

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: P481661

Luminaire Tested: **IFLD-S-SA2A-740-U-T2-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P481661
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2A-740-U-T2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens with House Side Shield
Light Source: (32) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

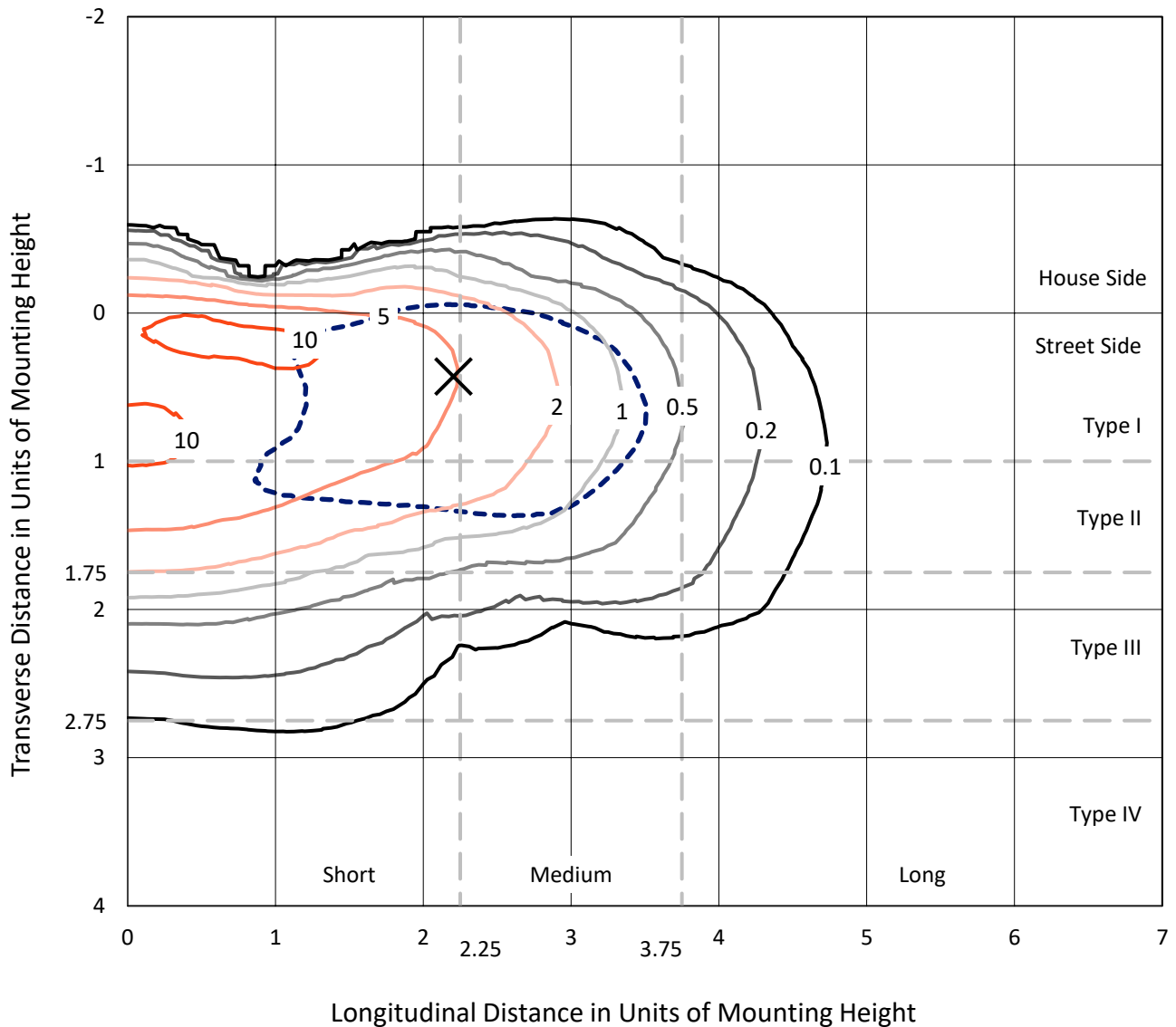
Lumens per Lamp: N/A
Luminaire Lumens: 6648.4 lumens
Efficiency: N/A
Efficacy: 104.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 63.8
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

REPORT NUMBER: P481661
 CATALOG NUMBER: IFLD-S-SA2A-740-U-T2-HSS

Iso-Footcandle Lines of Horizontal Illumination

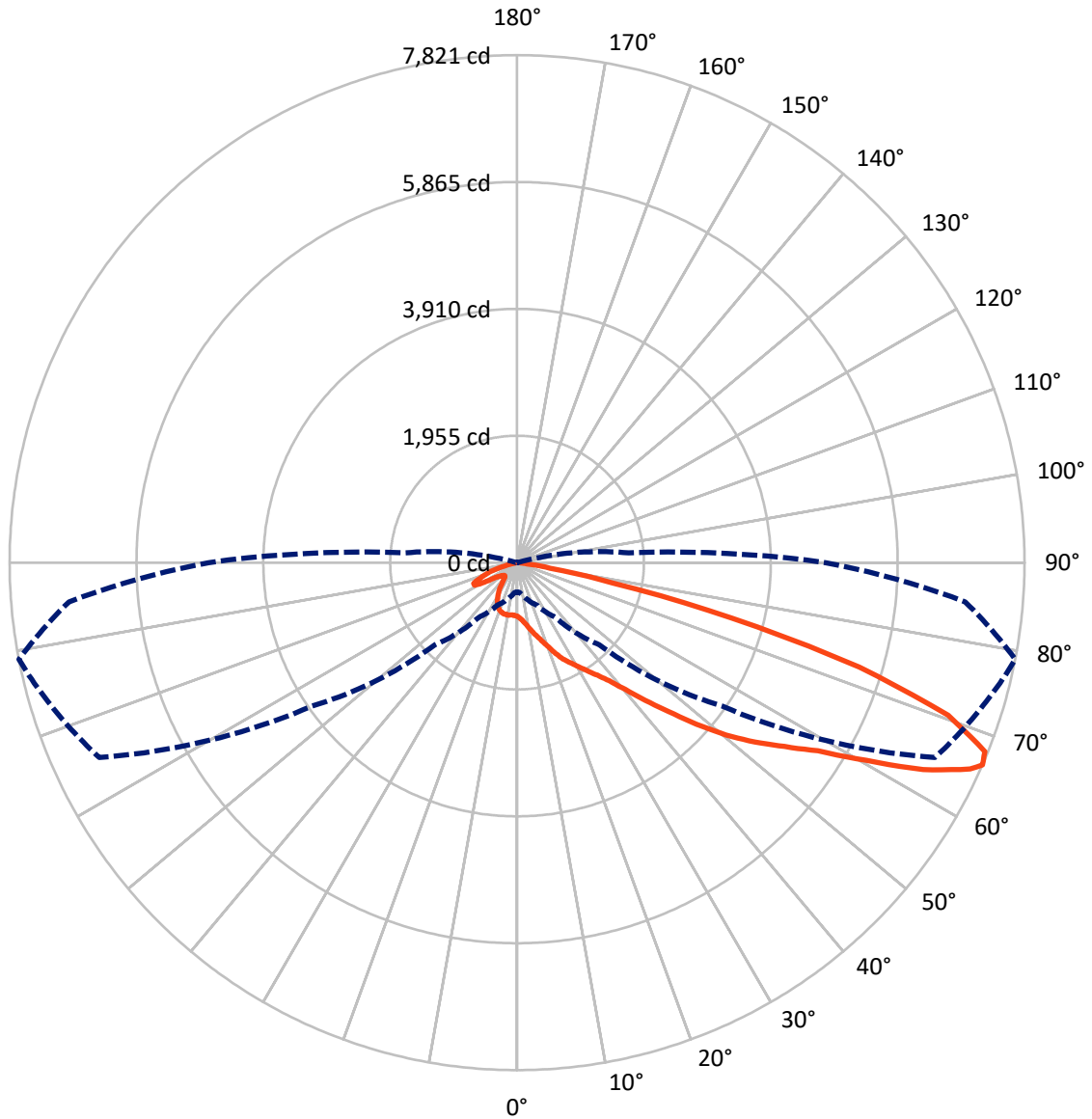
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 12.4 fc
 Type II - Short - N/A

REPORT NUMBER: P481661
CATALOG NUMBER: IFLD-S-SA2A-740-U-T2-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

REPORT NUMBER: P481661
 CATALOG NUMBER: IFLD-S-SA2A-740-U-T2-HSS

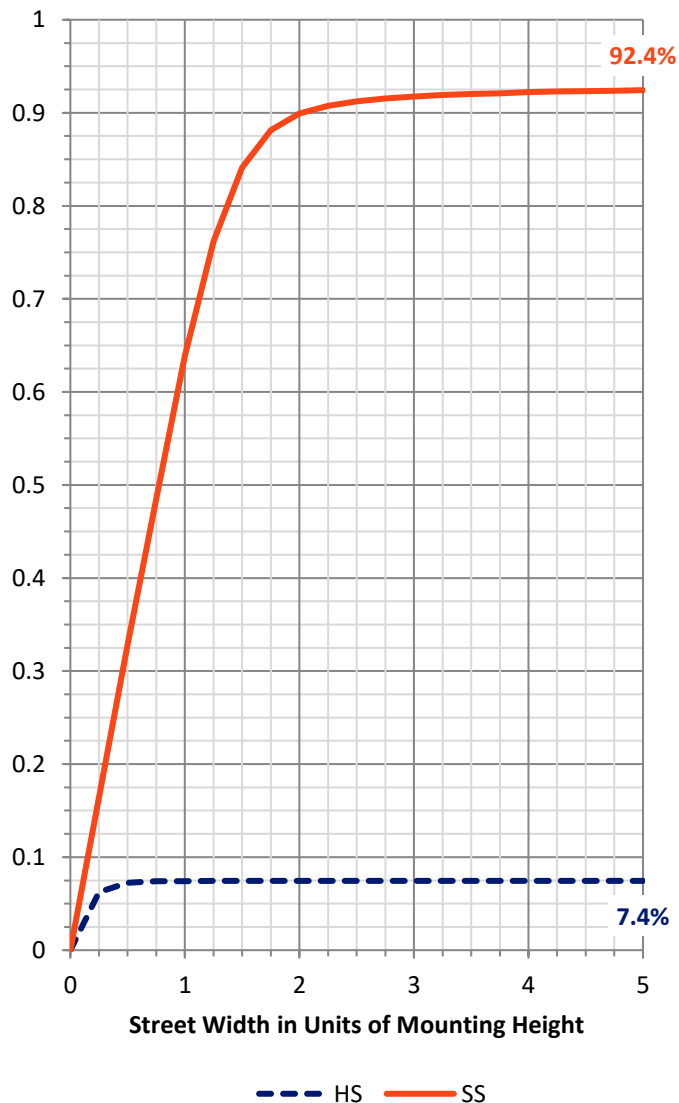
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	499.2	0.0	499.2
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	6149.3	0.0	6149.3
	% Fixture	92.5	0.0	92.5
Total	Lumens	6648.4	0.0	6648.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.2	1.2
10°-20°	215.3	3.2
20°-30°	357.6	5.4
30°-40°	614.3	9.2
40°-50°	1112.9	16.7
50°-60°	1759.2	26.5
60°-70°	1790.1	26.9
70°-80°	682.6	10.3
80°-90°	38.3	0.6
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°	6648.4	100.0
0°-180°	6648.4	100.0

Coefficient of Utilization

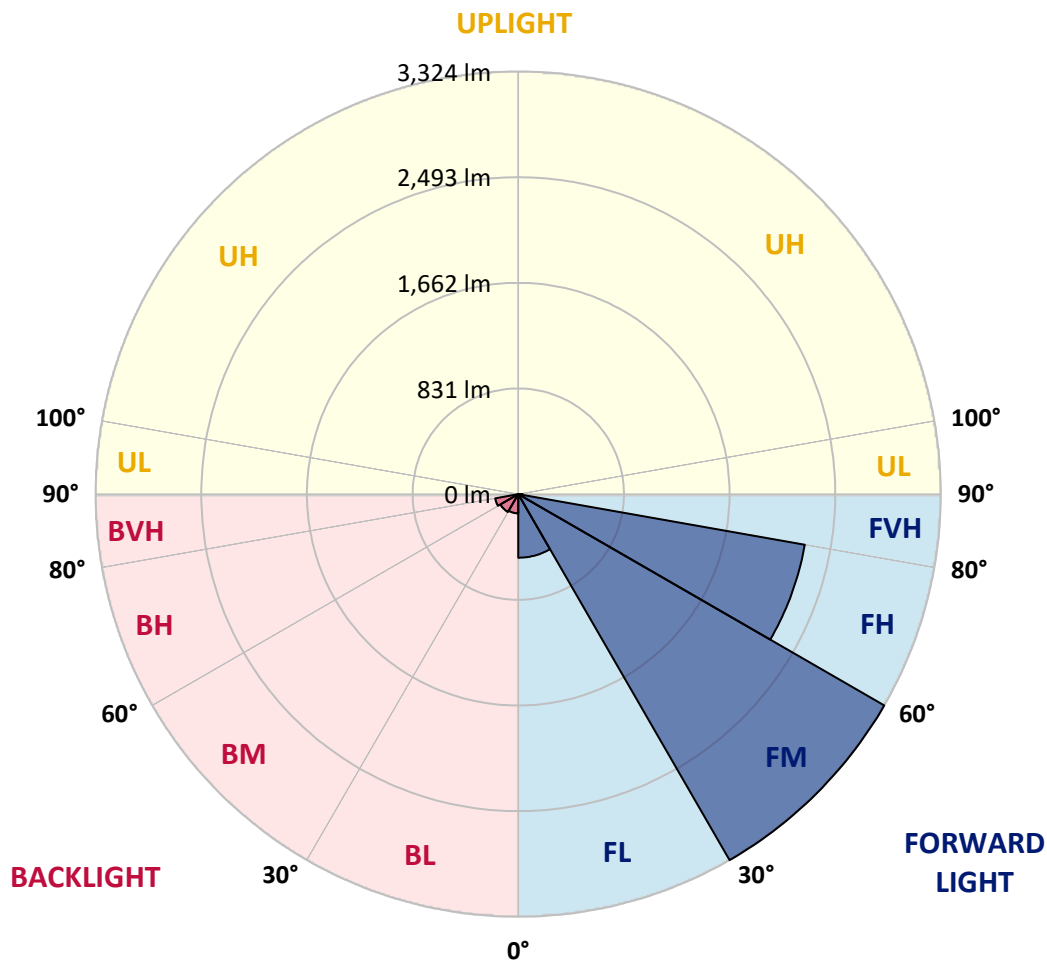


REPORT NUMBER: P481661
 CATALOG NUMBER: IFLD-S-SA2A-740-U-T2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	500.2	7.5			
FM (30°-60°)	3324.1	50.0			
FH (60°-80°)	2288.7	34.4			G2/5000
FVH (80°-90°)	36.3	0.5			G1/100
BL (0°-30°)	151.0	2.3	B1/500		
BM (30°-60°)	162.2	2.4	B0/220		
BH (60°-80°)	184.0	2.8	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 II Short





REPORT NUMBER: P481661

CATALOG NUMBER: IFLD-S-SA2A-740-U-T2-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	827.1	827.1	827.1	827.1	827.1	827.1	827.1	827.1	827.1	827.1	827.1
2.5°	936.8	935.8	931.7	924.5	915.3	912.2	898.9	880.4	870.2	858.9	853.8
5°	1001.4	996.3	1008.6	1003.4	1005.5	980.9	964.5	951.2	912.2	896.8	872.2
7.5°	1015.7	1020.9	1019.8	1028.0	1036.2	1045.5	1034.2	1014.7	975.8	953.2	926.6
10°	1015.7	1013.7	1021.9	1033.2	1056.7	1077.2	1108.0	1082.4	1052.6	1026.0	977.8
12.5°	997.3	994.2	1002.4	1026.0	1068.0	1110.0	1143.9	1168.5	1126.4	1104.9	1042.4
15°	940.9	937.8	971.7	1013.7	1069.0	1137.7	1208.4	1248.4	1219.7	1185.9	1116.2
17.5°	871.2	875.3	911.2	980.9	1069.0	1151.0	1241.2	1328.4	1324.3	1281.2	1208.4
20°	847.6	850.7	886.6	936.8	1037.3	1160.3	1292.5	1415.5	1440.1	1388.8	1293.5
22.5°	892.7	889.7	892.7	923.5	1015.7	1152.1	1326.3	1514.9	1559.0	1519.0	1405.2
25°	1046.5	1044.4	1018.8	971.7	1003.4	1133.6	1343.7	1580.5	1682.0	1645.1	1495.4
27.5°	1272.0	1263.8	1223.8	1125.4	1060.8	1144.9	1372.4	1644.1	1789.6	1747.6	1576.4
30°	1513.9	1494.4	1442.1	1319.1	1209.5	1186.9	1388.8	1691.2	1909.5	1856.2	1647.1
32.5°	1680.9	1706.6	1690.2	1565.1	1397.0	1284.3	1415.5	1750.6	2020.2	1985.4	1768.1
35°	1939.2	1969.0	1900.3	1789.6	1620.5	1439.1	1471.9	1798.8	2190.4	2131.9	1880.8
37.5°	2265.2	2287.7	2238.5	2028.4	1850.1	1629.7	1587.7	1899.3	2336.9	2309.3	2025.3
40°	2429.2	2537.8	2468.1	2278.5	2086.8	1896.2	1779.3	2017.1	2592.1	2569.6	2225.2
42.5°	2655.7	2710.0	2674.1	2533.7	2333.9	2181.1	2016.1	2246.7	2901.7	2901.7	2495.8
45°	2895.5	2897.6	2895.5	2780.7	2603.4	2524.5	2335.9	2534.7	3234.8	3271.7	2819.7
47.5°	3092.3	3153.8	3148.7	3080.0	2942.7	2913.0	2655.7	2862.7	3653.0	3717.6	3135.4
50°	3193.8	3262.5	3283.0	3318.8	3312.7	3375.2	3005.2	3243.0	4013.8	4172.6	3541.3
52.5°	3166.1	3171.3	3297.3	3438.8	3664.3	3839.5	3426.5	3674.5	4436.1	4592.9	3854.9
55°	2939.6	2920.1	3179.5	3341.4	3807.8	4123.5	4009.7	4212.6	4765.1	5003.9	4178.8
57.5°	2442.5	2447.6	2687.5	3016.5	3701.2	4236.2	4632.9	4915.8	5226.3	5467.2	4633.9
60°	1686.1	1679.9	1948.5	2328.7	3074.9	4026.1	4991.6	5826.9	5843.3	6184.7	5450.8
62.5°	948.1	950.1	1154.1	1479.0	2151.4	3290.2	4974.2	6794.5	6724.8	7024.1	6379.4
65°	537.1	550.4	690.8	876.3	1288.4	2208.8	4278.2	7179.9	7404.4	7670.9	6943.1
66°	454.1	463.3	583.2	723.6	1028.0	1791.6	3850.8	7105.1	7617.6	7820.5	6931.9
67.5°	351.6	363.9	464.3	574.0	754.4	1240.2	3099.5	6733.0	7656.5	7775.4	6736.1
70°	240.9	249.1	325.9	435.6	515.6	634.5	1853.1	5566.6	6947.2	7047.7	5854.6
72.5°	169.1	173.2	228.6	330.0	396.7	362.8	919.4	3960.5	5316.5	5512.3	4553.9
75°	122.0	126.1	156.8	236.8	309.5	237.8	421.3	2529.6	3260.4	3414.2	2742.8
77.5°	88.1	93.3	106.6	152.7	224.5	167.1	207.0	1321.2	1537.5	1510.8	1179.7
80°	53.3	58.4	78.9	98.4	164.0	117.9	113.8	551.4	545.3	517.6	371.0
82.5°	24.6	28.7	42.0	66.6	114.8	82.0	54.3	196.8	172.2	157.8	104.5
85°	7.2	9.2	24.6	50.2	58.4	40.0	32.8	67.6	70.7	60.5	34.8
87.5°	0.0	1.0	11.3	12.3	17.4	13.3	12.3	17.4	32.8	26.6	11.3
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: P481661
 CATALOG NUMBER: IFLD-S-SA2A-740-U-T2-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	827.1	827.1	827.1	827.1	827.1	827.1	827.1	827.1	827.1	827.1	827.1
2.5°	835.3	828.2	810.8	784.1	760.5	748.2	730.8	715.4	707.2	706.2	705.2
5°	855.8	836.4	794.4	746.2	710.3	671.4	644.7	625.2	606.8	589.4	599.6
7.5°	883.5	852.8	784.1	721.6	643.7	593.5	546.3	518.6	502.2	486.9	484.8
10°	926.6	887.6	776.9	664.2	575.0	501.2	453.0	413.1	390.5	363.9	374.1
12.5°	985.0	915.3	750.3	611.9	497.1	419.2	350.5	286.0	250.1	222.4	223.4
15°	1043.4	952.2	725.7	548.4	426.4	323.9	223.4	179.4	169.1	163.0	165.0
17.5°	1100.8	981.9	687.8	483.8	345.4	206.0	163.0	153.7	148.6	142.5	142.5
20°	1170.5	1001.4	640.6	424.3	237.8	152.7	139.4	133.2	125.0	116.8	117.9
22.5°	1238.2	1017.8	586.3	348.5	159.9	132.2	116.8	108.6	101.5	93.3	93.3
25°	1305.8	1022.9	515.6	250.1	129.1	105.6	91.2	79.9	72.8	65.6	66.6
27.5°	1351.9	991.1	448.9	159.9	103.5	79.9	63.5	54.3	48.2	41.0	41.0
30°	1378.6	932.7	377.2	112.7	77.9	54.3	37.9	28.7	22.5	17.4	16.4
32.5°	1405.2	885.6	296.2	86.1	51.2	28.7	14.3	5.1	0.0	0.0	0.0
35°	1458.5	832.3	198.8	48.2	17.4	1.0	0.0	0.0	0.0	0.0	0.0
37.5°	1492.4	758.5	91.2	7.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	1577.4	721.6	22.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	1715.8	696.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	1867.5	685.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	2069.4	713.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	2282.6	788.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	2516.3	858.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	2720.3	944.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	3095.4	1144.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	3768.8	1539.5	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	4527.3	1832.6	11.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	4805.1	1825.5	19.5	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	4755.9	1725.0	19.5	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	4500.6	1532.3	17.4	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	3865.2	1265.8	17.4	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	2946.8	986.0	16.4	4.1	1.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	1778.3	524.8	13.3	5.1	2.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	708.3	184.5	10.2	4.1	2.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	191.7	55.3	6.1	4.1	3.1	1.0	0.0	0.0	0.0	0.0	0.0
82.5°	50.2	20.5	5.1	4.1	2.0	1.0	0.0	0.0	0.0	0.0	0.0
85°	19.5	8.2	4.1	3.1	3.1	2.0	1.0	0.0	0.0	0.0	0.0
87.5°	6.1	3.1	3.1	2.0	2.0	1.0	1.0	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)