

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: P478043

Luminaire Tested: **IFLD-S-SA3E-727-U-T4FT**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P478043  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3E-727-U-T4FT  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens  
Light Source: (48) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

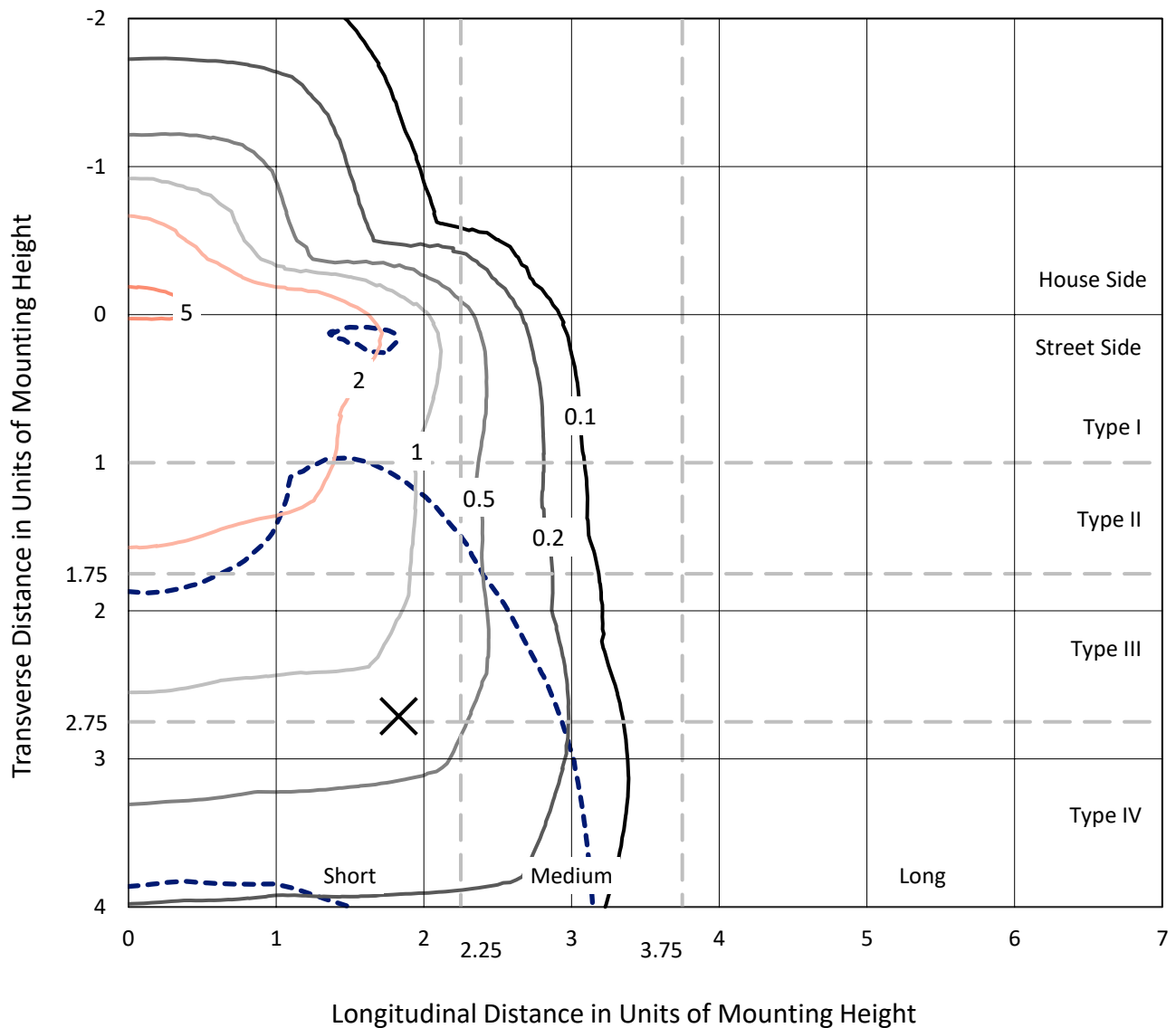
Lumens per Lamp: N/A  
Luminaire Lumens: 23110.3 lumens  
Efficiency: N/A  
Efficacy: 99.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G4

Input Watts (W): 232.1  
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

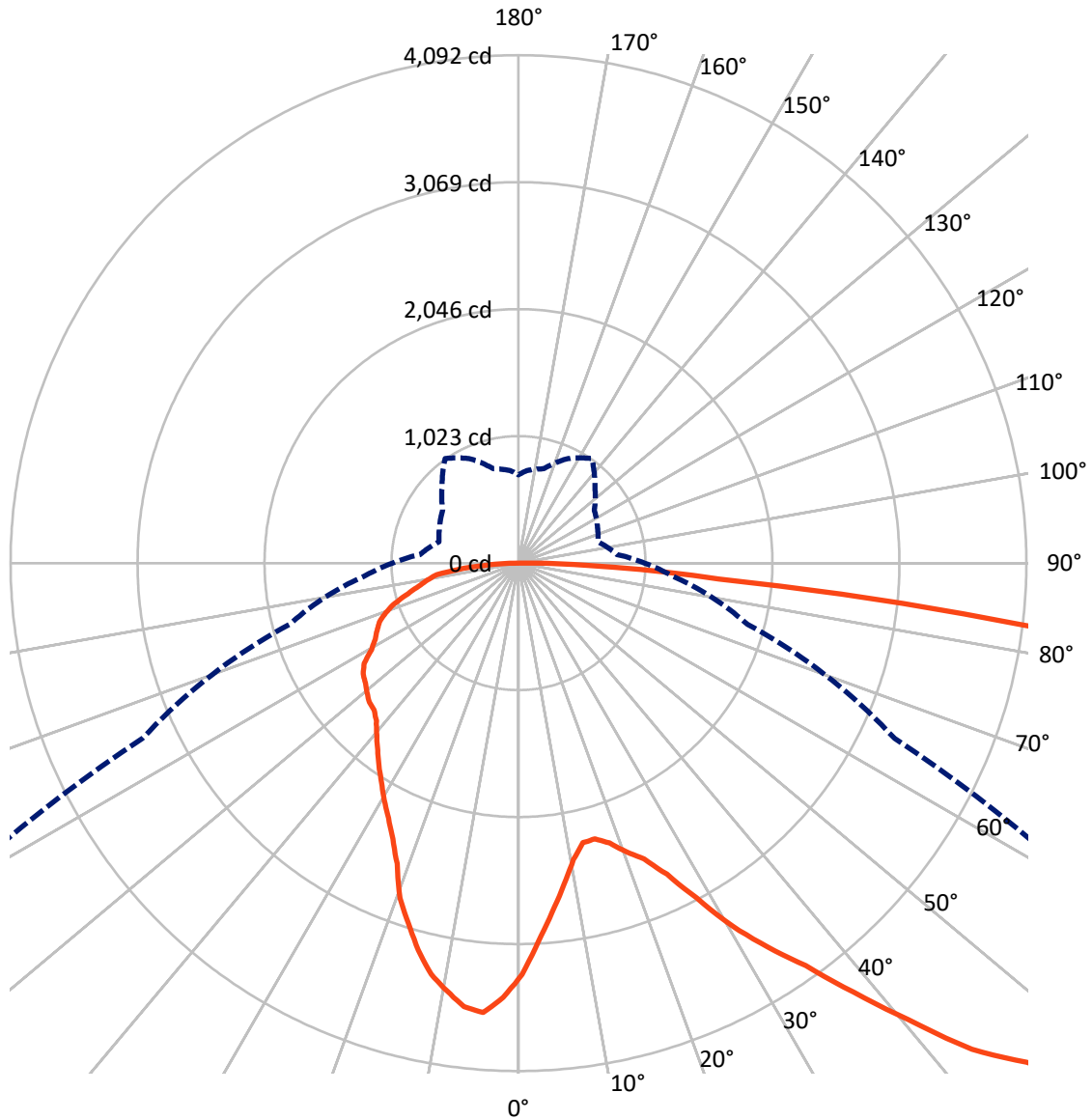
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral      - - - Horizontal Cone Through 73-Deg Vertical

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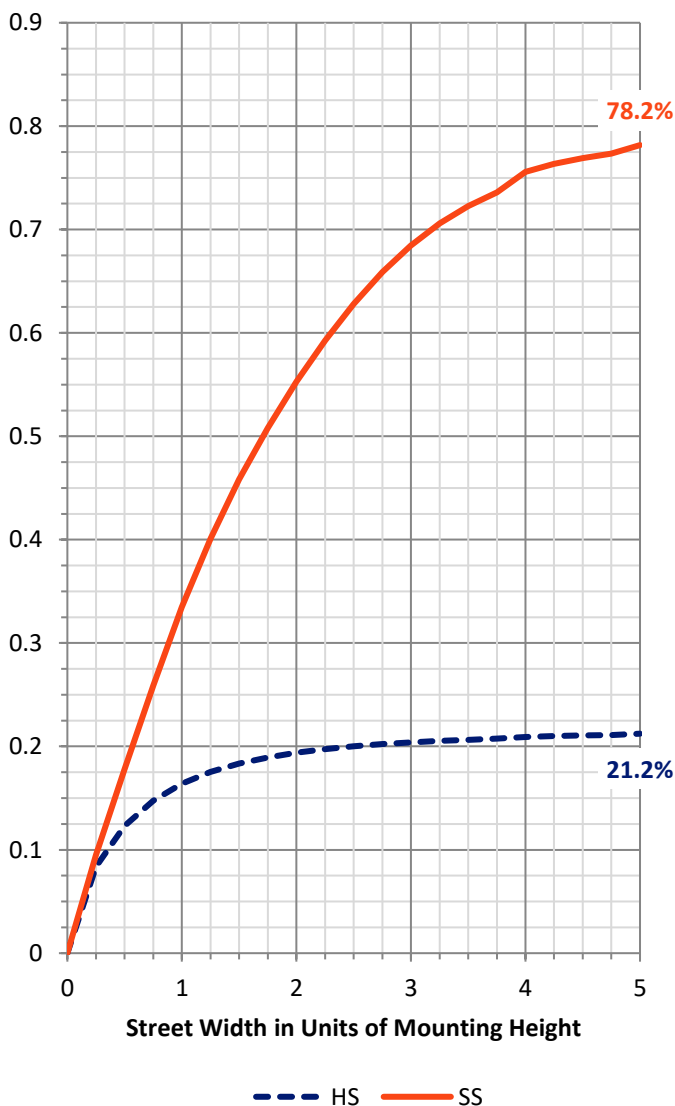
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4992.1	0.0	4992.1
	% Fixture	21.6	0.0	21.6
<b>Street Side</b>	Lumens	18118.2	0.0	18118.2
	% Fixture	78.4	0.0	78.4
<b>Total</b>	Lumens	23110.3	0.0	23110.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	305.8	1.3
10°-20°	855.8	3.7
20°-30°	1408.5	6.1
30°-40°	2106.4	9.1
40°-50°	3122.7	13.5
50°-60°	4500.1	19.5
60°-70°	5742.7	24.8
70°-80°	4468.8	19.3
80°-90°	599.5	2.6
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°	23110.3	100.0
0°-180°	23110.3	100.0

**Coefficient of Utilization**



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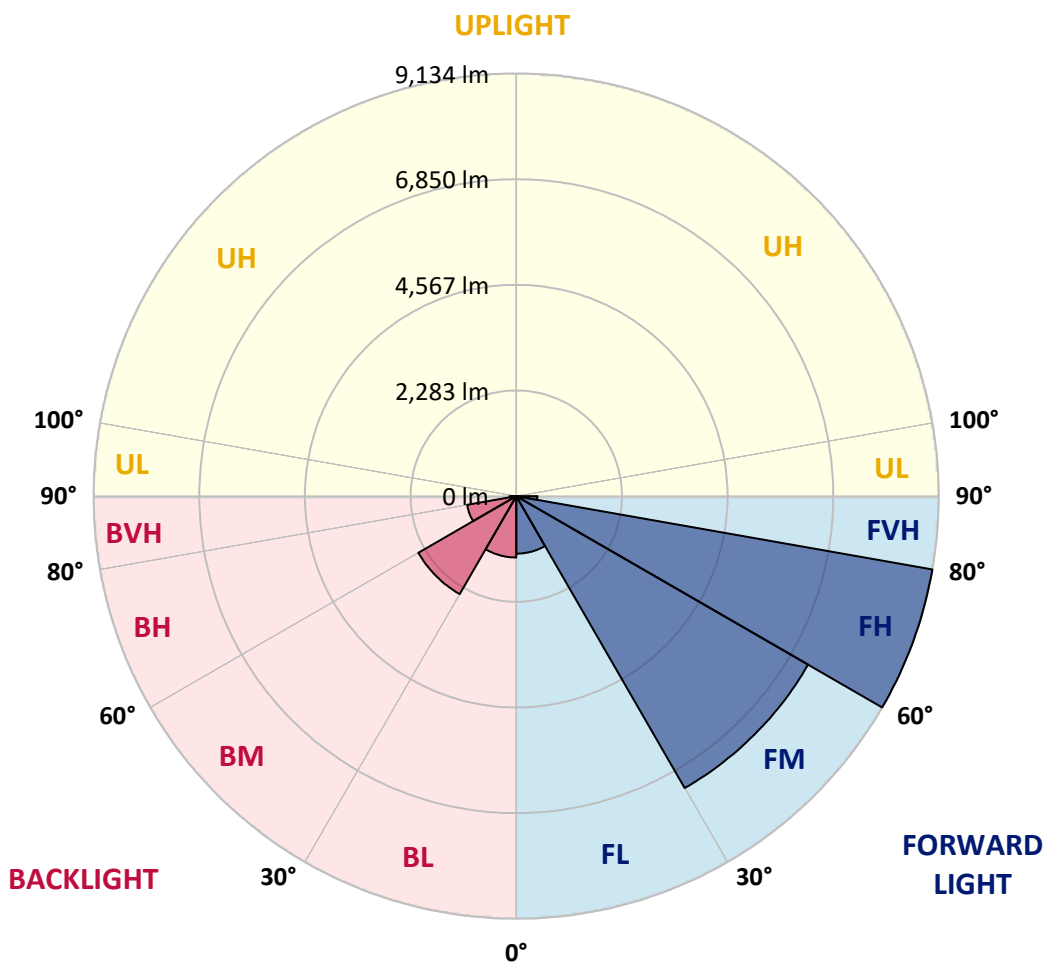
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1243.7	5.4			
FM	(30°-60°)	7284.5	31.5			
FH	(60°-80°)	9133.6	39.5			G4/12000
FVH	(80°-90°)	456.3	2.0			G3/500
BL	(0°-30°)	1326.4	5.7	B3/2500		
BM	(30°-60°)	2444.7	10.6	B2/2500		
BH	(60°-80°)	1077.9	4.7	B3/2500		G3/2500
BVH	(80°-90°)	143.2	0.6			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	3313.2	3313.2	3313.2	3313.2	3313.2	3313.2	3313.2	3313.2	3313.2	3313.2	3313.2
2.5°	2968.7	2978.5	3010.2	3017.6	3051.8	3032.2	3073.8	3147.1	3188.6	3249.7	3323.0
5°	2734.1	2692.6	2712.2	2787.9	2827.0	2836.8	2880.7	3005.4	3083.5	3173.9	3310.8
7.5°	2458.0	2450.7	2489.8	2538.7	2616.9	2624.2	2721.9	2831.9	2993.1	3193.5	3354.8
10°	2269.9	2301.7	2323.7	2375.0	2428.7	2428.7	2553.3	2743.9	2927.2	3120.2	3364.5
12.5°	2260.1	2240.6	2245.5	2272.3	2311.4	2360.3	2477.6	2648.6	2880.7	3105.5	3406.1
15°	2291.9	2299.2	2255.2	2289.4	2304.1	2321.2	2450.7	2643.7	2851.4	3156.8	3476.9
17.5°	2460.5	2418.9	2350.5	2318.8	2370.1	2370.1	2458.0	2609.5	2856.3	3183.7	3579.6
20°	2592.4	2592.4	2480.0	2445.8	2482.5	2475.1	2536.2	2648.6	2880.7	3237.5	3694.4
22.5°	2814.8	2846.5	2660.8	2590.0	2587.5	2607.1	2660.8	2756.1	2949.2	3313.2	3804.3
25°	3134.9	3142.2	2927.2	2853.9	2775.7	2807.4	2817.2	2912.5	3010.2	3401.2	3929.0
27.5°	3491.6	3486.7	3288.8	3105.5	3054.2	3061.6	3007.8	3071.3	3100.6	3428.1	4107.3
30°	3887.4	3843.4	3694.4	3435.4	3393.9	3347.4	3230.1	3227.7	3288.8	3579.6	4354.1
32.5°	4146.4	4090.2	3987.6	3801.9	3687.1	3691.9	3506.2	3503.8	3450.1	3745.7	4569.1
35°	4400.5	4315.0	4288.1	4097.5	3982.7	3994.9	3845.9	3826.3	3728.6	3997.4	4923.4
37.5°	4705.9	4630.2	4671.7	4527.6	4385.9	4327.2	4258.8	4234.4	4107.3	4351.7	5407.2
40°	5043.1	5018.7	4991.8	4921.0	4835.4	4840.3	4767.0	4742.6	4554.5	4779.2	5871.4
42.5°	5497.6	5404.8	5265.5	5311.9	5355.9	5402.3	5377.9	5314.3	5118.9	5214.2	6389.4
45°	5920.3	5798.1	5541.6	5556.2	5737.1	5773.7	6069.4	6062.0	5668.6	5766.4	6978.3
47.5°	6206.2	6150.0	5996.1	5978.9	6237.9	6235.5	6768.2	6768.2	6247.7	6316.1	7611.1
50°	6631.3	6484.7	6418.8	6504.3	6636.2	6726.6	7481.6	7528.1	6817.0	6890.3	8439.4
52.5°	7129.8	6946.5	6780.4	7000.3	7234.8	7293.5	8187.8	8168.2	7254.4	7557.4	9409.5
55°	7542.7	7449.9	7335.0	7462.1	7845.7	7919.0	8896.3	8715.5	7691.8	8109.6	9876.1
57.5°	8024.1	8080.3	8104.7	8072.9	8529.8	8644.7	9705.1	9187.1	8068.0	8481.0	10149.8
60°	8749.7	8783.9	8815.7	8891.5	9375.2	9536.5	10345.3	9778.4	8305.0	8696.0	10171.8
62.5°	9854.1	9722.2	9793.1	10054.5	10443.0	10626.3	11288.4	10193.8	8485.9	8825.5	9453.4
65°	11117.4	10939.0	10865.7	11202.9	12209.6	12063.0	12466.1	10504.1	8224.4	8341.7	8016.7
67.5°	12397.7	12417.3	12229.1	12905.9	14139.8	14139.8	13560.8	10653.1	7515.8	6760.8	5622.2
70°	13414.2	13475.2	13577.9	14890.0	16844.7	17140.3	14916.8	10042.3	6071.8	4500.7	3073.8
72.5°	13399.5	13216.2	13741.6	16158.1	19302.7	19055.9	15200.3	7941.0	3789.7	2203.9	1409.8
73°	13099.0	12945.0	13519.2	16145.8	19402.9	19170.8	14992.6	7320.4	3342.5	1910.7	1253.5
75°	10697.1	10418.6	11395.9	14623.6	17951.5	18129.9	12737.3	4774.4	1832.5	1177.7	882.1
77.5°	4877.0	4999.2	6272.2	9810.2	13834.4	14044.5	8373.5	2064.7	1004.2	825.9	649.9
80°	1566.2	1644.4	2440.9	4877.0	8671.6	9050.3	3870.3	938.3	715.9	632.8	486.2
82.5°	598.6	596.2	1023.8	2028.0	4109.8	4351.7	1414.7	571.8	532.7	466.7	344.5
85°	210.1	219.9	386.1	801.4	1617.5	1693.3	491.1	317.6	369.0	312.8	197.9
87.5°	73.3	75.7	136.8	290.8	557.1	588.9	136.8	127.1	183.3	180.8	100.2
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°	3313.2	3313.2	3313.2	3313.2	3313.2	3313.2	3313.2	3313.2	3313.2	3313.2	3313.2
2.5°	3347.4	3369.4	3376.7	3464.7	3464.7	3464.7	3498.9	3498.9	3489.1	3464.7	3523.4
5°	3362.1	3401.2	3476.9	3552.7	3572.2	3589.3	3635.7	3596.7	3611.3	3586.9	3608.9
7.5°	3403.6	3457.4	3599.1	3645.5	3613.8	3650.4	3601.5	3574.7	3547.8	3557.6	3523.4
10°	3474.5	3542.9	3608.9	3694.4	3633.3	3596.7	3496.5	3472.0	3386.5	3357.2	3384.1
12.5°	3562.4	3645.5	3757.9	3726.2	3608.9	3503.8	3396.3	3293.7	3242.4	3169.1	3188.6
15°	3650.4	3745.7	3762.8	3709.0	3562.4	3430.5	3235.0	3090.9	3039.6	2973.6	3007.8
17.5°	3745.7	3836.1	3806.8	3667.5	3469.6	3269.2	3046.9	2905.2	2797.7	2756.1	2756.1
20°	3887.4	3931.4	3885.0	3599.1	3357.2	3093.3	2878.3	2717.0	2609.5	2592.4	2565.5
22.5°	3997.4	4068.2	3860.5	3498.9	3193.5	2863.6	2616.9	2555.8	2524.0	2497.1	2462.9
25°	4139.1	4136.6	3816.6	3406.1	2912.5	2590.0	2440.9	2436.0	2421.4	2411.6	2458.0
27.5°	4273.5	4217.3	3765.2	3176.4	2621.7	2382.3	2301.7	2355.4	2377.4	2362.7	2382.3
30°	4486.0	4393.2	3691.9	2932.1	2365.2	2172.2	2186.8	2260.1	2296.8	2318.8	2289.4
32.5°	4710.8	4569.1	3540.5	2677.9	2138.0	2040.2	2074.4	2150.2	2194.2	2218.6	2245.5
35°	5035.8	4705.9	3386.5	2345.6	1974.3	1959.6	1979.1	2020.7	2084.2	2101.3	2108.6
37.5°	5436.5	4913.6	3178.8	2079.3	1847.2	1864.3	1883.8	1898.5	1900.9	1932.7	1920.5
40°	5837.2	5089.6	2875.9	1825.2	1715.3	1808.1	1798.3	1771.4	1749.5	1720.1	1712.8
42.5°	6189.1	5243.5	2538.7	1610.2	1598.0	1749.5	1717.7	1649.3	1598.0	1576.0	1539.3
45°	6584.9	5461.0	2199.0	1475.8	1507.6	1678.6	1668.8	1563.8	1497.8	1419.6	1409.8
47.5°	7098.0	5688.2	1874.1	1336.5	1422.0	1651.7	1656.6	1522.2	1426.9	1321.9	1307.2
50°	7755.3	6015.6	1627.3	1277.9	1370.7	1612.6	1620.0	1466.0	1341.4	1233.9	1224.1
52.5°	8385.7	6350.3	1422.0	1187.5	1336.5	1566.2	1583.3	1414.7	1270.6	1136.2	1143.5
55°	8703.3	6228.2	1246.1	1121.5	1258.3	1490.5	1554.0	1378.1	1163.0	1070.2	1067.8
57.5°	8774.2	5927.6	1106.9	1053.1	1192.4	1409.8	1505.1	1268.1	1114.2	1036.0	1026.2
60°	8542.1	5402.3	996.9	979.8	1109.3	1326.8	1392.7	1209.5	1065.3	1001.8	987.1
62.5°	7970.3	4857.4	921.2	945.6	1038.4	1236.3	1321.9	1167.9	1018.9	974.9	943.1
65°	6536.0	3994.9	860.1	879.6	965.1	1148.4	1277.9	1121.5	977.4	935.8	933.4
67.5°	4527.6	2753.7	811.2	847.9	906.5	1084.9	1233.9	1070.2	923.6	908.9	889.4
70°	2318.8	1468.5	747.7	777.0	843.0	1004.2	1155.7	1016.4	867.4	865.0	840.5
72.5°	1175.3	860.1	674.4	718.4	764.8	899.2	1058.0	945.6	796.5	769.7	730.6
73°	1016.4	796.5	662.2	701.2	745.2	869.8	1028.7	928.5	786.8	747.7	711.0
75°	740.3	627.9	593.7	632.8	667.0	784.3	930.9	850.3	723.2	681.7	647.5
77.5°	554.6	483.8	493.6	537.5	566.9	676.8	828.3	769.7	654.8	598.6	584.0
80°	408.0	369.0	408.0	449.6	471.6	596.2	755.0	667.0	552.2	488.7	476.5
82.5°	290.8	268.8	315.2	342.1	351.8	493.6	679.3	532.7	417.8	334.7	307.9
85°	166.1	163.7	212.6	210.1	217.5	288.3	447.1	354.3	268.8	205.2	200.4
87.5°	73.3	80.6	107.5	85.5	90.4	136.8	190.6	131.9	110.0	61.1	46.4
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)