

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: P481233

Luminaire Tested: **IFLD-S-SA2B-735-U-RW**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P481233  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2B-735-U-RW  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ RW distribution lens  
Light Source: (32) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

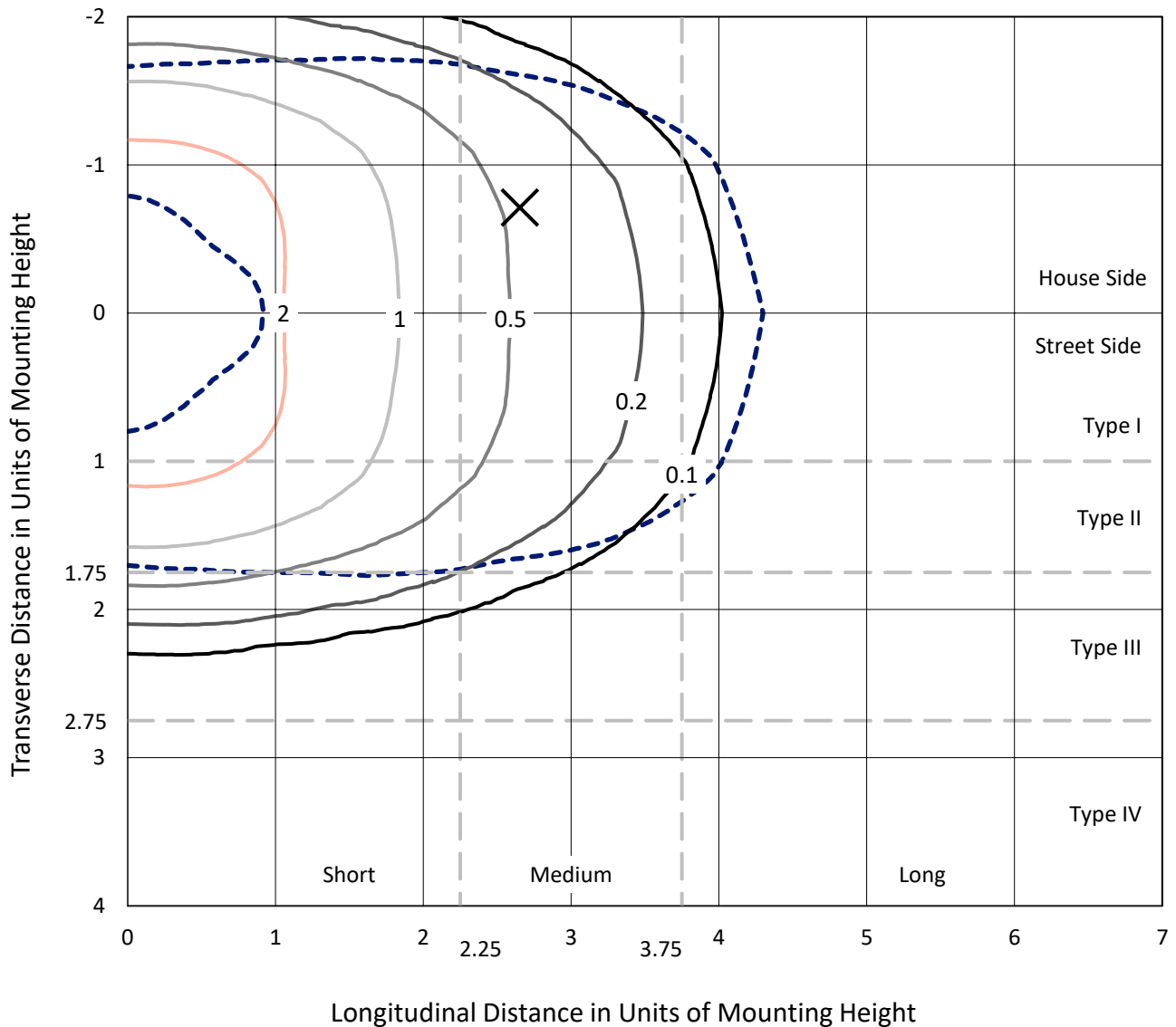
Lumens per Lamp: N/A  
Luminaire Lumens: 11599.5 lumens  
Efficiency: N/A  
Efficacy: 140.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

Input Watts (W): 82.4  
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

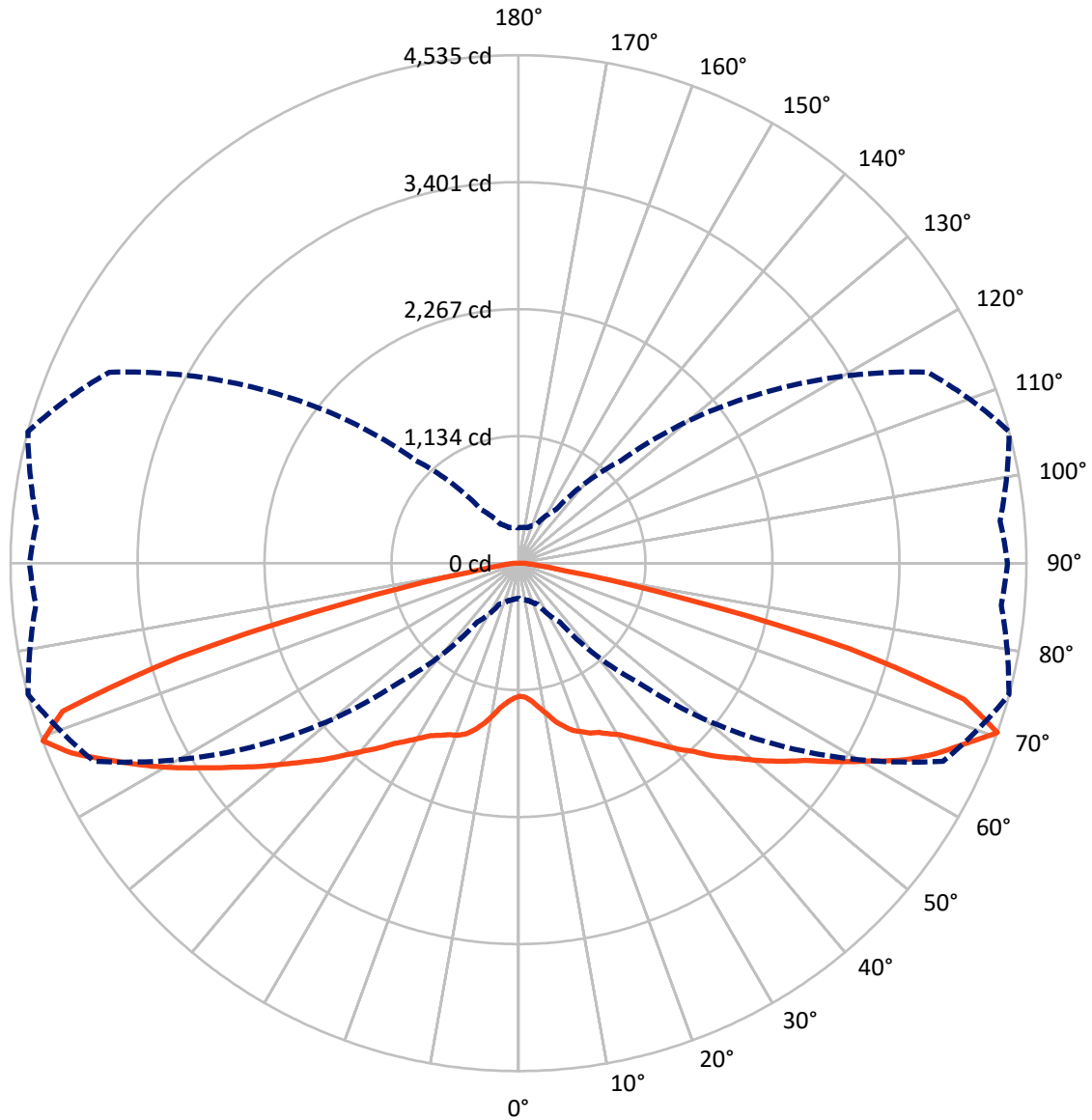
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.5 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 105-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5758.5	0.0	5758.5
	% Fixture	49.6	0.0	49.6
<b>Street Side</b>	Lumens	5841.0	0.0	5841.0
	% Fixture	50.4	0.0	50.4
<b>Total</b>	Lumens	11599.5	0.0	11599.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	118.2	1.0
10°-20°	402.5	3.5
20°-30°	779.5	6.7
30°-40°	1318.4	11.4
40°-50°	2103.2	18.1
50°-60°	2878.8	24.8
60°-70°	2713.5	23.4
70°-80°	1195.4	10.3
80°-90°	89.9	0.8
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°	11599.5	100.0
0°-180°	11599.5	100.0

**Coefficient of Utilization**

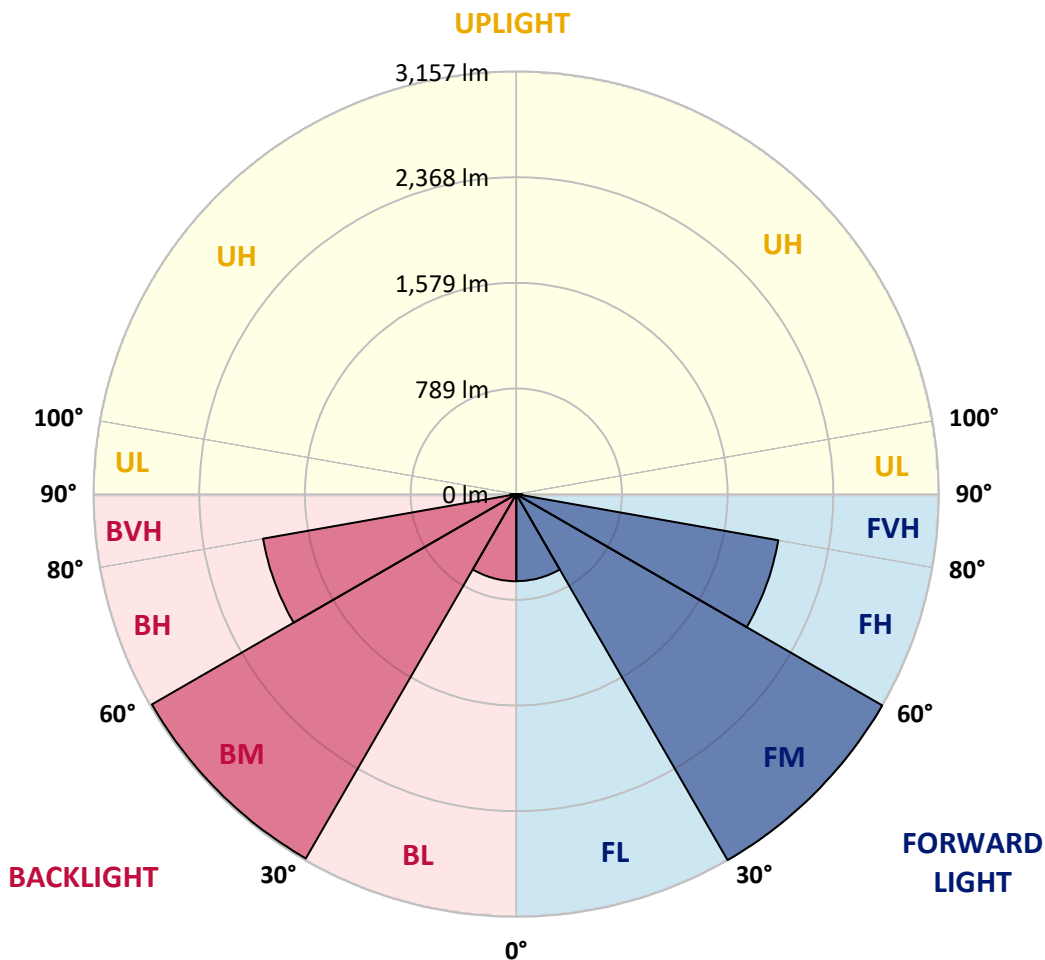


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	649.8	5.6			
FM (30°-60°)	3157.3	27.2			
FH (60°-80°)	1988.0	17.1			G2/5000
FVH (80°-90°)	45.9	0.4			G1/100
BL (0°-30°)	650.5	5.6	B2/1000		
BM (30°-60°)	3143.2	27.1	B3/5000		
BH (60°-80°)	1920.9	16.6	B3/2500		G3/2500
BVH (80°-90°)	44.0	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1187.8	1187.8	1187.8	1187.8	1187.8	1187.8	1187.8	1187.8	1187.8	1187.8	1187.8
2.5°	1180.3	1180.3	1179.0	1185.3	1191.5	1194.0	1199.0	1200.3	1207.8	1201.5	1214.0
5°	1176.5	1175.3	1185.3	1200.3	1200.3	1216.5	1226.5	1240.3	1244.0	1251.5	1254.0
7.5°	1202.8	1200.3	1195.3	1211.5	1225.3	1250.3	1264.0	1287.8	1296.6	1306.6	1317.8
10°	1219.0	1219.0	1214.0	1242.8	1255.3	1289.1	1319.1	1342.8	1376.6	1387.8	1389.1
12.5°	1221.5	1225.3	1240.3	1277.8	1312.8	1356.6	1379.1	1424.1	1457.8	1479.1	1486.6
15°	1259.0	1251.5	1267.8	1319.1	1370.3	1409.1	1449.1	1481.6	1530.4	1557.9	1575.4
17.5°	1292.8	1285.3	1315.3	1376.6	1429.1	1489.1	1524.1	1559.1	1594.1	1619.1	1620.4
20°	1346.6	1352.8	1379.1	1445.3	1514.1	1566.6	1606.6	1612.9	1630.4	1666.6	1660.4
22.5°	1412.8	1407.8	1462.8	1535.4	1610.4	1654.1	1676.6	1660.4	1651.6	1690.4	1699.1
25°	1479.1	1494.1	1544.1	1611.6	1701.6	1760.4	1766.7	1721.7	1689.1	1702.9	1699.1
27.5°	1580.4	1582.9	1635.4	1715.4	1806.7	1857.9	1854.2	1790.4	1727.9	1729.2	1731.7
30°	1710.4	1697.9	1755.4	1827.9	1917.9	1964.2	1970.5	1879.2	1795.4	1770.4	1776.7
32.5°	1835.4	1850.4	1900.4	1983.0	2049.2	2075.5	2061.7	1980.5	1871.7	1837.9	1841.7
35°	1995.5	1993.0	2061.7	2131.7	2181.8	2186.8	2175.5	2056.7	1954.2	1910.4	1892.9
37.5°	2166.8	2189.3	2234.3	2291.8	2344.3	2346.8	2285.5	2190.5	2064.2	1991.7	2013.0
40°	2358.0	2383.1	2415.6	2499.3	2538.1	2498.1	2435.6	2306.8	2175.5	2111.7	2121.7
42.5°	2526.8	2538.1	2604.4	2703.1	2721.9	2704.4	2611.9	2455.6	2303.0	2233.0	2238.0
45°	2681.9	2696.9	2783.1	2871.9	2915.7	2885.7	2778.1	2629.4	2451.8	2391.8	2368.1
47.5°	2824.4	2854.4	2938.2	3029.5	3097.0	3099.5	2966.9	2786.9	2599.4	2520.6	2519.3
50°	2920.7	2964.4	3047.0	3150.7	3249.5	3288.3	3155.7	2961.9	2760.6	2676.9	2668.1
52.5°	2973.2	3018.2	3100.7	3262.0	3372.0	3432.0	3369.5	3125.7	2949.4	2861.9	2848.2
55°	2909.4	2939.4	3074.5	3300.8	3470.8	3569.6	3528.3	3352.0	3137.0	3065.7	3078.2
57.5°	2638.1	2700.6	2866.9	3149.5	3468.3	3710.9	3707.1	3565.8	3353.3	3285.8	3288.3
60°	2171.8	2224.3	2429.3	2824.4	3328.3	3768.4	3900.9	3773.4	3595.8	3517.1	3514.6
62.5°	1532.9	1599.1	1836.7	2268.0	2915.7	3688.4	4123.5	4034.7	3833.4	3775.9	3797.1
65°	857.7	897.7	1117.8	1507.9	2221.8	3248.3	4163.5	4306.0	4074.7	3987.2	3990.9
67.5°	458.9	473.9	576.4	791.4	1359.1	2504.3	3759.6	4462.3	4336.0	4184.7	4161.0
70°	315.1	320.1	346.3	405.1	642.6	1497.8	2835.7	4183.5	4532.3	4326.0	4366.0
72.5°	266.3	263.8	270.1	276.3	336.3	670.2	1664.1	3219.5	4278.5	4201.0	4186.0
75°	231.3	230.1	232.6	226.3	233.8	295.1	736.4	2006.7	3132.0	3495.8	3552.1
77.5°	191.3	192.5	193.8	187.5	185.0	195.0	296.3	881.5	1541.6	1701.6	1835.4
80°	145.0	147.5	157.5	151.3	141.3	142.5	175.0	295.1	442.6	401.3	413.8
82.5°	98.8	100.0	121.3	113.8	106.3	96.3	112.5	152.5	172.5	131.3	115.0
85°	70.0	68.8	78.8	72.5	67.5	48.8	67.5	86.3	103.8	65.0	58.8
87.5°	16.3	16.3	32.5	26.3	25.0	20.0	26.3	33.8	45.0	28.8	26.3
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):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1187.8	1187.8	1187.8	1187.8	1187.8	1187.8	1187.8	1187.8	1187.8	1187.8
2.5°	1210.3	1199.0	1199.0	1196.5	1186.5	1184.0	1175.3	1177.8	1171.5	1165.3
5°	1252.8	1237.8	1237.8	1216.5	1196.5	1194.0	1184.0	1184.0	1174.0	1176.5
7.5°	1311.6	1297.8	1275.3	1256.5	1229.0	1217.8	1199.0	1196.5	1194.0	1189.0
10°	1381.6	1364.1	1341.6	1302.8	1280.3	1259.0	1240.3	1214.0	1207.8	1209.0
12.5°	1476.6	1449.1	1400.3	1366.6	1337.8	1310.3	1282.8	1244.0	1235.3	1239.0
15°	1544.1	1509.1	1460.3	1447.8	1409.1	1375.3	1330.3	1286.5	1271.5	1267.8
17.5°	1599.1	1570.4	1541.6	1522.9	1491.6	1450.3	1387.8	1337.8	1304.1	1300.3
20°	1644.1	1606.6	1600.4	1611.6	1572.9	1545.4	1469.1	1407.8	1362.8	1344.1
22.5°	1671.6	1647.9	1665.4	1675.4	1672.9	1626.6	1547.9	1476.6	1420.3	1402.8
25°	1701.6	1674.1	1736.7	1770.4	1779.2	1702.9	1641.6	1547.9	1492.8	1481.6
27.5°	1716.7	1726.7	1799.2	1870.4	1864.2	1805.4	1722.9	1639.1	1595.4	1575.4
30°	1760.4	1776.7	1886.7	1966.7	1968.0	1910.4	1847.9	1752.9	1704.1	1695.4
32.5°	1839.2	1859.2	1976.7	2061.7	2076.7	2033.0	1970.5	1911.7	1861.7	1841.7
35°	1899.2	1950.5	2083.0	2160.5	2200.5	2174.3	2139.2	2078.0	2025.5	2008.0
37.5°	1985.5	2056.7	2184.3	2289.3	2334.3	2331.8	2305.5	2239.3	2195.5	2180.5
40°	2109.2	2180.5	2296.8	2435.6	2519.3	2515.6	2500.6	2449.3	2384.3	2376.8
42.5°	2240.5	2299.3	2450.6	2609.4	2729.4	2716.9	2676.9	2616.9	2571.8	2561.8
45°	2368.1	2459.3	2599.4	2803.2	2893.2	2924.4	2876.9	2774.4	2723.1	2716.9
47.5°	2528.1	2600.6	2775.6	2958.2	3092.0	3097.0	3015.7	2920.7	2826.9	2846.9
50°	2670.6	2766.9	2944.4	3144.5	3304.5	3247.0	3143.2	3024.5	2956.9	2930.7
52.5°	2823.2	2940.7	3147.0	3350.8	3439.6	3382.0	3213.2	3080.7	2978.2	2966.9
55°	3045.7	3107.0	3377.0	3533.3	3562.1	3440.8	3192.0	3004.5	2871.9	2839.4
57.5°	3272.0	3343.3	3579.6	3714.6	3684.6	3408.3	3054.5	2764.4	2590.6	2544.3
60°	3500.8	3588.3	3787.1	3910.9	3755.9	3184.5	2665.6	2291.8	2089.2	2048.0
62.5°	3755.9	3869.7	4047.2	4091.0	3544.6	2741.9	2115.5	1654.1	1449.1	1380.3
65°	3982.2	4098.5	4317.3	4053.4	3095.7	2045.5	1367.8	945.2	793.9	738.9
67.5°	4168.5	4299.8	4407.3	3587.1	2266.8	1197.8	712.7	497.6	441.4	421.3
70°	4316.0	4534.8	4032.2	2636.9	1295.3	583.9	385.1	327.6	320.1	315.1
72.5°	4187.2	4158.5	3010.7	1521.6	567.6	321.3	278.8	270.1	268.8	270.1
75°	3424.5	3054.5	1800.4	661.4	285.1	232.6	231.3	227.6	233.8	233.8
77.5°	1661.6	1452.8	752.7	283.8	187.5	182.5	188.8	188.8	188.8	188.8
80°	385.1	426.3	268.8	172.5	136.3	136.3	150.0	151.3	145.0	142.5
82.5°	131.3	175.0	147.5	108.8	90.0	101.3	113.8	116.3	96.3	97.5
85°	65.0	102.5	80.0	62.5	46.3	62.5	73.8	77.5	66.3	63.8
87.5°	30.0	45.0	30.0	21.3	16.3	22.5	21.3	17.5	10.0	10.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)