

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: P481586

Luminaire Tested: **IFLD-S-SA2D-730-U-T2-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P481586  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2D-730-U-T2-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens with House Side Shield  
Light Source: (32) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

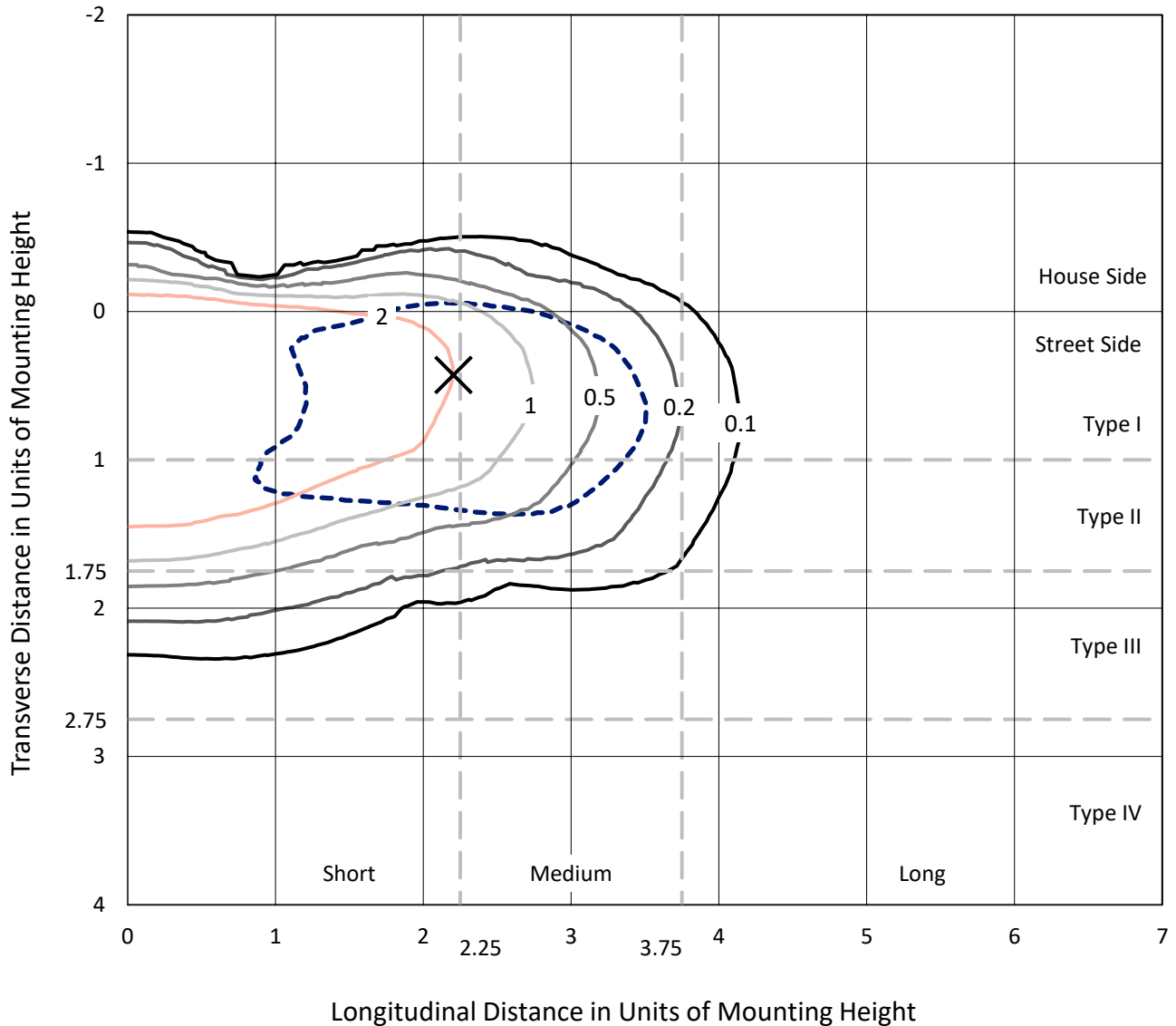
Lumens per Lamp: N/A  
Luminaire Lumens: 10255.7 lumens  
Efficiency: N/A  
Efficacy: 82.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2

Input Watts (W): 123.9  
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

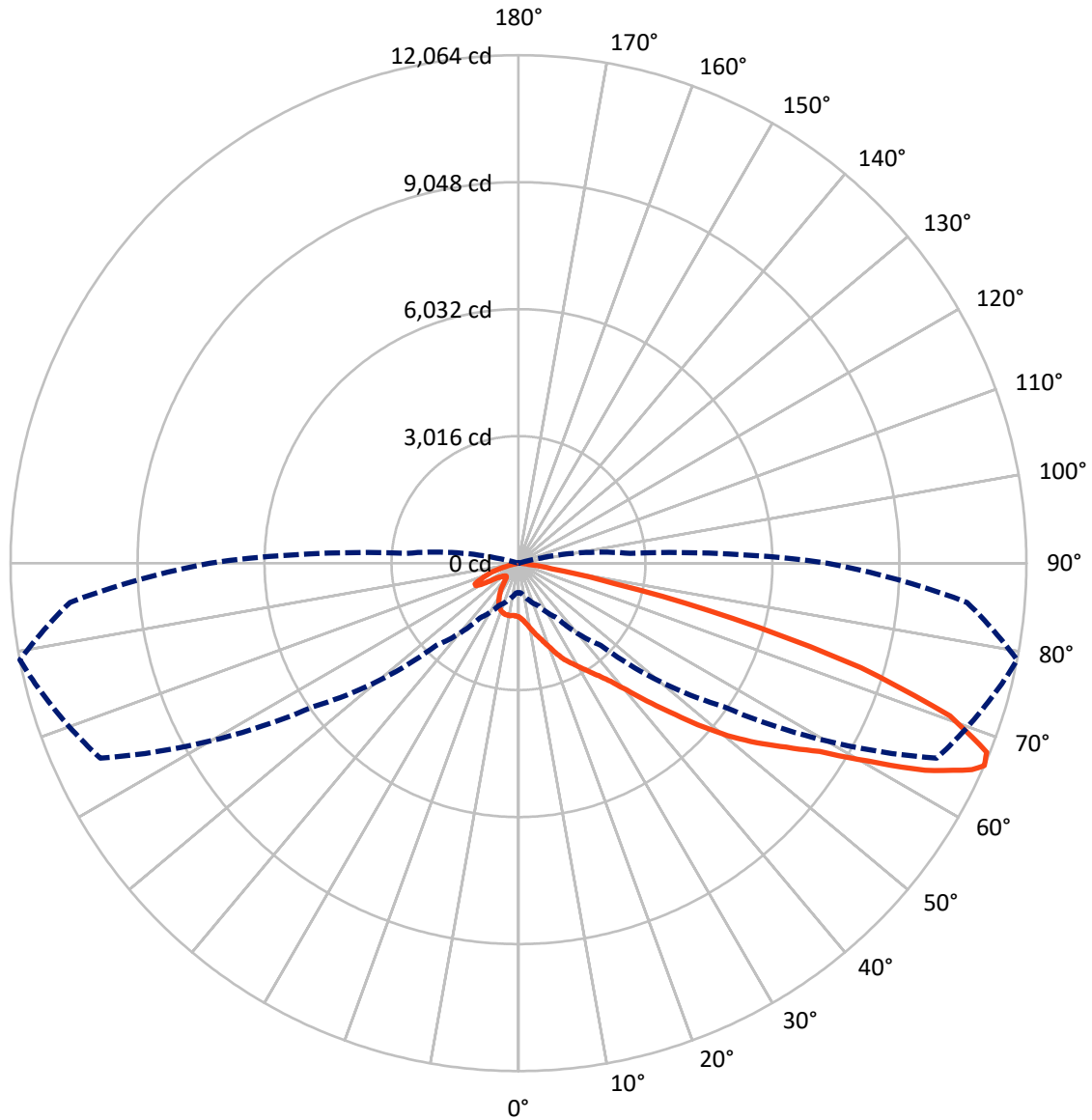
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.8 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



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

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	770.1	0.0	770.1
	% Fixture	7.5	0.0	7.5
<b>Street Side</b>	Lumens	9485.7	0.0	9485.7
	% Fixture	92.5	0.0	92.5
<b>Total</b>	Lumens	10255.7	0.0	10255.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	120.7	1.2
10°-20°	332.1	3.2
20°-30°	551.7	5.4
30°-40°	947.6	9.2
40°-50°	1716.7	16.7
50°-60°	2713.6	26.5
60°-70°	2761.3	26.9
70°-80°	1053.0	10.3
80°-90°	59.0	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°	10255.7	100.0
0°-180°	10255.7	100.0

**Coefficient of Utilization**



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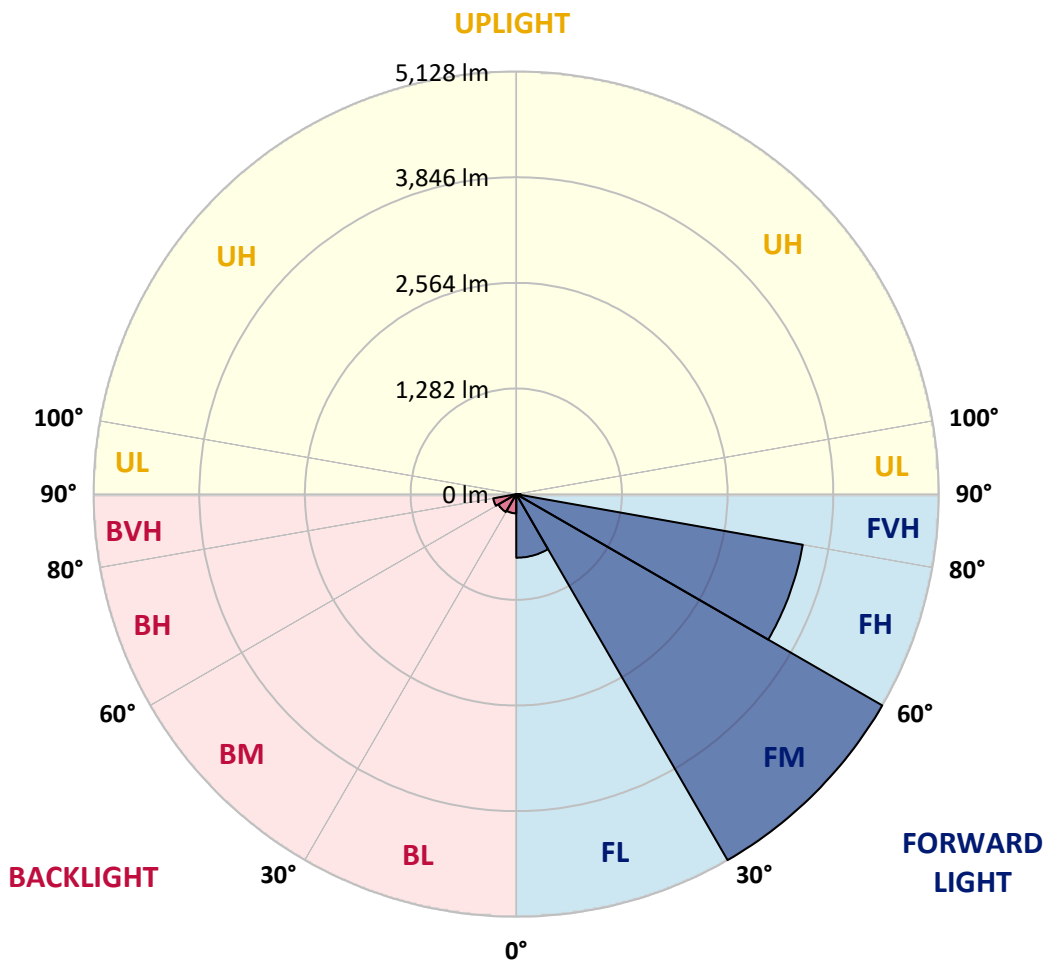
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	771.6	7.5			
FM (30°-60°)	5127.6	50.0			
FH (60°-80°)	3530.4	34.4			G2/5000
FVH (80°-90°)	56.0	0.5			G1/100
BL (0°-30°)	232.9	2.3	B1/500		
BM (30°-60°)	250.3	2.4	B1/1000		
BH (60°-80°)	283.9	2.8	B1/500		G1/500
BVH (80°-90°)	3.0	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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	1275.9	1275.9	1275.9	1275.9	1275.9	1275.9	1275.9	1275.9	1275.9	1275.9	1275.9
2.5°	1445.1	1443.5	1437.2	1426.1	1411.9	1407.2	1386.6	1358.2	1342.3	1325.0	1317.0
5°	1544.7	1536.8	1555.8	1547.9	1551.0	1513.1	1487.8	1467.2	1407.2	1383.5	1345.5
7.5°	1566.9	1574.8	1573.2	1585.8	1598.5	1612.7	1595.3	1565.3	1505.2	1470.4	1429.3
10°	1566.9	1563.7	1576.3	1593.7	1630.1	1661.7	1709.2	1669.6	1623.8	1582.7	1508.4
12.5°	1538.4	1533.7	1546.3	1582.7	1647.5	1712.3	1764.5	1802.4	1737.6	1704.4	1608.0
15°	1451.4	1446.7	1498.9	1563.7	1649.1	1755.0	1864.1	1925.8	1881.5	1829.3	1721.8
17.5°	1343.9	1350.2	1405.6	1513.1	1649.1	1775.6	1914.7	2049.1	2042.8	1976.4	1864.1
20°	1307.6	1312.3	1367.6	1445.1	1600.1	1789.8	1993.8	2183.5	2221.4	2142.4	1995.3
22.5°	1377.1	1372.4	1377.1	1424.6	1566.9	1777.1	2045.9	2336.8	2404.8	2343.2	2167.7
25°	1614.3	1611.1	1571.6	1498.9	1547.9	1748.7	2072.8	2438.0	2594.6	2537.6	2306.8
27.5°	1962.1	1949.5	1887.8	1736.0	1636.4	1766.1	2117.1	2536.1	2760.6	2695.8	2431.7
30°	2335.3	2305.2	2224.6	2034.9	1865.7	1830.9	2142.4	2608.8	2945.6	2863.3	2540.8
32.5°	2593.0	2632.5	2607.2	2414.3	2155.0	1981.1	2183.5	2700.5	3116.3	3062.6	2727.4
35°	2991.4	3037.3	2931.3	2760.6	2499.7	2219.8	2270.4	2774.8	3378.8	3288.7	2901.3
37.5°	3494.2	3529.0	3453.1	3129.0	2853.9	2513.9	2449.1	2929.8	3604.9	3562.2	3124.2
40°	3747.2	3914.8	3807.3	3514.8	3219.1	2925.0	2744.8	3111.6	3998.6	3963.8	3432.5
42.5°	4096.6	4180.4	4125.1	3908.4	3600.1	3364.6	3110.0	3465.7	4476.1	4476.1	3849.9
45°	4466.6	4469.7	4466.6	4289.5	4016.0	3894.2	3603.3	3910.0	4989.9	5046.8	4349.6
47.5°	4770.1	4865.0	4857.1	4751.2	4539.3	4493.4	4096.6	4416.0	5635.0	5734.6	4836.5
50°	4926.7	5032.6	5064.2	5119.6	5110.1	5206.5	4635.7	5002.6	6191.5	6436.6	5462.7
52.5°	4884.0	4891.9	5086.4	5304.5	5652.4	5922.8	5285.6	5668.2	6842.9	7084.9	5946.5
55°	4534.6	4504.5	4904.5	5154.3	5873.7	6360.7	6185.2	6498.3	7350.5	7718.9	6446.1
57.5°	3767.7	3775.6	4145.6	4653.1	5709.3	6534.6	7146.5	7582.9	8062.0	8433.5	7148.1
60°	2600.9	2591.4	3005.6	3592.2	4743.3	6210.5	7699.9	8988.5	9013.8	9540.3	8408.2
62.5°	1462.5	1465.7	1780.3	2281.5	3318.7	5075.3	7673.0	10481.0	10373.5	10835.2	9840.7
65°	828.5	849.0	1065.7	1351.8	1987.4	3407.2	6599.5	11075.5	11421.8	11832.9	10710.3
66°	700.4	714.7	899.6	1116.2	1585.8	2763.7	5940.1	10960.1	11750.6	12063.7	10692.9
67.5°	542.3	561.3	716.2	885.4	1163.7	1913.1	4781.2	10386.2	11810.7	11994.1	10390.9
70°	371.6	384.2	502.8	672.0	795.3	978.7	2858.6	8586.9	10716.6	10871.6	9031.2
72.5°	260.9	267.2	352.6	509.1	611.9	559.7	1418.2	6109.3	8201.1	8503.1	7024.8
75°	188.1	194.5	241.9	365.2	477.5	366.8	649.8	3902.1	5029.4	5266.6	4231.0
77.5°	136.0	143.9	164.4	235.6	346.3	257.7	319.4	2038.0	2371.6	2330.5	1819.8
80°	82.2	90.1	121.7	151.8	253.0	181.8	175.5	850.6	841.1	798.4	572.4
82.5°	37.9	44.3	64.8	102.8	177.1	126.5	83.8	303.6	265.6	243.5	161.3
85°	11.1	14.2	37.9	77.5	90.1	61.7	50.6	104.4	109.1	93.3	53.8
87.5°	0.0	1.6	17.4	19.0	26.9	20.6	19.0	26.9	50.6	41.1	17.4
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°	1275.9	1275.9	1275.9	1275.9	1275.9	1275.9	1275.9	1275.9	1275.9	1275.9	1275.9
2.5°	1288.6	1277.5	1250.6	1209.5	1173.2	1154.2	1127.3	1103.6	1091.0	1089.4	1087.8
5°	1320.2	1290.2	1225.3	1151.0	1095.7	1035.6	994.5	964.5	936.0	909.1	924.9
7.5°	1362.9	1315.5	1209.5	1113.1	992.9	915.4	842.7	800.0	774.7	751.0	747.9
10°	1429.3	1369.2	1198.5	1024.5	887.0	773.2	698.8	637.2	602.4	561.3	577.1
12.5°	1519.4	1411.9	1157.4	943.9	766.8	646.7	540.7	441.1	385.8	343.1	344.7
15°	1609.5	1468.8	1119.4	845.9	657.7	499.6	344.7	276.7	260.9	251.4	254.6
17.5°	1698.1	1514.7	1060.9	746.3	532.8	317.8	251.4	237.2	229.3	219.8	219.8
20°	1805.6	1544.7	988.2	654.6	366.8	235.6	215.0	205.5	192.9	180.2	181.8
22.5°	1910.0	1570.0	904.4	537.6	246.6	204.0	180.2	167.6	156.5	143.9	143.9
25°	2014.3	1577.9	795.3	385.8	199.2	162.9	140.7	123.3	112.3	101.2	102.8
27.5°	2085.5	1528.9	692.5	246.6	159.7	123.3	98.0	83.8	74.3	63.2	63.2
30°	2126.6	1438.8	581.8	173.9	120.2	83.8	58.5	44.3	34.8	26.9	25.3
32.5°	2167.7	1366.1	456.9	132.8	79.1	44.3	22.1	7.9	0.0	0.0	0.0
35°	2249.9	1283.8	306.7	74.3	26.9	1.6	0.0	0.0	0.0	0.0	0.0
37.5°	2302.1	1170.0	140.7	11.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	2433.3	1113.1	34.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	2646.7	1073.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	2880.7	1057.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	3192.2	1100.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	3521.1	1215.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	3881.6	1325.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	4196.2	1456.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	4774.9	1766.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	5813.7	2374.8	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	6983.7	2827.0	17.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	7412.1	2815.9	30.0	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	7336.2	2661.0	30.0	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	6942.6	2363.7	26.9	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	5962.3	1952.6	26.9	4.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	4545.6	1521.0	25.3	6.3	1.6	0.0	0.0	0.0	0.0	0.0	0.0
75°	2743.2	809.5	20.6	7.9	3.2	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	1092.5	284.6	15.8	6.3	3.2	0.0	0.0	0.0	0.0	0.0	0.0
80°	295.7	85.4	9.5	6.3	4.7	1.6	0.0	0.0	0.0	0.0	0.0
82.5°	77.5	31.6	7.9	6.3	3.2	1.6	0.0	0.0	0.0	0.0	0.0
85°	30.0	12.6	6.3	4.7	4.7	3.2	1.6	0.0	0.0	0.0	0.0
87.5°	9.5	4.7	4.7	3.2	3.2	1.6	1.6	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)