

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: P484279

Luminaire Tested: **IFLD-S-SA3A-727-U-SL3-HSS**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P484279  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3A-727-U-SL3-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens with House Side Shield  
Light Source: (48) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

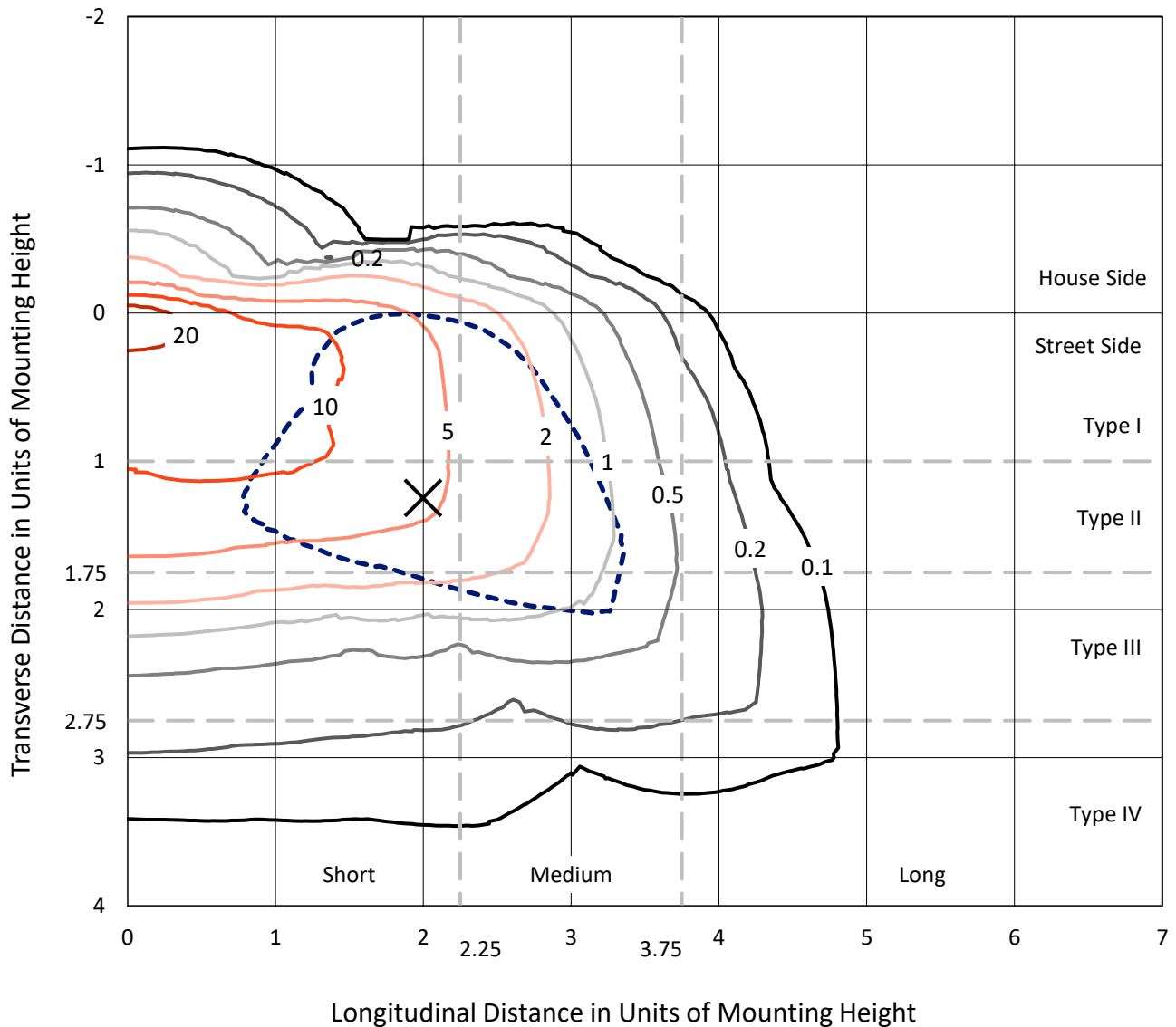
Lumens per Lamp: N/A  
Luminaire Lumens: 9622.6 lumens  
Efficiency: N/A  
Efficacy: 101.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2

Input Watts (W): 94.8  
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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 CATALOG NUMBER: IFLD-S-SA3A-727-U-SL3-HSS

### Iso-Footcandle Lines of Horizontal Illumination

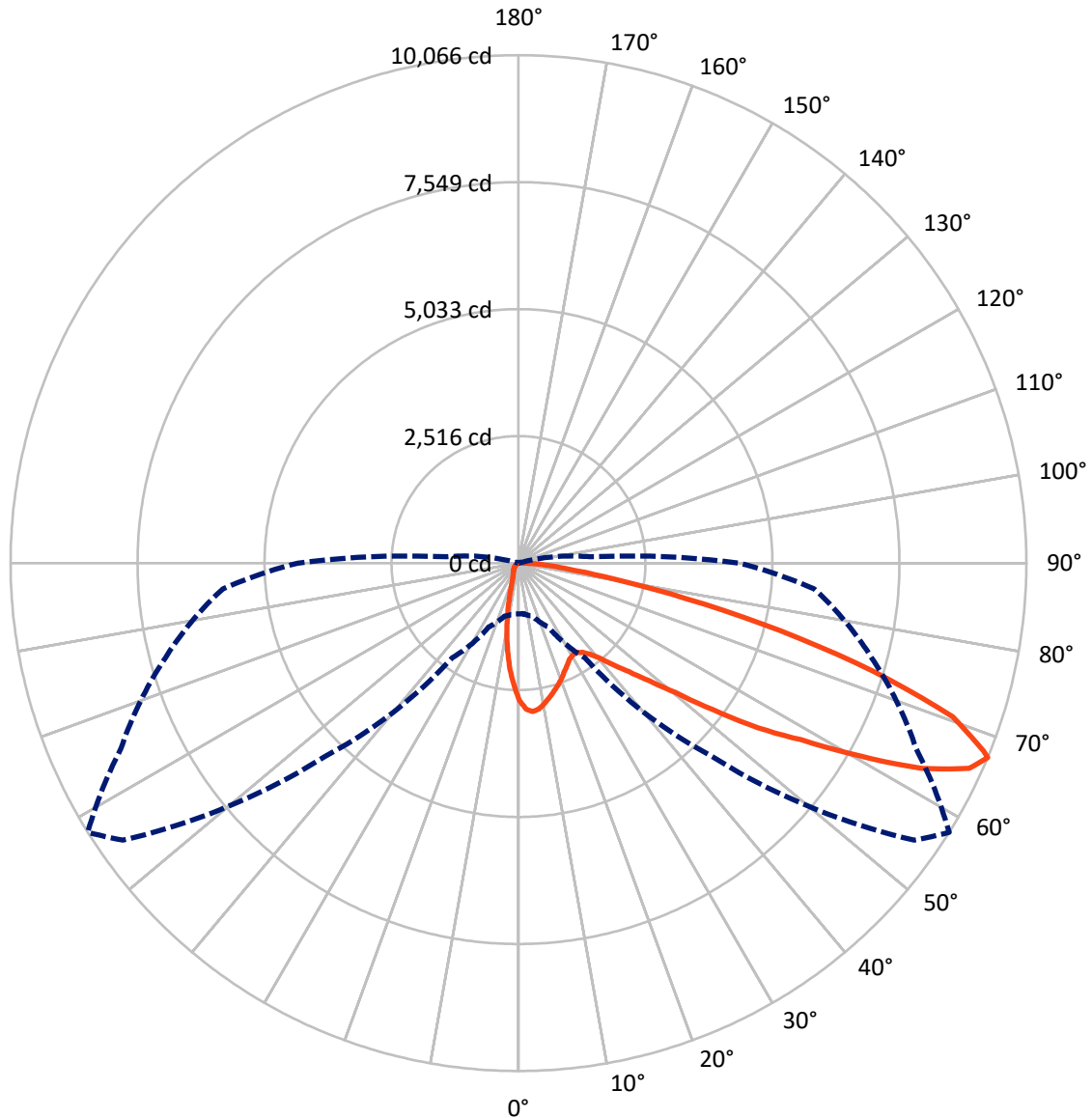
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 27.3 fc  
 Type III - Short - N/A

REPORT NUMBER: P484279  
CATALOG NUMBER: IFLD-S-SA3A-727-U-SL3-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral      - - - Horizontal Cone Through 67-Deg Vertical

REPORT NUMBER: P484279

CATALOG NUMBER: IFLD-S-SA3A-727-U-SL3-HSS

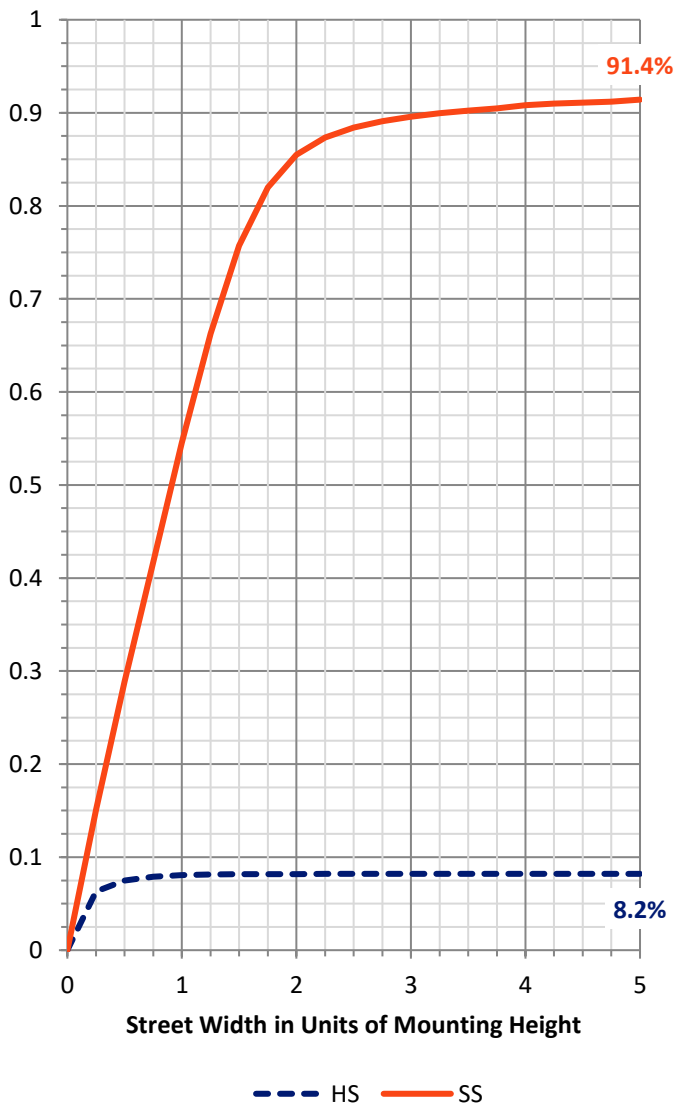
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	795.4	0.0	795.4
	% Fixture	8.3	0.0	8.3
<b>Street Side</b>	Lumens	8827.3	0.0	8827.3
	% Fixture	91.7	0.0	91.7
<b>Total</b>	Lumens	9622.6	0.0	9622.6
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	216.3	2.2
10°-20°	448.7	4.7
20°-30°	595.3	6.2
30°-40°	824.9	8.6
40°-50°	1346.0	14.0
50°-60°	2365.8	24.6
60°-70°	2620.3	27.2
70°-80°	1085.9	11.3
80°-90°	119.5	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°	9622.6	100.0
0°-180°	9622.6	100.0



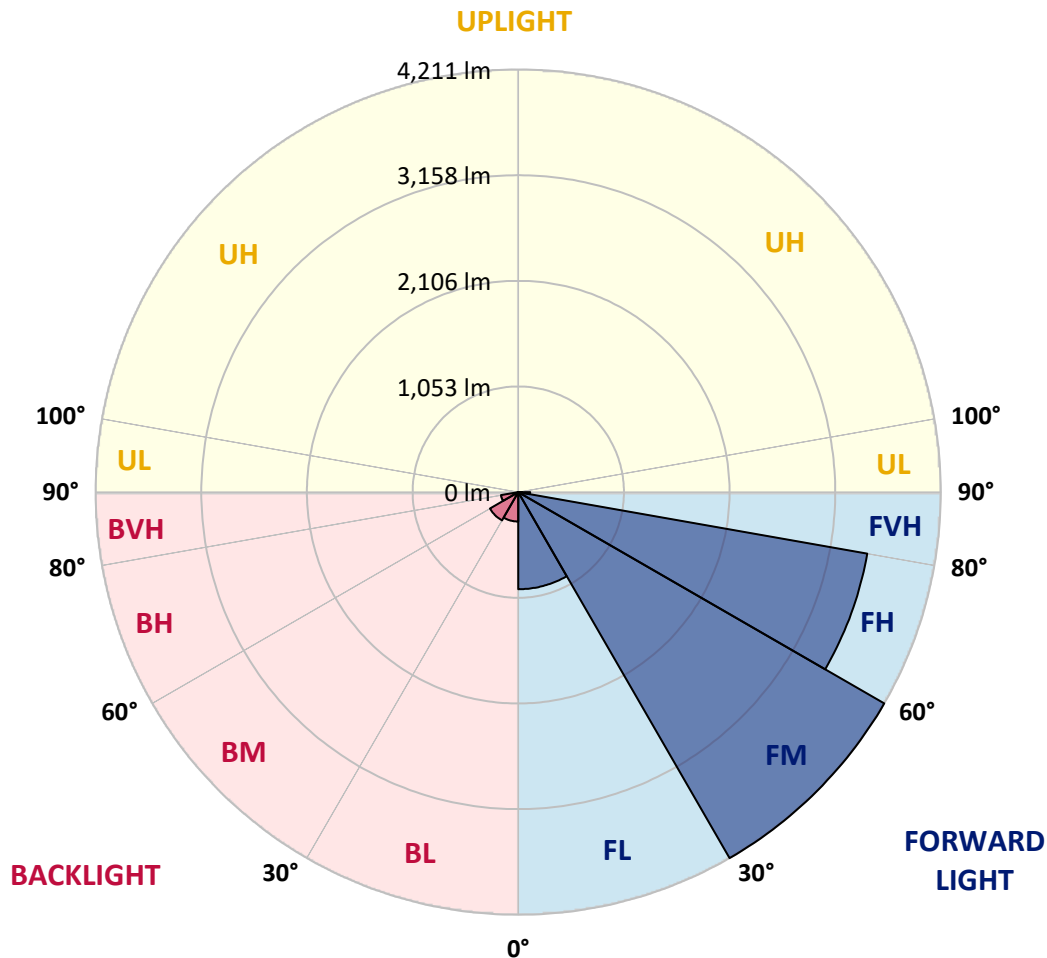
REPORT NUMBER: P484279  
 CATALOG NUMBER: IFLD-S-SA3A-727-U-SL3-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	967.3	10.1			
FM (30°-60°)	4211.1	43.8			
FH (60°-80°)	3531.3	36.7			G2/5000
FVH (80°-90°)	117.6	1.2			G2/225
BL (0°-30°)	292.9	3.0	B1/500		
BM (30°-60°)	325.6	3.4	B1/1000		
BH (60°-80°)	174.9	1.8	B1/500		G1/500
BVH (80°-90°)	2.0	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 III Short





REPORT NUMBER: P484279

CATALOG NUMBER: IFLD-S-SA3A-727-U-SL3-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	2726.2	2726.2	2726.2	2726.2	2726.2	2726.2	2726.2	2726.2	2726.2	2726.2	2726.2
2.5°	2966.4	2976.6	2985.6	2968.9	2983.0	2962.6	2910.2	2898.7	2889.7	2811.8	2767.1
5°	2965.1	2953.6	2962.6	2970.2	2951.1	2966.4	2953.6	2954.9	2920.4	2850.1	2724.9
7.5°	2767.1	2762.0	2767.1	2804.1	2846.3	2879.5	2898.7	2917.8	2894.9	2790.1	2668.7
10°	2500.1	2525.7	2539.7	2606.1	2671.3	2732.6	2792.7	2828.4	2822.0	2779.9	2607.4
12.5°	2313.6	2305.9	2357.0	2400.5	2465.6	2589.5	2694.3	2727.5	2765.8	2707.1	2526.9
15°	2141.1	2120.7	2151.3	2226.7	2337.9	2436.2	2583.1	2633.0	2681.5	2696.8	2483.5
17.5°	1976.3	1986.5	2018.5	2086.2	2190.9	2328.9	2466.9	2538.4	2654.7	2634.2	2418.3
20°	1897.1	1918.8	1930.3	1964.8	2037.6	2175.6	2381.3	2438.8	2562.7	2633.0	2354.5
22.5°	1900.9	1900.9	1874.1	1894.6	1961.0	2068.3	2265.0	2328.9	2525.7	2566.5	2297.0
25°	1941.8	1916.3	1917.6	1893.3	1921.4	1980.2	2160.3	2238.2	2450.3	2572.9	2266.3
27.5°	1972.5	1967.4	1959.7	1953.3	1917.6	1926.5	2091.3	2155.2	2420.9	2565.3	2219.0
30°	2083.6	2060.6	2053.0	2038.9	1991.6	1948.2	2036.4	2116.8	2397.9	2583.1	2192.2
32.5°	2176.9	2180.7	2187.1	2146.2	2105.3	1998.0	2051.7	2115.6	2381.3	2624.0	2219.0
35°	2294.4	2311.0	2313.6	2300.8	2257.4	2151.3	2115.6	2170.5	2409.4	2696.8	2221.6
37.5°	2473.3	2455.4	2503.9	2509.0	2478.4	2337.9	2263.8	2285.5	2492.4	2813.1	2318.7
40°	2589.5	2611.2	2701.9	2758.2	2705.8	2578.0	2478.4	2474.6	2612.5	2995.8	2438.8
42.5°	2718.6	2767.1	2866.7	2988.1	2981.7	2862.9	2762.0	2745.4	2825.9	3260.2	2629.1
45°	2894.9	2938.3	3077.5	3260.2	3359.9	3258.9	3106.9	3073.7	3085.2	3620.5	2953.6
47.5°	3187.4	3175.9	3376.5	3556.6	3720.1	3642.2	3577.0	3480.0	3471.0	4044.6	3402.0
50°	3518.3	3515.7	3694.6	3899.0	4088.1	4240.1	4131.5	4025.5	4028.0	4620.8	3929.6
52.5°	3832.6	3882.4	4075.3	4278.4	4602.9	4766.4	4871.2	4829.0	4625.9	5135.6	4494.3
55°	3998.6	4042.1	4233.7	4583.7	5096.0	5516.3	5799.9	5764.2	5372.0	5715.6	5051.3
57.5°	3841.5	3870.9	4130.2	4588.8	5440.9	6378.6	6650.8	6606.0	6143.6	6158.9	5724.6
60°	3183.6	3229.6	3615.4	4153.2	5306.8	7043.0	7822.2	7754.5	6846.2	6719.7	6157.6
62.5°	2205.0	2235.7	2552.5	3221.9	4670.6	7274.2	8928.6	8965.6	7587.2	7156.6	6286.7
65°	1428.3	1425.7	1607.1	2060.6	3310.0	6574.1	9582.7	9812.6	8302.6	7223.1	6247.1
67°	1009.2	1005.4	1091.0	1397.6	2291.9	5416.7	9571.2	10065.6	8690.9	7242.2	5880.4
67.5°	931.3	927.5	1009.2	1285.2	2068.3	5037.2	9428.1	9935.2	8827.6	7215.4	5719.4
70°	723.1	712.9	743.5	885.3	1204.7	3257.7	8068.8	9126.6	8544.0	6546.0	4567.1
72.5°	522.5	534.0	582.5	726.9	945.4	1752.8	6150.0	7380.2	7136.2	4933.8	2902.5
75°	364.1	374.3	452.2	592.8	867.4	1062.9	4158.3	5352.8	4970.8	2723.7	1236.6
77.5°	190.4	203.1	288.7	474.0	788.2	822.7	2484.8	3394.4	2634.2	969.6	341.1
80°	88.1	94.5	144.4	336.0	659.2	723.1	1448.7	1888.2	1054.0	217.2	117.5
82.5°	38.3	42.2	66.4	192.9	467.6	632.4	896.8	990.1	382.0	70.3	72.8
85°	7.7	8.9	25.6	102.2	226.1	383.3	629.8	587.7	191.6	34.5	57.5
87.5°	0.0	0.0	6.4	29.4	61.3	113.7	267.0	267.0	58.8	17.9	21.7
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: P484279

CATALOG NUMBER: IFLD-S-SA3A-727-U-SL3-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2726.2	2726.2	2726.2	2726.2	2726.2	2726.2	2726.2	2726.2	2726.2	2726.2	2726.2
2.5°	2727.5	2681.5	2580.6	2487.3	2420.9	2345.5	2245.9	2201.2	2184.6	2161.6	2127.1
5°	2656.0	2599.7	2427.3	2253.5	2063.2	1918.8	1765.5	1676.1	1608.4	1566.2	1552.2
7.5°	2555.0	2440.1	2207.5	1929.1	1682.5	1467.9	1235.4	1078.2	977.3	936.4	898.1
10°	2474.6	2325.1	1971.2	1625.0	1296.7	982.4	720.5	582.5	477.8	438.2	433.1
12.5°	2369.8	2190.9	1750.2	1314.6	901.9	585.1	398.6	346.2	316.8	311.7	307.9
15°	2282.9	2069.6	1540.7	1018.2	583.8	365.4	310.4	297.7	290.0	287.4	288.7
17.5°	2224.2	1939.3	1326.1	741.0	384.5	298.9	286.2	278.5	274.7	273.4	269.6
20°	2107.9	1829.4	1114.0	518.7	300.2	275.9	265.7	259.3	255.5	254.2	252.9
22.5°	2041.5	1690.2	901.9	361.5	267.0	250.4	242.7	237.6	231.2	227.4	226.1
25°	1975.0	1588.0	712.9	281.1	242.7	231.2	219.7	213.3	203.1	198.0	196.7
27.5°	1897.1	1487.0	549.3	244.0	218.5	207.0	195.5	185.2	172.5	167.4	164.8
30°	1852.4	1388.7	413.9	218.5	200.6	185.2	171.2	158.4	144.4	135.4	132.9
32.5°	1829.4	1299.2	310.4	199.3	181.4	164.8	146.9	131.6	118.8	111.1	109.9
35°	1801.3	1212.4	244.0	181.4	163.5	145.6	127.8	112.4	99.6	93.3	90.7
37.5°	1830.7	1161.3	203.1	167.4	149.5	129.0	109.9	94.5	84.3	77.9	76.7
40°	1911.2	1119.1	176.3	154.6	135.4	113.7	95.8	80.5	71.5	66.4	63.9
42.5°	2035.1	1119.1	159.7	141.8	122.6	99.6	81.8	70.3	61.3	56.2	54.9
45°	2259.9	1153.6	145.6	129.0	107.3	85.6	70.3	58.8	49.8	44.7	43.4
47.5°	2575.5	1232.8	134.1	117.5	95.8	75.4	61.3	49.8	40.9	35.8	34.5
50°	2999.6	1412.9	122.6	103.5	85.6	65.2	51.1	39.6	31.9	26.8	25.6
52.5°	3528.5	1668.4	111.1	95.8	72.8	54.9	40.9	31.9	24.3	20.4	19.2
55°	4088.1	1981.4	97.1	85.6	62.6	46.0	33.2	24.3	17.9	15.3	14.1
57.5°	4651.4	2222.9	85.6	74.1	51.1	37.0	26.8	19.2	12.8	10.2	8.9
60°	4950.4	2245.9	74.1	61.3	40.9	29.4	20.4	14.1	8.9	6.4	5.1
62.5°	4996.4	2041.5	63.9	49.8	33.2	23.0	14.1	10.2	5.1	2.6	2.6
65°	4760.0	1701.7	54.9	39.6	25.6	16.6	10.2	6.4	2.6	1.3	0.0
67°	4376.8	1425.7	47.3	33.2	20.4	12.8	7.7	3.8	1.3	0.0	0.0
67.5°	4228.6	1349.1	44.7	30.7	19.2	11.5	6.4	3.8	1.3	0.0	0.0
70°	3281.9	963.2	33.2	21.7	14.1	8.9	5.1	2.6	0.0	0.0	0.0
72.5°	2010.8	563.4	25.6	15.3	10.2	6.4	3.8	1.3	0.0	0.0	0.0
75°	843.2	194.2	21.7	11.5	7.7	3.8	2.6	1.3	0.0	0.0	0.0
77.5°	219.7	72.8	15.3	7.7	5.1	3.8	2.6	1.3	0.0	0.0	0.0
80°	89.4	33.2	10.2	5.1	5.1	3.8	2.6	1.3	0.0	0.0	0.0
82.5°	58.8	15.3	6.4	5.1	3.8	2.6	1.3	0.0	0.0	0.0	0.0
85°	44.7	8.9	3.8	3.8	2.6	1.3	0.0	0.0	0.0	0.0	0.0
87.5°	19.2	5.1	3.8	2.6	2.6	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)