

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: P481512

Luminaire Tested: **IFLD-S-SA3C-722-U-T2-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P481512
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3C-722-U-T2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2
distribution lens with House Side Shield
Light Source: (48) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

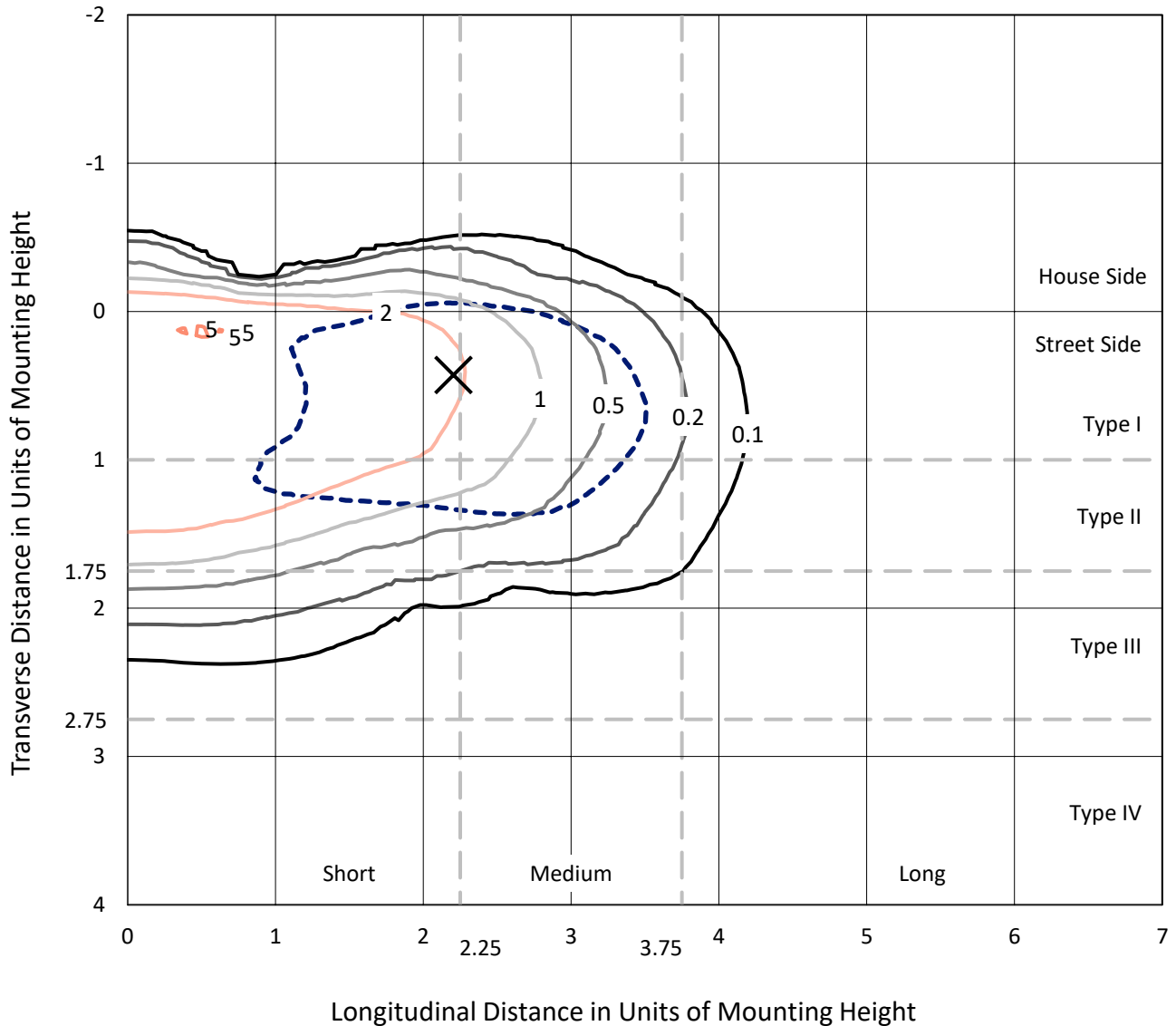
Lumens per Lamp: N/A
Luminaire Lumens: 11236.1 lumens
Efficiency: N/A
Efficacy: 69.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 160.8
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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Iso-Footcandle Lines of Horizontal Illumination

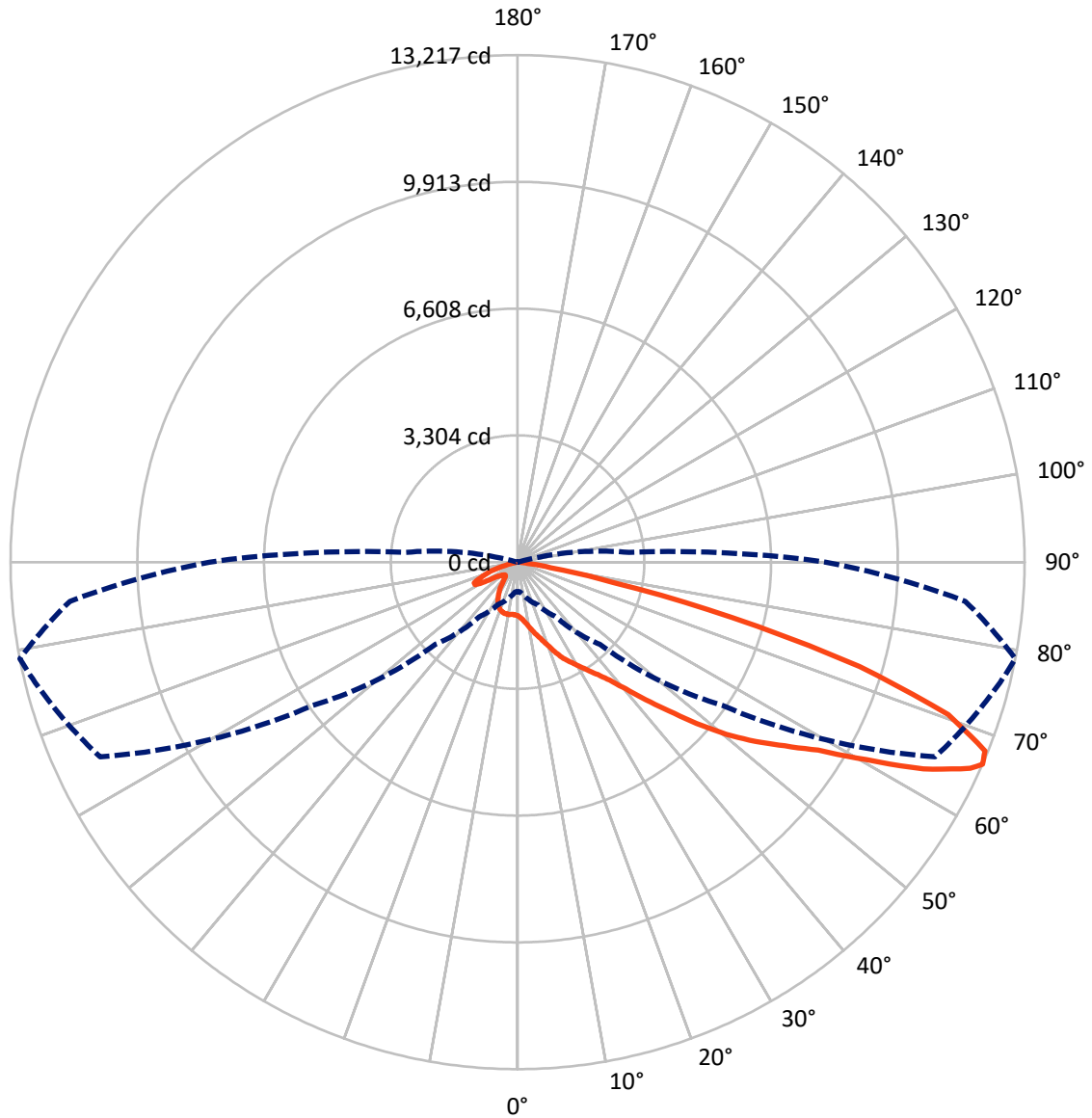
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.3 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
House Side	Lumens	843.7	0.0	843.7
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	10392.4	0.0	10392.4
	% Fixture	92.5	0.0	92.5
Total	Lumens	11236.1	0.0	11236.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.2	1.2
10°-20°	363.8	3.2
20°-30°	604.4	5.4
30°-40°	1038.2	9.2
40°-50°	1880.8	16.7
50°-60°	2973.0	26.5
60°-70°	3025.2	26.9
70°-80°	1153.7	10.3
80°-90°	64.7	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°	11236.1	100.0
0°-180°	11236.1	100.0

Coefficient of Utilization



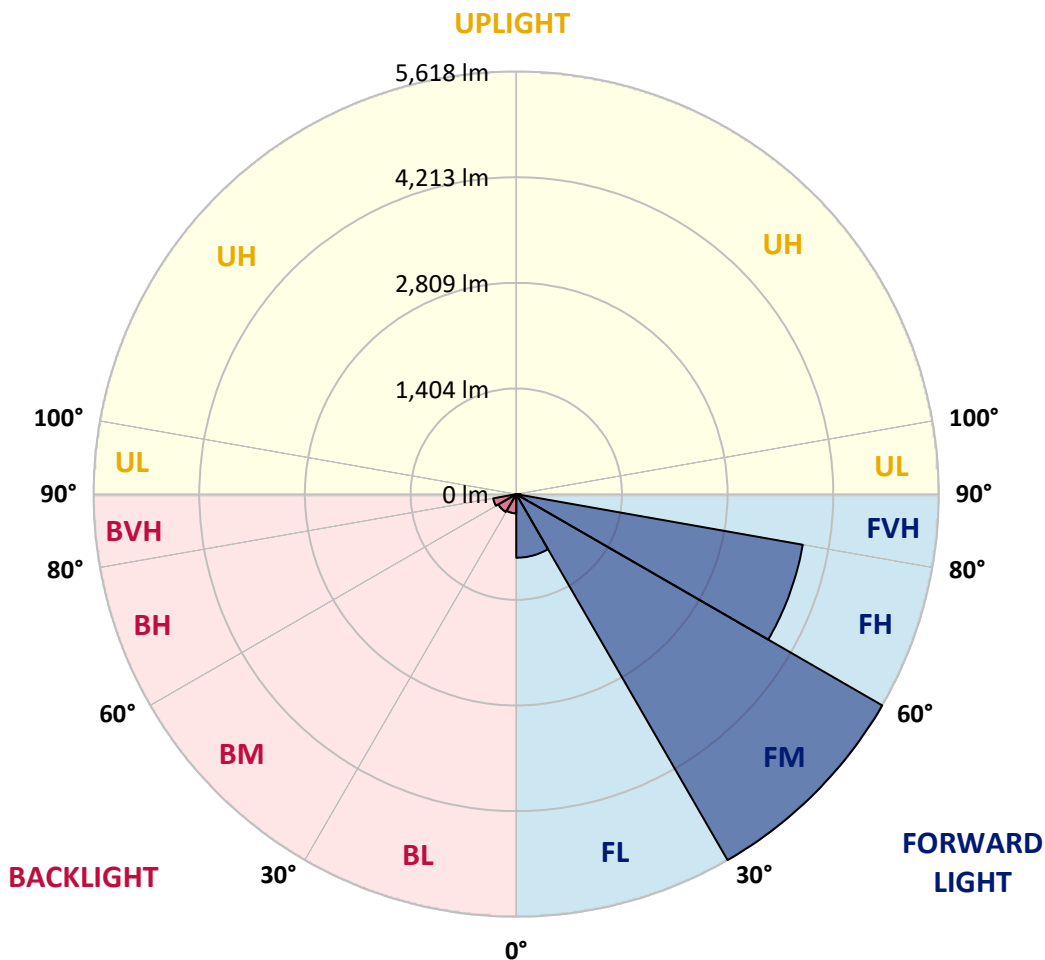
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	845.3	7.5			
FM (30°-60°)	5617.8	50.0			
FH (60°-80°)	3867.9	34.4			G2/5000
FVH (80°-90°)	61.4	0.5			G1/100
BL (0°-30°)	255.1	2.3	B1/500		
BM (30°-60°)	274.2	2.4	B1/1000		
BH (60°-80°)	311.0	2.8	B1/500		G1/500
BVH (80°-90°)	3.3	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°	1397.9	1397.9	1397.9	1397.9	1397.9	1397.9	1397.9	1397.9	1397.9	1397.9	1397.9
2.5°	1583.2	1581.5	1574.6	1562.5	1546.9	1541.7	1519.2	1488.0	1470.7	1451.6	1442.9
5°	1692.4	1683.7	1704.5	1695.8	1699.3	1657.7	1630.0	1607.5	1541.7	1515.7	1474.1
7.5°	1716.6	1725.3	1723.6	1737.4	1751.3	1766.9	1747.8	1714.9	1649.1	1611.0	1565.9
10°	1716.6	1713.2	1727.0	1746.1	1785.9	1820.6	1872.5	1829.2	1779.0	1734.0	1652.5
12.5°	1685.4	1680.3	1694.1	1734.0	1805.0	1876.0	1933.2	1974.7	1903.7	1867.3	1761.7
15°	1590.2	1585.0	1642.1	1713.2	1806.7	1922.8	2042.3	2109.8	2061.3	2004.2	1886.4
17.5°	1472.4	1479.3	1539.9	1657.7	1806.7	1945.3	2097.7	2245.0	2238.0	2165.3	2042.3
20°	1432.5	1437.7	1498.4	1583.2	1753.0	1960.9	2184.3	2392.2	2433.8	2347.2	2186.1
22.5°	1508.8	1503.6	1508.8	1560.7	1716.6	1947.0	2241.5	2560.2	2634.7	2567.1	2374.9
25°	1768.6	1765.1	1721.8	1642.1	1695.8	1915.8	2270.9	2671.1	2842.6	2780.2	2527.3
27.5°	2149.7	2135.8	2068.3	1902.0	1792.8	1934.9	2319.4	2778.5	3024.5	2953.4	2664.2
30°	2558.5	2525.6	2437.2	2229.4	2044.0	2005.9	2347.2	2858.2	3227.1	3137.0	2783.7
32.5°	2840.8	2884.1	2856.4	2645.1	2361.0	2170.5	2392.2	2958.6	3414.2	3355.3	2988.1
35°	3277.4	3327.6	3211.5	3024.5	2738.6	2432.0	2487.5	3040.0	3701.8	3603.0	3178.6
37.5°	3828.2	3866.3	3783.2	3428.1	3126.7	2754.2	2683.2	3209.8	3949.5	3902.7	3422.9
40°	4105.4	4289.0	4171.2	3850.7	3526.8	3204.6	3007.1	3409.0	4380.8	4342.7	3760.6
42.5°	4488.2	4580.0	4519.4	4282.0	3944.3	3686.2	3407.3	3797.0	4903.9	4903.9	4218.0
45°	4893.5	4897.0	4893.5	4699.5	4399.8	4266.5	3947.7	4283.8	5466.9	5529.2	4765.3
47.5°	5226.1	5330.0	5321.4	5205.3	4973.2	4923.0	4488.2	4838.1	6173.6	6282.8	5298.9
50°	5397.6	5513.7	5548.3	5608.9	5598.5	5704.2	5078.9	5480.7	6783.4	7051.9	5984.8
52.5°	5350.8	5359.5	5572.5	5811.6	6192.7	6488.9	5790.8	6210.0	7497.0	7762.1	6514.9
55°	4968.0	4935.1	5373.3	5647.0	6435.2	6968.7	6776.4	7119.4	8053.1	8456.7	7062.3
57.5°	4127.9	4136.5	4541.9	5097.9	6255.0	7159.3	7829.6	8307.7	8832.6	9239.7	7831.4
60°	2849.5	2839.1	3292.9	3935.6	5196.7	6804.2	8435.9	9847.7	9875.4	10452.2	9211.9
62.5°	1602.3	1605.8	1950.5	2499.6	3635.9	5560.4	8406.5	11482.9	11365.1	11870.9	10781.3
65°	907.7	930.2	1167.5	1481.0	2177.4	3732.9	7230.3	12134.2	12513.6	12963.9	11734.1
66°	767.4	783.0	985.6	1222.9	1737.4	3027.9	6507.9	12007.7	12873.9	13216.8	11715.0
67.5°	594.2	614.9	784.7	970.0	1274.9	2096.0	5238.2	11378.9	12939.7	13140.6	11384.1
70°	407.1	420.9	550.8	736.2	871.3	1072.2	3131.9	9407.7	11741.0	11910.7	9894.4
72.5°	285.8	292.7	386.3	557.8	670.4	613.2	1553.8	6693.3	8985.0	9315.9	7696.3
75°	206.1	213.1	265.0	400.1	523.1	401.9	711.9	4275.1	5510.2	5770.0	4635.4
77.5°	149.0	157.6	180.2	258.1	379.4	282.4	349.9	2232.8	2598.3	2553.3	1993.8
80°	90.1	98.7	133.4	166.3	277.2	199.2	192.3	931.9	921.5	874.8	627.1
82.5°	41.6	48.5	71.0	112.6	194.0	138.6	91.8	332.6	291.0	266.8	176.7
85°	12.1	15.6	41.6	84.9	98.7	67.6	55.4	114.3	119.5	102.2	58.9
87.5°	0.0	1.7	19.1	20.8	29.4	22.5	20.8	29.4	55.4	45.0	19.1
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°	1397.9	1397.9	1397.9	1397.9	1397.9	1397.9	1397.9	1397.9	1397.9	1397.9	1397.9
2.5°	1411.8	1399.6	1370.2	1325.1	1285.3	1264.5	1235.1	1209.1	1195.2	1193.5	1191.8
5°	1446.4	1413.5	1342.5	1261.1	1200.4	1134.6	1089.6	1056.7	1025.5	996.0	1013.3
7.5°	1493.2	1441.2	1325.1	1219.5	1087.8	1003.0	923.3	876.5	848.8	822.8	819.3
10°	1565.9	1500.1	1313.0	1122.5	971.8	847.1	765.6	698.1	660.0	614.9	632.3
12.5°	1664.7	1546.9	1268.0	1034.1	840.1	708.5	592.4	483.3	422.7	375.9	377.6
15°	1763.4	1609.2	1226.4	926.7	720.6	547.4	377.6	303.1	285.8	275.4	278.9
17.5°	1860.4	1659.5	1162.3	817.6	583.8	348.2	275.4	259.8	251.2	240.8	240.8
20°	1978.2	1692.4	1082.6	717.1	401.9	258.1	235.6	225.2	211.3	197.5	199.2
22.5°	2092.5	1720.1	990.8	589.0	270.2	223.5	197.5	183.6	171.5	157.6	157.6
25°	2206.8	1728.8	871.3	422.7	218.3	178.4	154.2	135.1	123.0	110.9	112.6
27.5°	2284.8	1675.1	758.7	270.2	175.0	135.1	107.4	91.8	81.4	69.3	69.3
30°	2329.8	1576.3	637.5	190.5	131.6	91.8	64.1	48.5	38.1	29.4	27.7
32.5°	2374.9	1496.6	500.6	145.5	86.6	48.5	24.3	8.7	0.0	0.0	0.0
35°	2464.9	1406.6	336.1	81.4	29.4	1.7	0.0	0.0	0.0	0.0	0.0
37.5°	2522.1	1281.8	154.2	12.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	2665.9	1219.5	38.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	2899.7	1176.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	3156.1	1158.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	3497.4	1205.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	3857.7	1332.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	4252.6	1451.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	4597.3	1595.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	5231.3	1934.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	6369.4	2601.8	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	7651.2	3097.2	19.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	8120.6	3085.1	32.9	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	8037.5	2915.3	32.9	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	7606.2	2589.7	29.4	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	6532.2	2139.3	29.4	5.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	4980.1	1666.4	27.7	6.9	1.7	0.0	0.0	0.0	0.0	0.0	0.0
75°	3005.4	886.9	22.5	8.7	3.5	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	1197.0	311.8	17.3	6.9	3.5	0.0	0.0	0.0	0.0	0.0	0.0
80°	323.9	93.5	10.4	6.9	5.2	1.7	0.0	0.0	0.0	0.0	0.0
82.5°	84.9	34.6	8.7	6.9	3.5	1.7	0.0	0.0	0.0	0.0	0.0
85°	32.9	13.9	6.9	5.2	5.2	3.5	1.7	0.0	0.0	0.0	0.0
87.5°	10.4	5.2	5.2	3.5	3.5	1.7	1.7	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)