

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: P484182

Luminaire Tested: **IFLD-M-SA4A-830-U-SL2-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P484182  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4A-830-U-SL2-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens with House Side Shield  
Light Source: (64) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

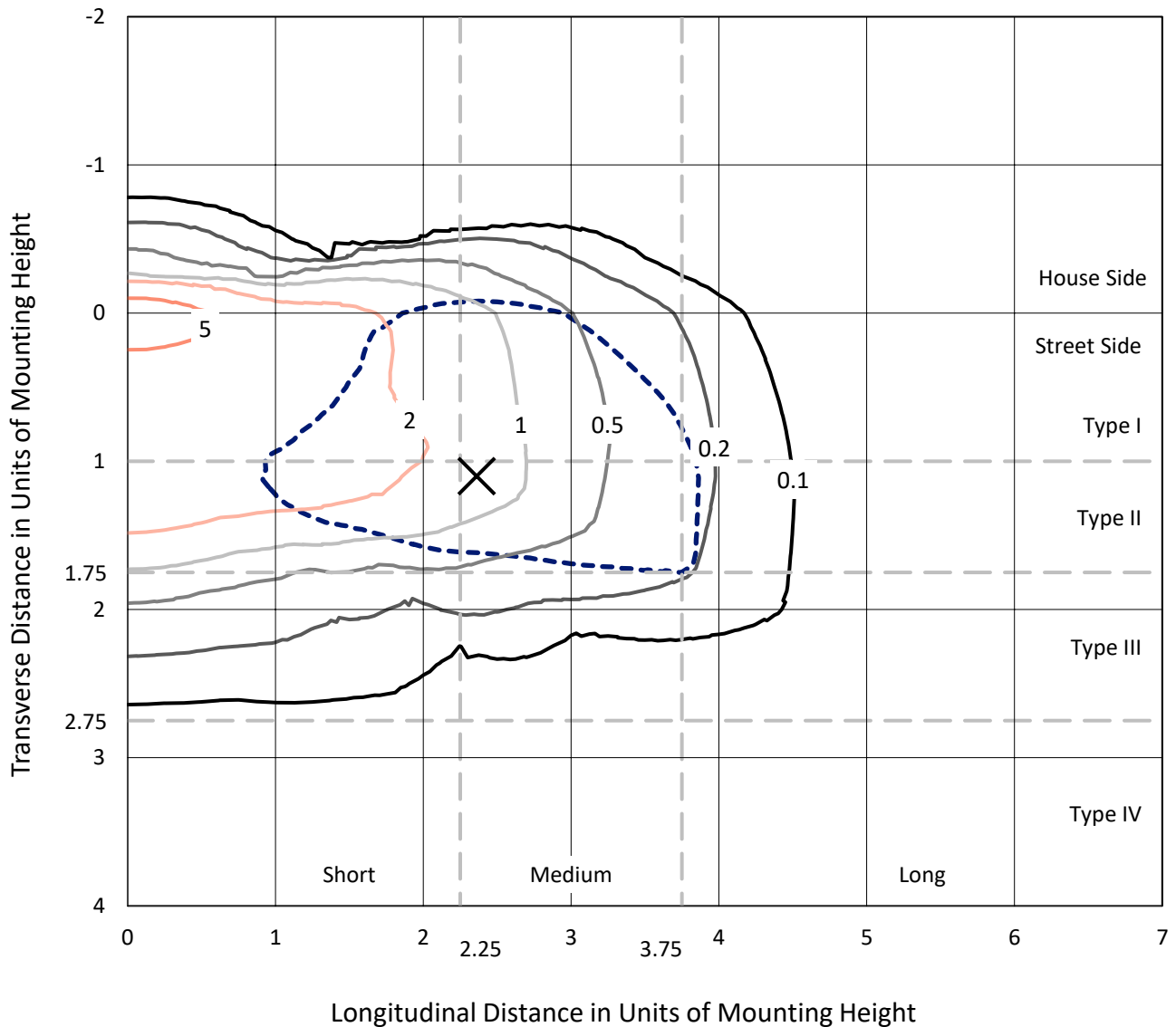
Lumens per Lamp: N/A  
Luminaire Lumens: 12077.6 lumens  
Efficiency: N/A  
Efficacy: 93.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G2

Input Watts (W): 128.6  
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

REPORT NUMBER: P484182  
 CATALOG NUMBER: IFLD-M-SA4A-830-U-SL2-HSS

### Iso-Footcandle Lines of Horizontal Illumination

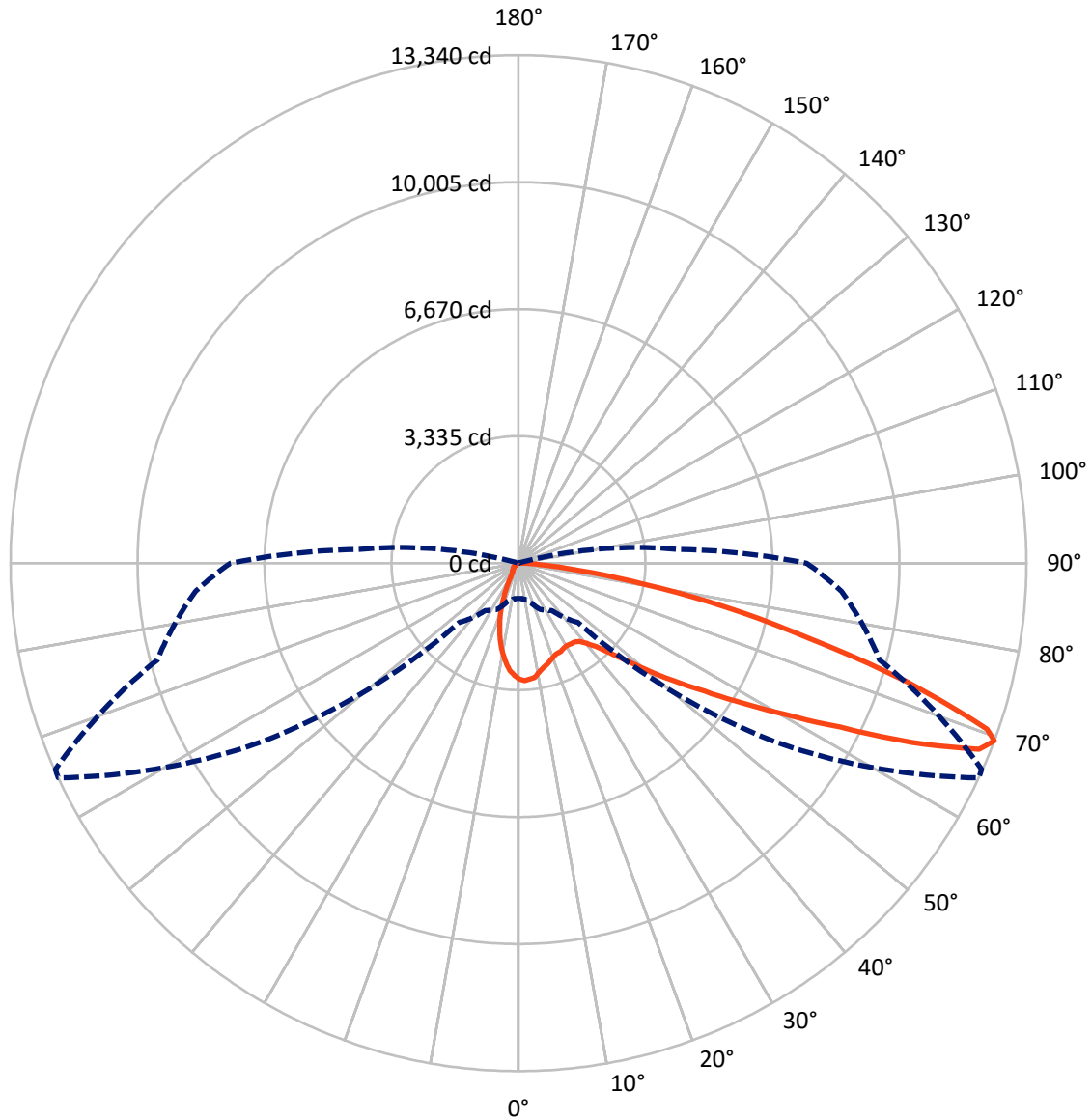
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 7.6 fc  
 Type II - Medium - N/A

REPORT NUMBER: P484182  
CATALOG NUMBER: IFLD-M-SA4A-830-U-SL2-HSS

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P484182  
 CATALOG NUMBER: IFLD-M-SA4A-830-U-SL2-HSS

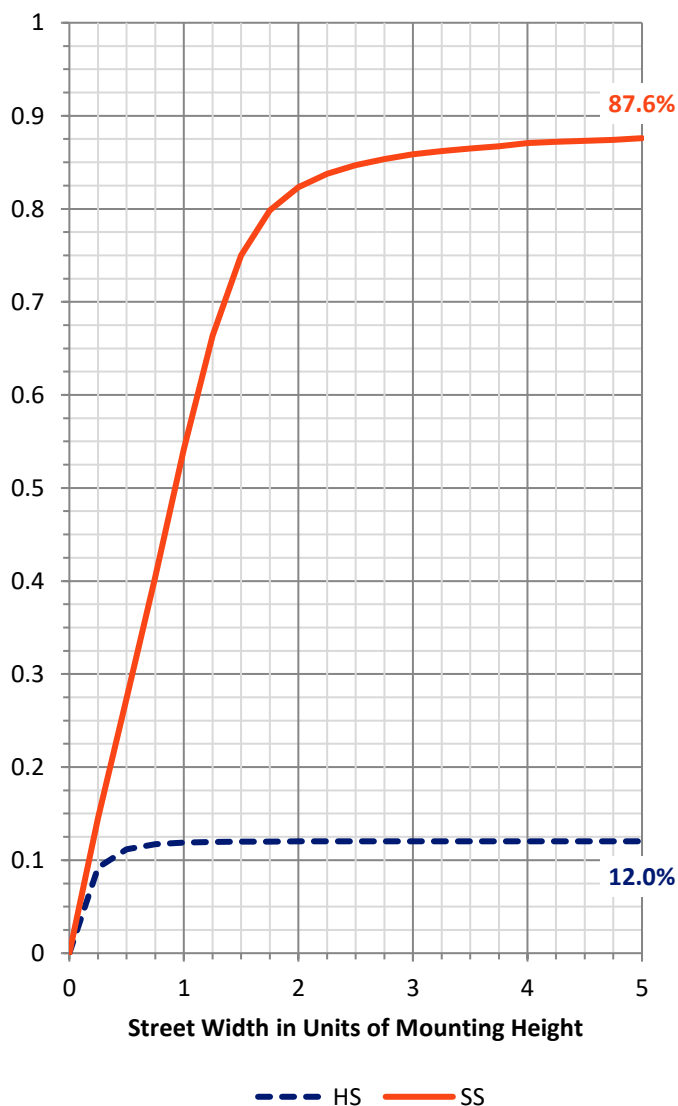
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1465.1	0.0	1465.1
	% Fixture	12.1	0.0	12.1
<b>Street Side</b>	Lumens	10612.5	0.0	10612.5
	% Fixture	87.9	0.0	87.9
<b>Total</b>	Lumens	12077.6	0.0	12077.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	249.2	2.1
10°-20°	545.2	4.5
20°-30°	759.1	6.3
30°-40°	1075.7	8.9
40°-50°	1695.2	14.0
50°-60°	2750.7	22.8
60°-70°	3072.0	25.4
70°-80°	1729.9	14.3
80°-90°	200.7	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°	12077.6	100.0
0°-180°	12077.6	100.0

**Coefficient of Utilization**

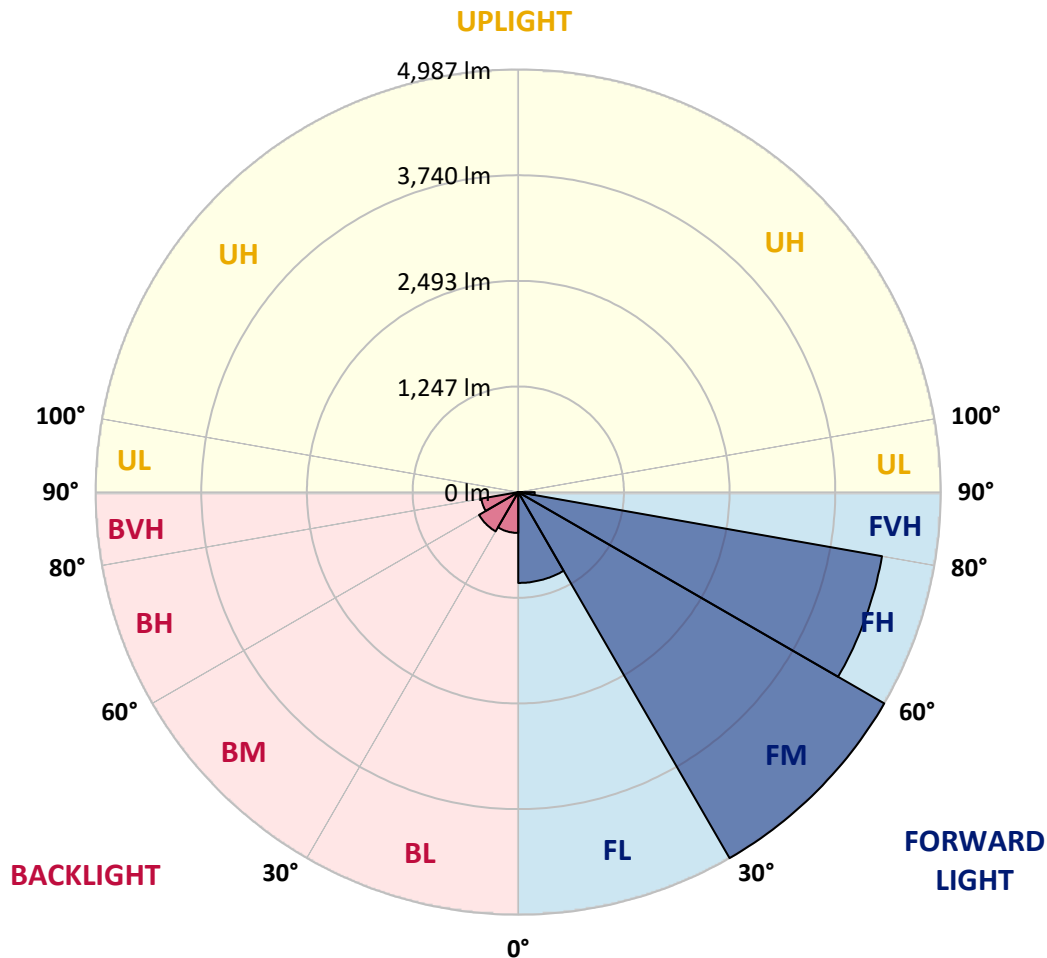


REPORT NUMBER: P484182  
 CATALOG NUMBER: IFLD-M-SA4A-830-U-SL2-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1071.8	8.9			
FM (30°-60°)	4987.0	41.3			
FH (60°-80°)	4358.6	36.1			G2/5000
FVH (80°-90°)	195.2	1.6			G2/225
BL (0°-30°)	481.7	4.0	B1/500		
BM (30°-60°)	534.6	4.4	B1/1000		
BH (60°-80°)	443.3	3.7	B1/500		G1/500
BVH (80°-90°)	5.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**  
 Type II Medium





REPORT NUMBER: P484182

CATALOG NUMBER: IFLD-M-SA4A-830-U-SL2-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	3045.0	3045.0	3045.0	3045.0	3045.0	3045.0	3045.0	3045.0	3045.0	3045.0	3045.0
2.5°	2932.6	2955.4	2962.0	2984.8	2996.2	3045.0	3072.7	3089.0	3080.9	3098.8	3100.4
5°	2724.1	2711.1	2745.3	2769.7	2821.8	2906.6	2992.9	3059.7	3090.7	3120.0	3115.1
7.5°	2500.9	2494.4	2528.6	2584.0	2631.2	2733.9	2872.3	3036.9	3030.4	3102.1	3123.2
10°	2347.7	2354.2	2365.7	2421.0	2491.1	2595.4	2768.1	2921.2	2955.4	3107.0	3149.3
12.5°	2207.6	2219.0	2240.2	2297.2	2378.7	2486.2	2654.0	2833.2	2885.4	3079.3	3164.0
15°	2162.0	2135.9	2178.3	2220.7	2305.4	2401.5	2543.2	2766.4	2789.3	3046.7	3188.4
17.5°	2124.5	2108.2	2127.8	2162.0	2251.6	2329.8	2463.4	2694.8	2737.1	3033.6	3185.2
20°	2135.9	2121.3	2129.4	2155.5	2196.2	2269.5	2393.4	2626.3	2672.0	2973.4	3180.3
22.5°	2168.5	2179.9	2165.3	2171.8	2184.8	2222.3	2355.9	2577.5	2616.6	2962.0	3208.0
25°	2315.1	2295.6	2276.0	2267.9	2191.3	2207.6	2344.5	2574.2	2601.9	2921.2	3185.2
27.5°	2468.3	2452.0	2443.9	2396.6	2292.3	2243.5	2346.1	2528.6	2566.1	2904.9	3157.5
30°	2654.0	2675.2	2642.6	2585.6	2440.6	2320.0	2364.0	2505.8	2557.9	2843.0	3139.5
32.5°	2849.5	2860.9	2877.2	2834.9	2647.5	2435.7	2417.8	2526.9	2530.2	2843.0	3098.8
35°	3071.1	3054.8	3097.2	3100.4	2935.9	2641.0	2520.4	2541.6	2575.8	2830.0	3084.1
37.5°	3261.7	3289.4	3338.3	3416.5	3247.1	2931.0	2680.1	2610.0	2624.7	2890.3	3095.6
40°	3470.3	3498.0	3608.8	3687.0	3590.8	3256.8	2922.9	2769.7	2781.1	2979.9	3154.2
42.5°	3700.0	3753.8	3885.7	4022.6	3996.5	3670.7	3235.7	3004.3	2999.4	3203.1	3274.8
45°	4011.2	4082.9	4226.2	4384.3	4407.1	4144.8	3652.8	3354.6	3370.9	3494.7	3524.0
47.5°	4444.6	4441.3	4581.4	4757.4	4889.3	4636.8	4151.3	3825.5	3823.8	3955.8	3893.9
50°	4863.3	4864.9	4902.4	5106.0	5448.2	5319.5	4768.8	4451.1	4433.2	4498.3	4398.9
52.5°	5057.2	5034.3	5006.6	5252.7	5878.3	6179.7	5550.8	5159.8	5145.1	5106.0	5080.0
55°	4853.5	4861.6	4860.0	5115.8	6104.8	7087.2	6554.4	5940.2	5915.8	5793.6	5829.4
57.5°	4200.2	4174.1	4231.1	4630.3	5845.7	7706.3	7989.8	6924.3	6860.7	6455.0	6373.6
60°	3126.5	3134.7	3181.9	3652.8	5202.2	7836.6	9363.2	8079.4	7805.7	6921.0	6808.6
62.5°	2183.2	2166.9	2184.8	2448.7	3719.6	7315.3	10291.9	9483.8	9219.9	7450.5	7385.3
65°	1562.4	1541.3	1612.9	1774.2	2233.7	5593.2	10423.9	11354.2	11117.9	8296.1	8139.7
67.5°	1124.2	1120.9	1204.0	1497.3	1586.9	3221.0	9446.3	13048.6	12905.2	9299.7	8599.1
69°	930.3	931.9	1011.8	1340.9	1515.2	2199.5	8128.3	13340.2	13314.1	9817.8	8512.8
70°	811.4	817.9	910.7	1248.0	1485.9	1808.5	7007.4	13053.5	13027.4	9918.8	8227.7
72.5°	500.2	505.1	627.3	1000.4	1412.5	1476.1	4190.4	10679.7	10769.3	9456.1	7088.8
75°	239.5	241.1	329.1	723.4	1362.0	1399.5	2245.1	7880.6	8069.6	7634.6	5539.4
77.5°	127.1	127.1	158.0	384.5	1103.0	1316.4	1332.7	5559.0	5715.4	4827.4	3149.3
80°	63.5	65.2	96.1	200.4	684.3	1290.4	1041.1	3315.5	3400.2	1969.7	980.8
82.5°	24.4	26.1	45.6	120.6	355.2	1090.0	914.0	1630.9	1609.7	461.1	239.5
85°	3.3	3.3	16.3	71.7	151.5	480.6	754.3	681.0	658.2	101.0	115.7
87.5°	0.0	0.0	3.3	21.2	45.6	140.1	291.6	187.4	208.5	27.7	57.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P484182

CATALOG NUMBER: IFLD-M-SA4A-830-U-SL2-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3045.0	3045.0	3045.0	3045.0	3045.0	3045.0	3045.0	3045.0	3045.0	3045.0	3045.0
2.5°	3092.3	3058.1	3005.9	2955.4	2901.7	2836.5	2764.8	2738.7	2693.1	2689.9	2715.9
5°	3089.0	3033.6	2942.4	2834.9	2681.7	2566.1	2440.6	2349.4	2279.3	2233.7	2245.1
7.5°	3105.3	3038.5	2880.5	2649.1	2452.0	2222.3	2028.4	1894.8	1772.6	1712.3	1705.8
10°	3079.3	2989.7	2758.3	2434.1	2144.1	1823.1	1539.6	1360.4	1177.9	1111.1	1114.4
12.5°	3093.9	2968.5	2626.3	2212.5	1813.3	1396.3	1057.4	813.0	641.9	586.5	580.0
15°	3103.7	2922.9	2499.3	1946.9	1446.8	951.5	612.6	461.1	407.3	397.5	395.9
17.5°	3066.2	2867.5	2320.0	1684.6	1072.0	578.4	407.3	376.4	366.6	360.1	356.8
20°	3064.6	2834.9	2165.3	1415.8	715.2	394.3	351.9	340.5	325.8	321.0	321.0
22.5°	3036.9	2766.4	1979.5	1120.9	456.2	338.9	316.1	298.2	281.9	275.3	273.7
25°	3028.8	2686.6	1805.2	842.3	347.0	303.0	280.2	254.2	234.6	224.8	219.9
27.5°	3005.9	2618.2	1629.2	593.0	303.0	270.5	241.1	213.4	190.6	176.0	174.3
30°	2924.5	2546.5	1433.7	410.6	275.3	239.5	206.9	174.3	151.5	141.7	138.5
32.5°	2890.3	2479.7	1220.3	316.1	250.9	211.8	174.3	145.0	127.1	117.3	115.7
35°	2849.5	2381.9	1013.4	275.3	228.1	184.1	146.6	122.2	107.5	99.4	99.4
37.5°	2854.4	2303.7	819.5	249.3	203.7	158.0	125.5	104.3	91.2	83.1	83.1
40°	2839.8	2241.8	637.0	226.5	180.8	135.2	105.9	88.0	76.6	68.4	66.8
42.5°	2906.6	2225.5	480.6	206.9	158.0	115.7	91.2	74.9	63.5	53.8	53.8
45°	3019.0	2251.6	374.7	189.0	135.2	99.4	78.2	61.9	50.5	44.0	42.4
47.5°	3318.8	2354.2	293.3	174.3	115.7	86.3	65.2	50.5	40.7	34.2	32.6
50°	3753.8	2584.0	249.3	153.1	97.8	73.3	53.8	39.1	32.6	26.1	24.4
52.5°	4372.9	2970.1	226.5	135.2	81.5	60.3	42.4	31.0	24.4	19.6	17.9
55°	5047.4	3452.4	205.3	114.0	68.4	48.9	34.2	24.4	17.9	13.0	11.4
57.5°	5573.6	3869.4	187.4	94.5	55.4	39.1	26.1	17.9	13.0	8.1	6.5
60°	6148.7	4162.7	164.6	74.9	45.6	29.3	19.6	13.0	9.8	4.9	4.9
62.5°	6741.8	4506.5	135.2	58.7	35.8	22.8	14.7	9.8	6.5	1.6	1.6
65°	7566.2	4775.3	104.3	45.6	27.7	16.3	11.4	8.1	3.3	0.0	0.0
67.5°	7799.2	4643.3	76.6	35.8	19.6	11.4	8.1	4.9	1.6	0.0	0.0
69°	7566.2	4182.3	66.8	31.0	16.3	9.8	6.5	3.3	1.6	0.0	0.0
70°	7141.0	3823.8	58.7	26.1	14.7	9.8	4.9	3.3	1.6	0.0	0.0
72.5°	5972.8	2932.6	45.6	19.6	11.4	8.1	4.9	3.3	0.0	0.0	0.0
75°	4381.0	1811.7	34.2	14.7	9.8	6.5	4.9	3.3	0.0	0.0	0.0
77.5°	2347.7	661.5	24.4	9.8	6.5	4.9	4.9	3.3	0.0	0.0	0.0
80°	643.5	195.5	17.9	6.5	4.9	3.3	3.3	1.6	0.0	0.0	0.0
82.5°	176.0	50.5	11.4	6.5	4.9	3.3	1.6	0.0	0.0	0.0	0.0
85°	94.5	19.6	6.5	4.9	3.3	1.6	0.0	0.0	0.0	0.0	0.0
87.5°	48.9	6.5	4.9	3.3	3.3	1.6	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)