

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: P484973

Luminaire Tested: **IFLD-L-SA8B-830-U-SL4-HSS**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P484973  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8B-830-U-SL4-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens with House Side Shield  
Light Source: (128) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

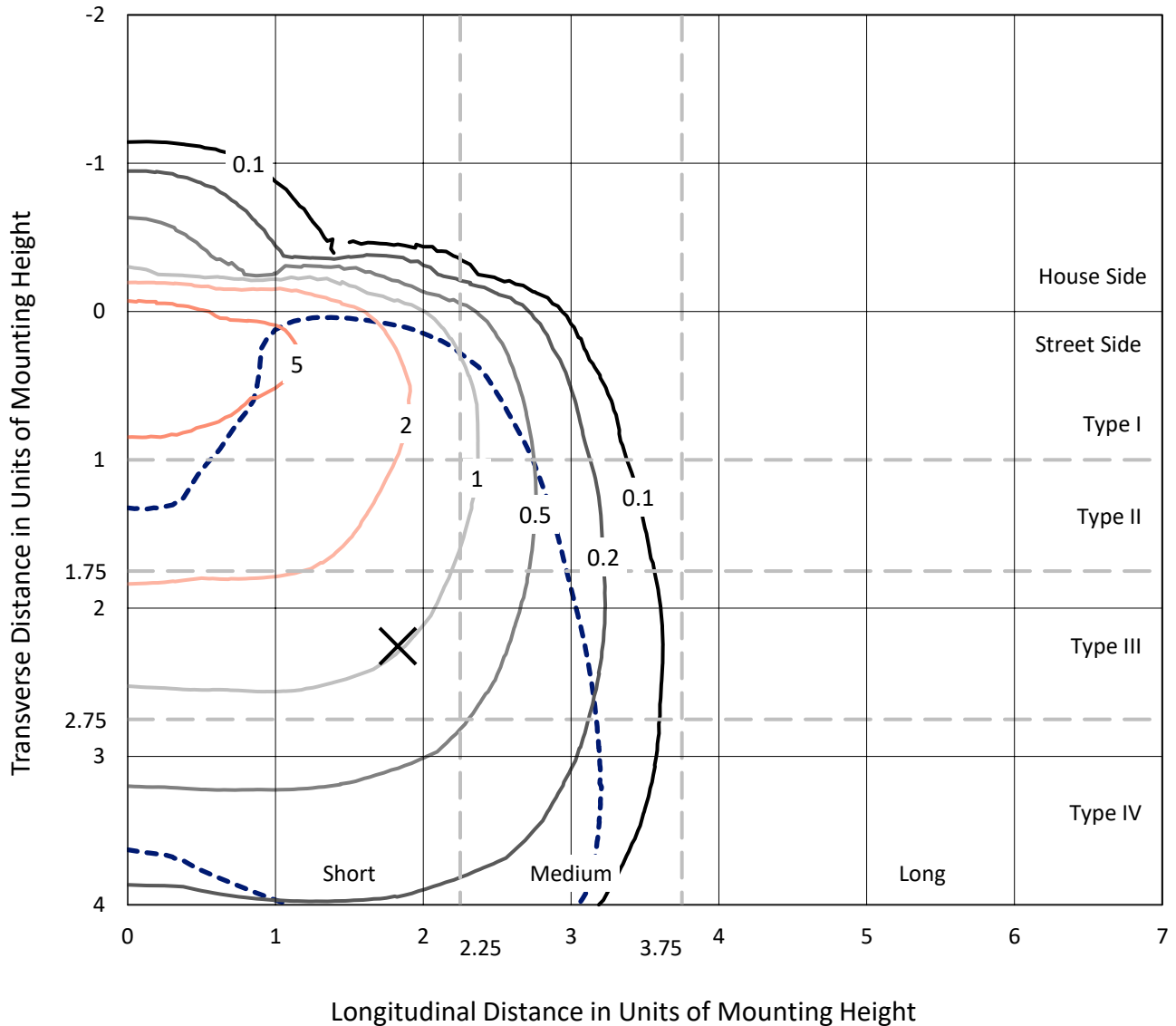
Lumens per Lamp: N/A  
Luminaire Lumens: 26716 lumens  
Efficiency: N/A  
Efficacy: 83.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4

Input Watts (W): 320  
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

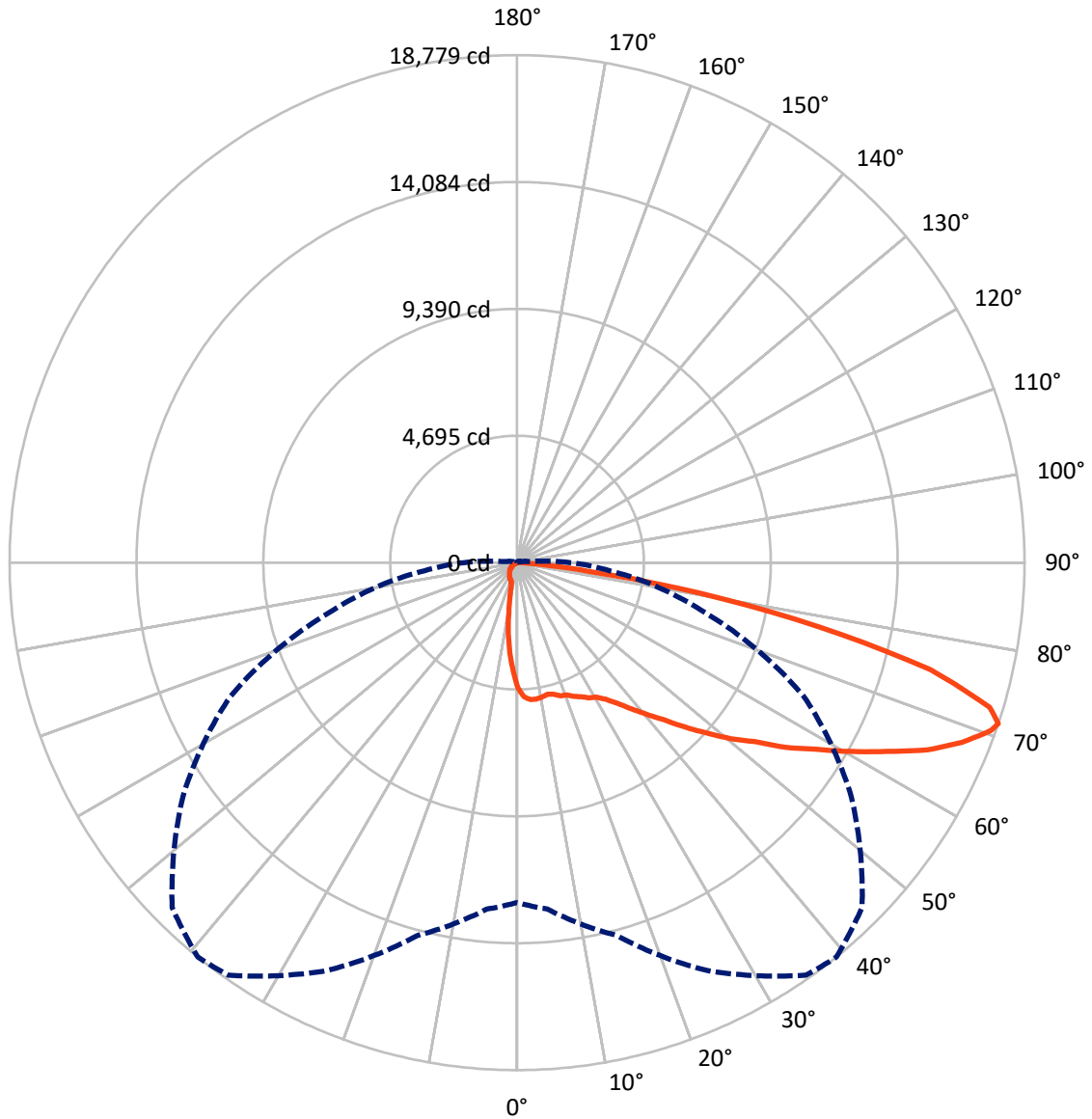
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.1 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral      - - - Horizontal Cone Through 71-Deg Vertical

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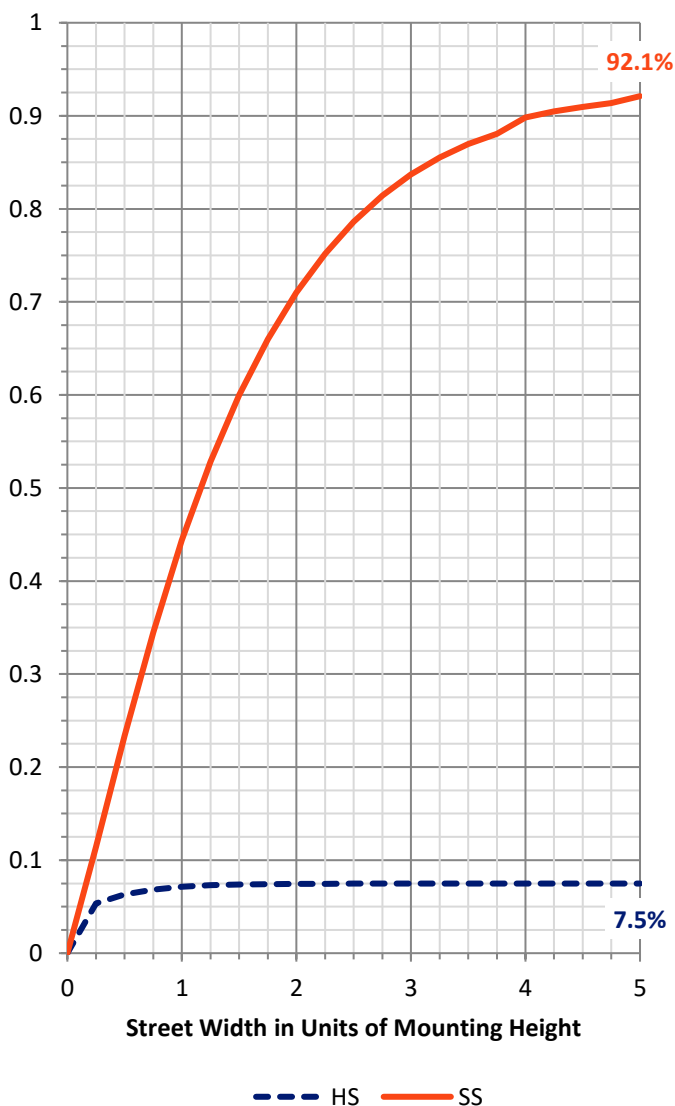
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2011.3	0.0	2011.3
	% Fixture	7.5	0.0	7.5
<b>Street Side</b>	Lumens	24704.7	0.0	24704.7
	% Fixture	92.5	0.0	92.5
<b>Total</b>	Lumens	26716.0	0.0	26716.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	388.8	1.5
10°-20°	956.9	3.6
20°-30°	1536.2	5.8
30°-40°	2351.5	8.8
40°-50°	3774.6	14.1
50°-60°	5544.3	20.8
60°-70°	6982.8	26.1
70°-80°	4660.1	17.4
80°-90°	520.8	1.9
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°	26716.0	100.0
0°-180°	26716.0	100.0

**Coefficient of Utilization**



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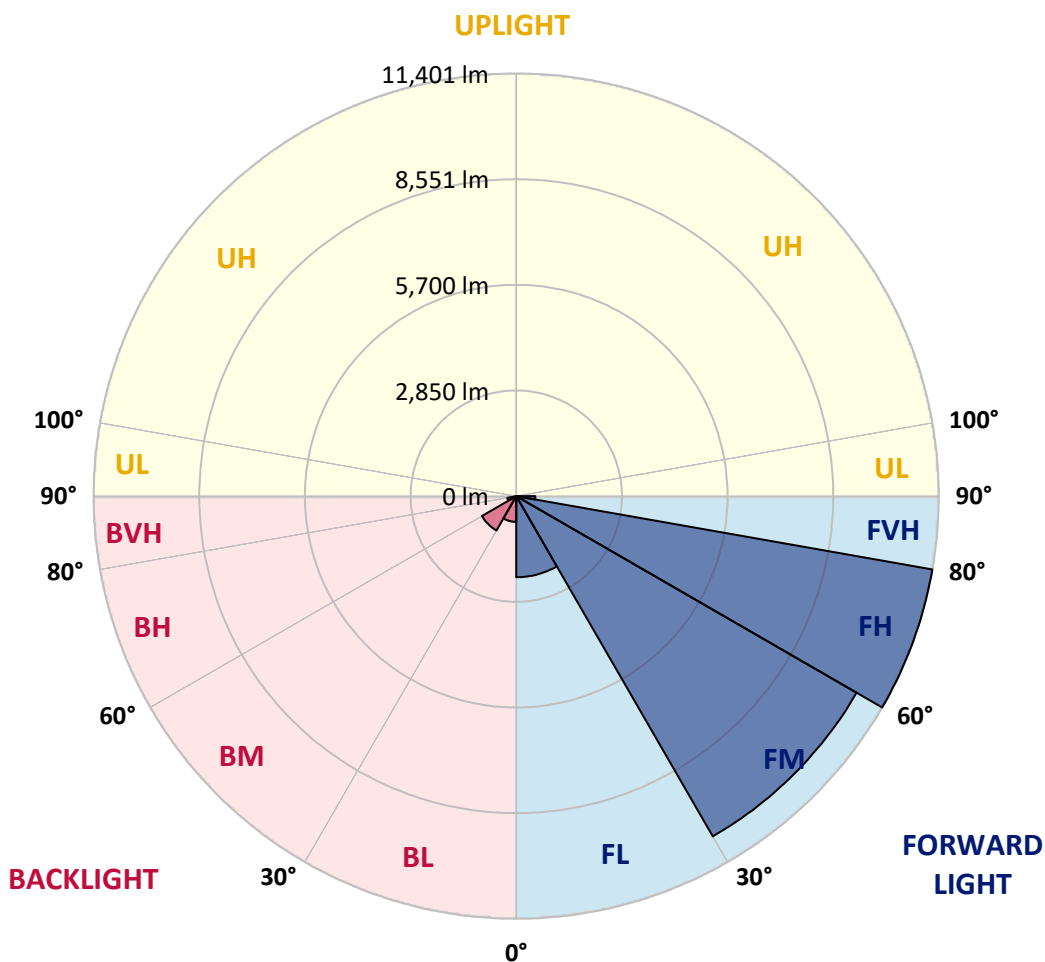
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2187.5	8.2			
FM (30°-60°)	10601.3	39.7			
FH (60°-80°)	11400.9	42.7			G4/12000
FVH (80°-90°)	515.1	1.9			G4/750
BL (0°-30°)	694.4	2.6	B2/1000		
BM (30°-60°)	1069.1	4.0	B2/2500		
BH (60°-80°)	242.1	0.9	B1/500		G1/500
BVH (80°-90°)	5.7	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-G4**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	4650.1	4650.1	4650.1	4650.1	4650.1	4650.1	4650.1	4650.1	4650.1	4650.1	4650.1
2.5°	5011.0	5060.1	5011.0	4990.0	4969.0	4972.5	4916.4	4926.9	4860.3	4772.7	4702.6
5°	5168.7	5235.3	5182.7	5158.2	5154.7	5088.1	5060.1	4993.5	4912.9	4776.2	4692.1
7.5°	5154.7	5140.7	5165.2	5144.2	5098.6	5098.6	5067.1	4972.5	4891.9	4737.7	4594.0
10°	5049.6	5091.6	5070.6	5046.1	5056.6	5060.1	5000.5	4933.9	4909.4	4755.2	4520.4
12.5°	5039.0	4969.0	5046.1	5049.6	5004.0	5000.5	4993.5	4976.0	4898.9	4758.7	4537.9
15°	5004.0	4976.0	5053.1	5056.6	5067.1	5056.6	5067.1	5053.1	4976.0	4895.4	4615.0
17.5°	5032.0	5000.5	5109.1	5161.7	5137.2	5186.2	5168.7	5105.6	5039.0	4944.4	4688.6
20°	5039.0	5084.6	5203.7	5224.8	5301.9	5221.3	5217.8	5151.2	5109.1	5007.5	4734.2
22.5°	5168.7	5189.7	5336.9	5382.5	5386.0	5375.5	5287.8	5210.8	5193.2	5067.1	4744.7
25°	5364.9	5438.5	5505.1	5533.1	5543.7	5494.6	5403.5	5305.4	5263.3	5182.7	4853.3
27.5°	5711.9	5666.3	5725.9	5767.9	5648.8	5666.3	5550.7	5466.6	5407.0	5336.9	4979.5
30°	6020.2	5978.2	5981.7	5974.7	5873.1	5778.4	5746.9	5599.7	5526.1	5554.2	5175.7
32.5°	6297.1	6206.0	6283.0	6248.0	6058.8	6030.7	6006.2	5820.5	5834.5	5964.2	5470.1
35°	6552.9	6521.3	6584.4	6521.3	6395.2	6388.2	6363.6	6202.4	6279.5	6465.3	5974.7
37.5°	6787.6	6798.2	6875.3	6843.7	6854.2	6861.2	6847.2	6675.5	6896.3	7313.3	6563.4
40°	7004.9	6990.9	7180.1	7278.2	7299.3	7376.4	7376.4	7334.3	7674.2	8143.8	7379.9
42.5°	7236.2	7271.2	7516.5	7681.2	7881.0	7947.5	8038.7	8059.7	8585.3	9121.5	8213.9
45°	7614.6	7555.1	7866.9	8255.9	8431.1	8665.9	8806.1	8925.2	9559.5	10295.4	9047.9
47.5°	8094.7	7975.6	8248.9	8813.1	9219.6	9412.3	9664.6	9822.3	10442.5	11202.9	9836.3
50°	8627.4	8504.7	8637.9	9415.8	9888.9	10239.3	10561.7	10761.4	11511.3	12219.2	10411.0
52.5°	9230.1	9117.9	9139.0	10043.1	10740.4	10996.2	11420.2	11718.1	12464.5	12832.4	10614.2
55°	9871.4	9843.3	9776.7	10656.3	11486.8	12061.5	12317.3	12674.7	13442.1	13165.3	10835.0
57.5°	10516.1	10428.5	10523.1	11469.3	12685.2	13028.6	13382.6	13596.3	13985.3	13456.2	10750.9
60°	11122.4	11129.4	11262.5	12352.3	13705.0	14192.0	14510.9	14381.3	14542.5	13582.3	10558.2
62.5°	11634.0	11620.0	11956.4	13344.0	15054.1	15383.5	15621.8	15043.6	14801.8	13705.0	10221.8
65°	12093.0	12250.7	12779.8	14524.9	16322.6	16701.1	16557.4	15670.8	15054.1	13344.0	9275.6
67.5°	12439.9	12674.7	13592.8	15635.8	17486.0	17752.3	17552.6	16147.4	14756.2	11928.3	7555.1
70°	12643.2	12881.5	14174.5	16560.9	18414.6	18607.3	18137.8	15779.4	13018.1	8637.9	4713.2
71°	12580.1	12871.0	14286.7	16659.0	18635.4	18779.0	18050.2	15099.6	11707.6	7232.7	3437.6
72.5°	12008.9	12282.2	13820.6	16588.9	18369.1	18281.4	17366.8	13466.7	9216.1	4611.5	1776.6
75°	8823.6	9117.9	11861.7	14349.7	16396.2	15793.5	14055.4	9450.8	4807.8	1412.2	518.6
77.5°	4394.3	4443.3	7362.3	10418.0	12026.4	11427.2	9419.3	5270.3	1797.7	417.0	259.3
80°	2025.4	2039.4	2761.3	5396.5	7271.2	6843.7	5277.3	2600.1	813.0	220.8	203.2
82.5°	1380.7	1401.7	1664.5	2235.7	3157.3	2663.2	2137.6	1664.5	466.1	133.2	199.7
85°	252.3	231.3	932.1	1184.4	1219.5	827.0	739.4	1440.2	175.2	77.1	175.2
87.5°	0.0	3.5	129.7	483.6	434.5	192.7	252.3	350.4	17.5	24.5	31.5
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°	4650.1	4650.1	4650.1	4650.1	4650.1	4650.1	4650.1	4650.1	4650.1	4650.1	4650.1
2.5°	4643.1	4604.5	4474.9	4331.2	4201.5	4099.9	3970.3	3910.7	3816.1	3763.5	3760.0
5°	4576.5	4471.4	4247.1	4005.3	3735.5	3511.2	3262.4	3122.2	2961.1	2912.0	2901.5
7.5°	4464.4	4313.7	3984.3	3644.4	3230.9	2834.9	2530.0	2204.1	2004.4	1920.3	1888.8
10°	4394.3	4212.1	3763.5	3255.4	2677.2	2120.0	1692.5	1345.6	1163.4	1075.8	1054.8
12.5°	4394.3	4198.0	3584.8	2884.0	2116.5	1450.7	1047.8	848.0	788.4	767.4	767.4
15°	4383.8	4170.0	3413.1	2502.0	1566.4	974.2	781.4	739.4	732.4	728.9	725.4
17.5°	4436.3	4120.9	3237.9	2092.0	1107.3	767.4	718.4	711.4	704.3	704.3	697.3
20°	4474.9	4092.9	3027.6	1657.5	827.0	711.4	690.3	679.8	676.3	672.8	679.8
22.5°	4443.3	4050.9	2768.3	1240.5	721.9	676.3	662.3	651.8	644.8	644.8	648.3
25°	4502.9	4012.3	2509.0	935.6	676.3	644.8	630.8	623.7	620.2	616.7	609.7
27.5°	4583.5	4029.8	2200.6	753.4	637.8	613.2	599.2	592.2	588.7	581.7	588.7
30°	4681.6	4026.3	1860.7	658.8	602.7	578.2	564.2	560.7	553.7	550.2	553.7
32.5°	4849.8	4117.4	1510.3	609.7	564.2	543.2	529.1	525.6	522.1	518.6	515.1
35°	5210.8	4229.6	1180.9	571.2	529.1	504.6	494.1	487.1	483.6	480.1	476.6
37.5°	5655.8	4478.4	900.6	536.1	494.1	469.6	459.1	455.5	441.5	438.0	434.5
40°	6213.0	4744.7	693.8	497.6	462.6	438.0	427.5	417.0	399.5	392.5	385.5
42.5°	6906.8	5004.0	571.2	462.6	427.5	410.0	392.5	375.0	360.9	346.9	339.9
45°	7600.6	5305.4	501.1	431.0	399.5	378.5	364.4	339.9	315.4	294.4	290.8
47.5°	8178.8	5414.0	459.1	396.0	371.4	353.9	332.9	301.4	266.3	245.3	241.8
50°	8609.8	5350.9	417.0	360.9	339.9	322.4	294.4	255.8	220.8	199.7	192.7
52.5°	8693.9	5074.1	378.5	332.9	308.4	287.3	255.8	213.8	175.2	154.2	150.7
55°	8634.4	4615.0	346.9	308.4	280.3	248.8	213.8	171.7	136.7	115.6	112.1
57.5°	8511.7	4071.9	311.9	276.8	245.3	213.8	175.2	140.2	101.6	80.6	80.6
60°	8094.7	3332.5	276.8	241.8	210.3	182.2	143.7	101.6	70.1	52.6	49.1
62.5°	7513.0	2561.6	241.8	206.7	182.2	150.7	112.1	73.6	42.1	28.0	28.0
65°	6451.2	1794.2	203.2	171.7	150.7	122.6	84.1	45.6	24.5	10.5	10.5
67.5°	4902.4	1110.8	168.2	143.7	129.7	98.1	59.6	28.0	10.5	3.5	0.0
70°	2813.9	578.2	133.2	115.6	101.6	73.6	42.1	14.0	7.0	0.0	0.0
71°	1965.9	427.5	119.1	101.6	91.1	66.6	35.0	10.5	3.5	0.0	0.0
72.5°	984.7	283.8	101.6	84.1	73.6	52.6	28.0	10.5	3.5	0.0	0.0
75°	350.4	182.2	70.1	56.1	52.6	38.5	17.5	7.0	3.5	0.0	0.0
77.5°	241.8	147.2	49.1	35.0	35.0	24.5	10.5	3.5	3.5	0.0	0.0
80°	220.8	80.6	31.5	21.0	17.5	14.0	7.0	3.5	0.0	0.0	0.0
82.5°	220.8	59.6	17.5	14.0	10.5	7.0	3.5	0.0	0.0	0.0	0.0
85°	154.2	31.5	10.5	10.5	7.0	3.5	0.0	0.0	0.0	0.0	0.0
87.5°	24.5	10.5	7.0	3.5	3.5	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)