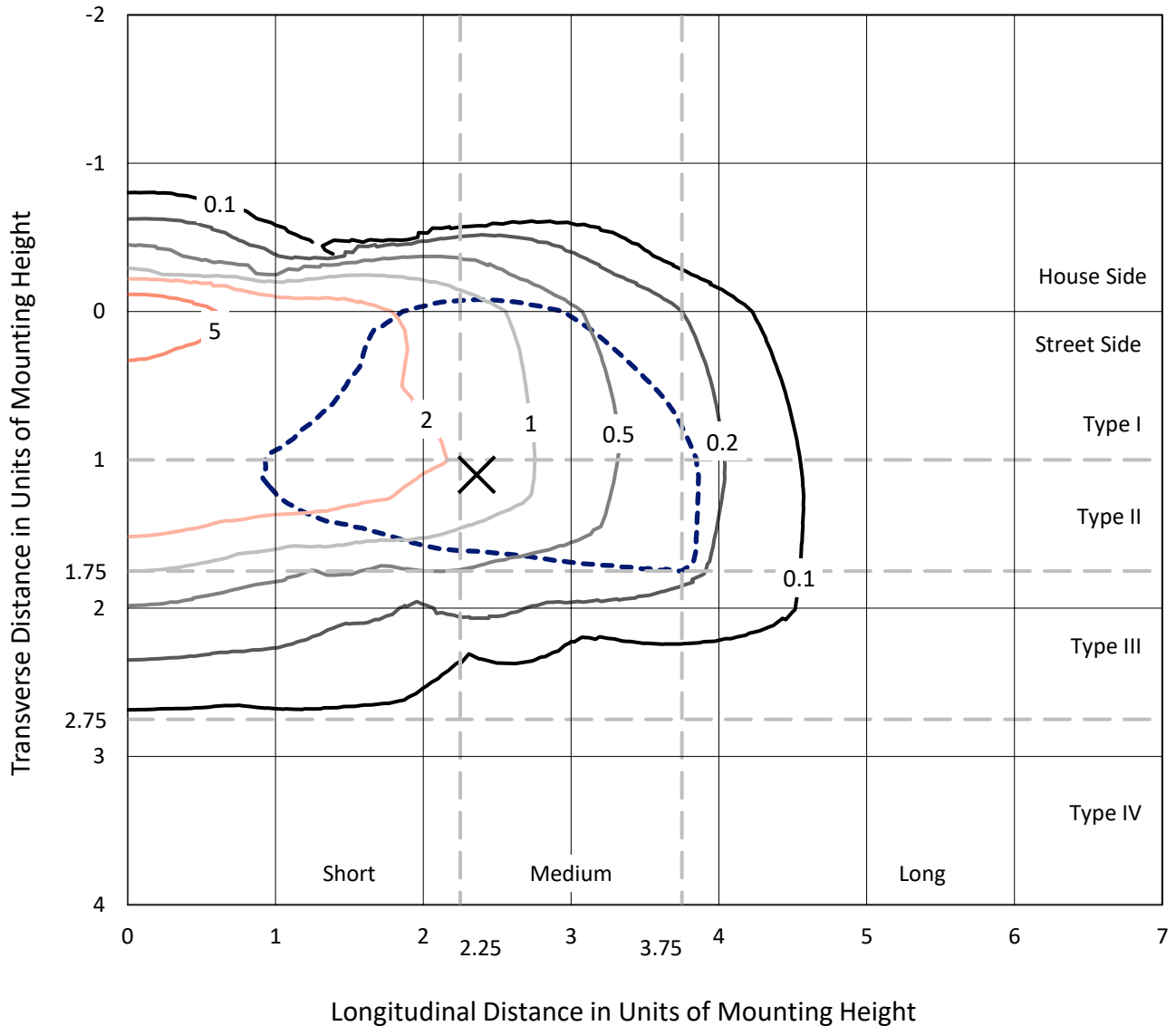
Lumens per Lamp: N/A  
Luminaire Lumens: 20470.5 lumens  
Efficiency: N/A  
Efficacy: 94.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G3

Input Watts (W): 217.6  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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

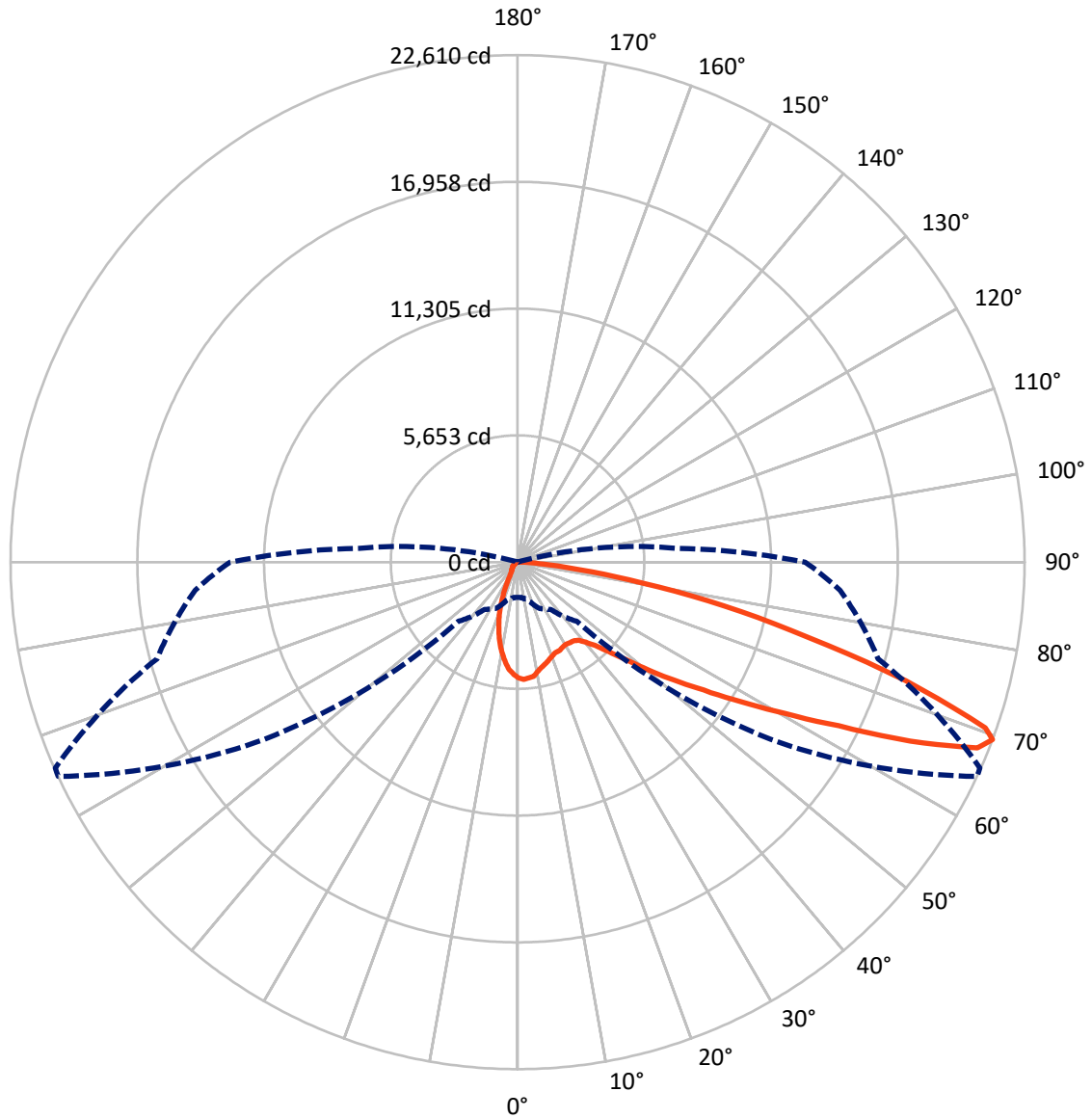
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 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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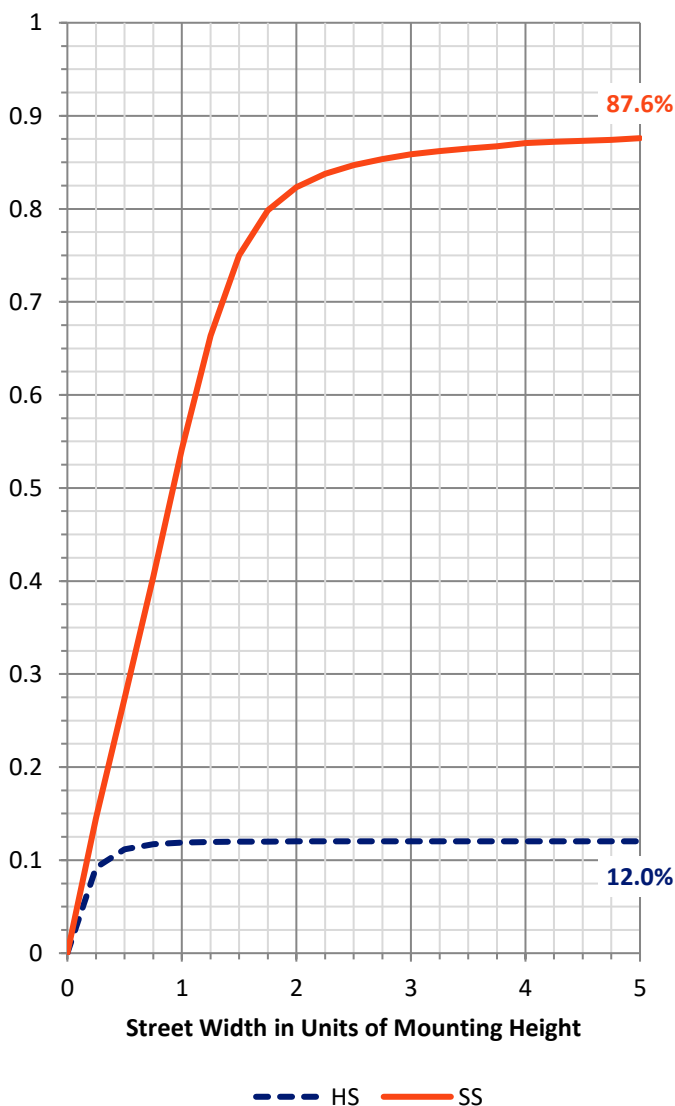
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2483.2	0.0	2483.2
	% Fixture	12.1	0.0	12.1
<b>Street Side</b>	Lumens	17987.3	0.0	17987.3
	% Fixture	87.9	0.0	87.9
<b>Total</b>	Lumens	20470.5	0.0	20470.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	422.3	2.1
10°-20°	924.1	4.5
20°-30°	1286.5	6.3
30°-40°	1823.1	8.9
40°-50°	2873.2	14.0
50°-60°	4662.2	22.8
60°-70°	5206.7	25.4
70°-80°	2932.0	14.3
80°-90°	340.2	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°	20470.5	100.0
0°-180°	20470.5	100.0

**Coefficient of Utilization**



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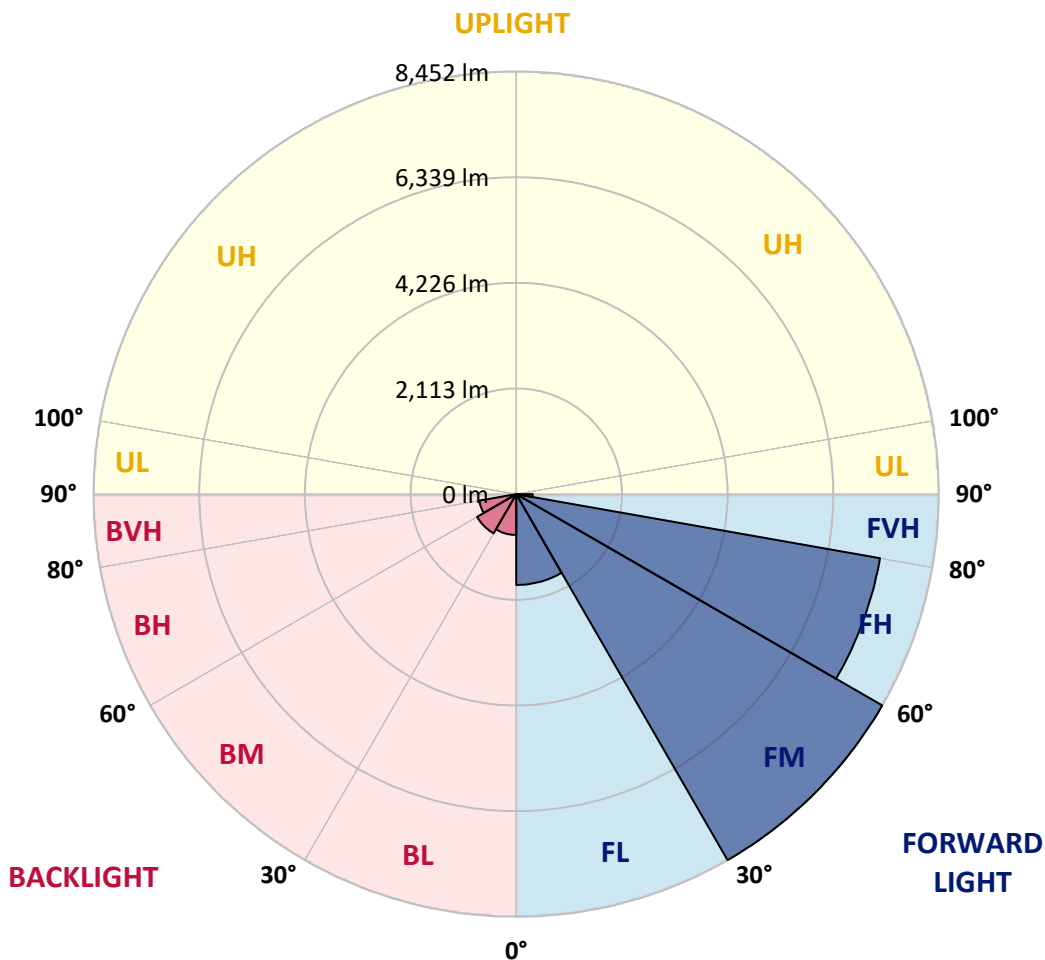
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1816.6	8.9			
FM (30°-60°)	8452.4	41.3			
FH (60°-80°)	7387.4	36.1			G3/7500
FVH (80°-90°)	330.8	1.6			G3/500
BL (0°-30°)	816.4	4.0	B2/1000		
BM (30°-60°)	906.1	4.4	B1/1000		
BH (60°-80°)	751.3	3.7	B2/1000		G2/1000
BVH (80°-90°)	9.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G3**

Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	5161.1	5161.1	5161.1	5161.1	5161.1	5161.1	5161.1	5161.1	5161.1	5161.1	5161.1
2.5°	4970.5	5009.2	5020.2	5058.9	5078.2	5161.1	5208.0	5235.6	5221.8	5252.2	5255.0
5°	4617.1	4595.0	4653.0	4694.4	4782.8	4926.4	5072.7	5185.9	5238.4	5288.1	5279.8
7.5°	4238.8	4227.7	4285.7	4379.6	4459.7	4633.6	4868.4	5147.3	5136.2	5257.7	5293.6
10°	3979.2	3990.2	4009.6	4103.5	4222.2	4398.9	4691.6	4951.2	5009.2	5266.0	5337.8
12.5°	3741.7	3761.0	3796.9	3893.6	4031.7	4213.9	4498.3	4802.1	4890.5	5219.1	5362.7
15°	3664.4	3620.2	3692.0	3763.8	3907.4	4070.3	4310.6	4688.9	4727.5	5163.8	5404.1
17.5°	3600.9	3573.3	3606.4	3664.4	3816.3	3948.8	4175.3	4567.4	4639.2	5141.7	5398.6
20°	3620.2	3595.4	3609.2	3653.3	3722.4	3846.6	4056.5	4451.4	4528.7	5039.6	5390.3
22.5°	3675.4	3694.8	3669.9	3681.0	3703.1	3766.6	3993.0	4368.6	4434.8	5020.2	5437.2
25°	3924.0	3890.8	3857.7	3843.9	3714.1	3741.7	3973.7	4363.0	4410.0	4951.2	5398.6
27.5°	4183.5	4155.9	4142.1	4062.0	3885.3	3802.5	3976.4	4285.7	4349.2	4923.6	5351.6
30°	4498.3	4534.2	4479.0	4382.4	4136.6	3932.3	4006.8	4247.1	4335.4	4818.7	5321.2
32.5°	4829.7	4849.0	4876.7	4804.9	4487.3	4128.3	4097.9	4282.9	4288.5	4818.7	5252.2
35°	5205.3	5177.6	5249.4	5255.0	4976.1	4476.2	4271.9	4307.8	4365.8	4796.6	5227.4
37.5°	5528.3	5575.3	5658.1	5790.7	5503.5	4967.8	4542.5	4423.8	4448.6	4898.7	5246.7
40°	5881.8	5928.8	6116.5	6249.1	6086.2	5520.1	4954.0	4694.4	4713.7	5050.6	5346.1
42.5°	6271.2	6362.3	6586.0	6817.9	6773.7	6221.5	5484.2	5092.0	5083.8	5428.9	5550.4
45°	6798.6	6920.1	7163.1	7431.0	7469.6	7025.0	6191.1	5685.7	5713.4	5923.2	5972.9
47.5°	7533.1	7527.6	7765.1	8063.3	8287.0	7859.0	7036.1	6483.8	6481.0	6704.7	6599.8
50°	8242.8	8245.6	8309.1	8654.3	9234.2	9016.0	8082.7	7544.2	7513.8	7624.3	7455.8
52.5°	8571.4	8532.8	8485.8	8902.8	9963.2	10474.0	9408.1	8745.4	8720.5	8654.3	8610.1
55°	8226.2	8240.1	8237.3	8670.8	10347.0	12012.1	11109.2	10068.1	10026.7	9819.6	9880.3
57.5°	7118.9	7074.7	7171.4	7847.9	9907.9	13061.5	13542.0	11736.0	11628.3	10940.7	10802.6
60°	5299.1	5313.0	5393.0	6191.1	8817.2	13282.4	15869.8	13693.8	13229.9	11730.5	11539.9
62.5°	3700.3	3672.7	3703.1	4150.4	6304.3	12398.7	17443.8	16074.2	15626.8	12627.9	12517.5
65°	2648.2	2612.3	2733.8	3007.2	3785.9	9479.9	17667.5	19244.3	18843.9	14061.1	13796.0
67.5°	1905.4	1899.9	2040.7	2537.7	2689.6	5459.3	16010.7	22116.1	21873.1	15762.1	14574.7
69°	1576.8	1579.5	1714.8	2272.6	2568.1	3727.9	13776.7	22610.4	22566.3	16640.3	14428.4
70°	1375.2	1386.2	1543.6	2115.2	2518.4	3065.2	11876.8	22124.4	22080.2	16811.5	13945.1
72.5°	847.8	856.0	1063.1	1695.5	2394.1	2501.8	7102.4	18101.1	18252.9	16027.2	12014.9
75°	405.9	408.7	557.8	1226.1	2308.5	2372.1	3805.2	13356.9	13677.3	12940.0	9388.8
77.5°	215.4	215.4	267.9	651.7	1869.5	2231.2	2258.8	9421.9	9687.0	8182.1	5337.8
80°	107.7	110.5	162.9	339.7	1159.8	2187.0	1764.5	5619.5	5763.1	3338.5	1662.4
82.5°	41.4	44.2	77.3	204.3	602.0	1847.4	1549.2	2764.2	2728.3	781.5	405.9
85°	5.5	5.5	27.6	121.5	256.8	814.6	1278.5	1154.3	1115.6	171.2	196.1
87.5°	0.0	0.0	5.5	35.9	77.3	237.5	494.3	317.6	353.5	46.9	96.6
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°	5161.1	5161.1	5161.1	5161.1	5161.1	5161.1	5161.1	5161.1	5161.1	5161.1	5161.1
2.5°	5241.2	5183.2	5094.8	5009.2	4918.1	4807.6	4686.1	4641.9	4564.6	4559.1	4603.3
5°	5235.6	5141.7	4987.1	4804.9	4545.3	4349.2	4136.6	3982.0	3863.2	3785.9	3805.2
7.5°	5263.3	5150.0	4882.2	4490.1	4155.9	3766.6	3438.0	3211.5	3004.4	2902.2	2891.2
10°	5219.1	5067.2	4675.1	4125.5	3634.0	3090.0	2609.5	2305.8	1996.5	1883.3	1888.8
12.5°	5243.9	5031.3	4451.4	3750.0	3073.5	2366.5	1792.2	1377.9	1088.0	994.1	983.1
15°	5260.5	4954.0	4236.0	3299.9	2452.1	1612.7	1038.3	781.5	690.4	673.8	671.0
17.5°	5197.0	4860.1	3932.3	2855.3	1817.0	980.3	690.4	637.9	621.3	610.3	604.7
20°	5194.2	4804.9	3669.9	2399.7	1212.3	668.3	596.5	577.1	552.3	544.0	544.0
22.5°	5147.3	4688.9	3355.1	1899.9	773.2	574.4	535.7	505.3	477.7	466.7	463.9
25°	5133.5	4553.6	3059.6	1427.6	588.2	513.6	475.0	430.8	397.6	381.1	372.8
27.5°	5094.8	4437.6	2761.4	1005.2	513.6	458.4	408.7	361.7	323.1	298.2	295.5
30°	4956.7	4316.1	2430.0	695.9	466.7	405.9	350.7	295.5	256.8	240.2	234.7
32.5°	4898.7	4202.9	2068.3	535.7	425.3	359.0	295.5	245.8	215.4	198.8	196.1
35°	4829.7	4037.2	1717.6	466.7	386.6	312.0	248.5	207.1	182.3	168.4	168.4
37.5°	4838.0	3904.6	1389.0	422.5	345.2	267.9	212.6	176.7	154.6	140.8	140.8
40°	4813.1	3799.7	1079.7	383.8	306.5	229.2	179.5	149.1	129.8	116.0	113.2
42.5°	4926.4	3772.1	814.6	350.7	267.9	196.1	154.6	127.0	107.7	91.1	91.1
45°	5116.9	3816.3	635.1	320.3	229.2	168.4	132.5	104.9	85.6	74.6	71.8
47.5°	5625.0	3990.2	497.1	295.5	196.1	146.4	110.5	85.6	69.0	58.0	55.2
50°	6362.3	4379.6	422.5	259.6	165.7	124.3	91.1	66.3	55.2	44.2	41.4
52.5°	7411.6	5034.1	383.8	229.2	138.1	102.2	71.8	52.5	41.4	33.1	30.4
55°	8554.9	5851.4	347.9	193.3	116.0	82.8	58.0	41.4	30.4	22.1	19.3
57.5°	9446.8	6558.4	317.6	160.2	93.9	66.3	44.2	30.4	22.1	13.8	11.0
60°	10421.6	7055.4	278.9	127.0	77.3	49.7	33.1	22.1	16.6	8.3	8.3
62.5°	11426.7	7638.1	229.2	99.4	60.8	38.7	24.9	16.6	11.0	2.8	2.8
65°	12824.0	8093.7	176.7	77.3	46.9	27.6	19.3	13.8	5.5	0.0	0.0
67.5°	13218.9	7870.0	129.8	60.8	33.1	19.3	13.8	8.3	2.8	0.0	0.0
69°	12824.0	7088.5	113.2	52.5	27.6	16.6	11.0	5.5	2.8	0.0	0.0
70°	12103.3	6481.0	99.4	44.2	24.9	16.6	8.3	5.5	2.8	0.0	0.0
72.5°	10123.3	4970.5	77.3	33.1	19.3	13.8	8.3	5.5	0.0	0.0	0.0
75°	7425.4	3070.7	58.0	24.9	16.6	11.0	8.3	5.5	0.0	0.0	0.0
77.5°	3979.2	1121.1	41.4	16.6	11.0	8.3	8.3	5.5	0.0	0.0	0.0
80°	1090.8	331.4	30.4	11.0	8.3	5.5	5.5	2.8	0.0	0.0	0.0
82.5°	298.2	85.6	19.3	11.0	8.3	5.5	2.8	0.0	0.0	0.0	0.0
85°	160.2	33.1	11.0	8.3	5.5	2.8	0.0	0.0	0.0	0.0	0.0
87.5°	82.8	11.0	8.3	5.5	5.5	2.8	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)