

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: P318257

Luminaire Tested: **GAN-SA3D-830-U-T2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318257
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-12)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA3D-830-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18471 lumens
Efficiency: N/A
Efficacy: 96.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

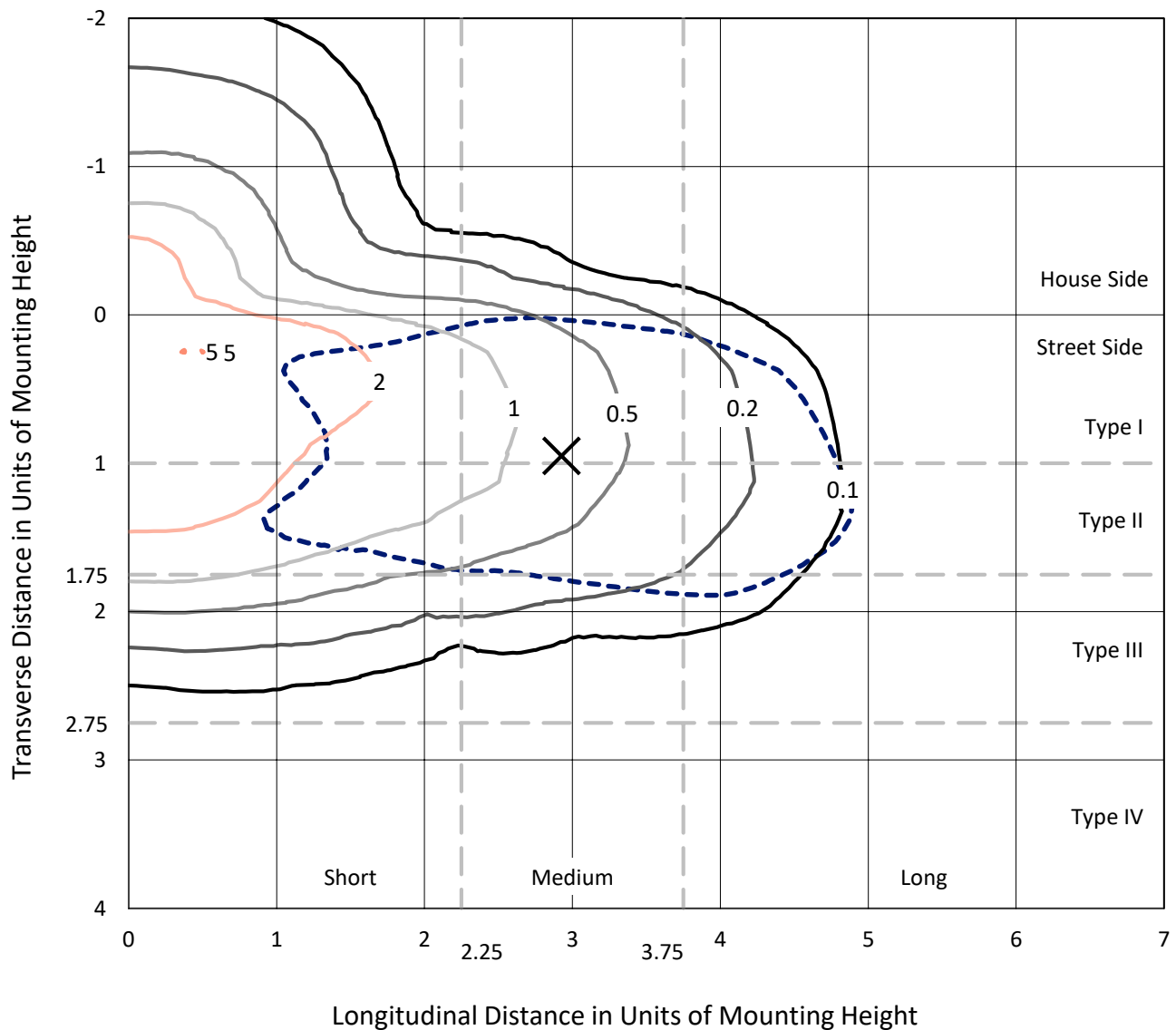
Input Watts (W): 191
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

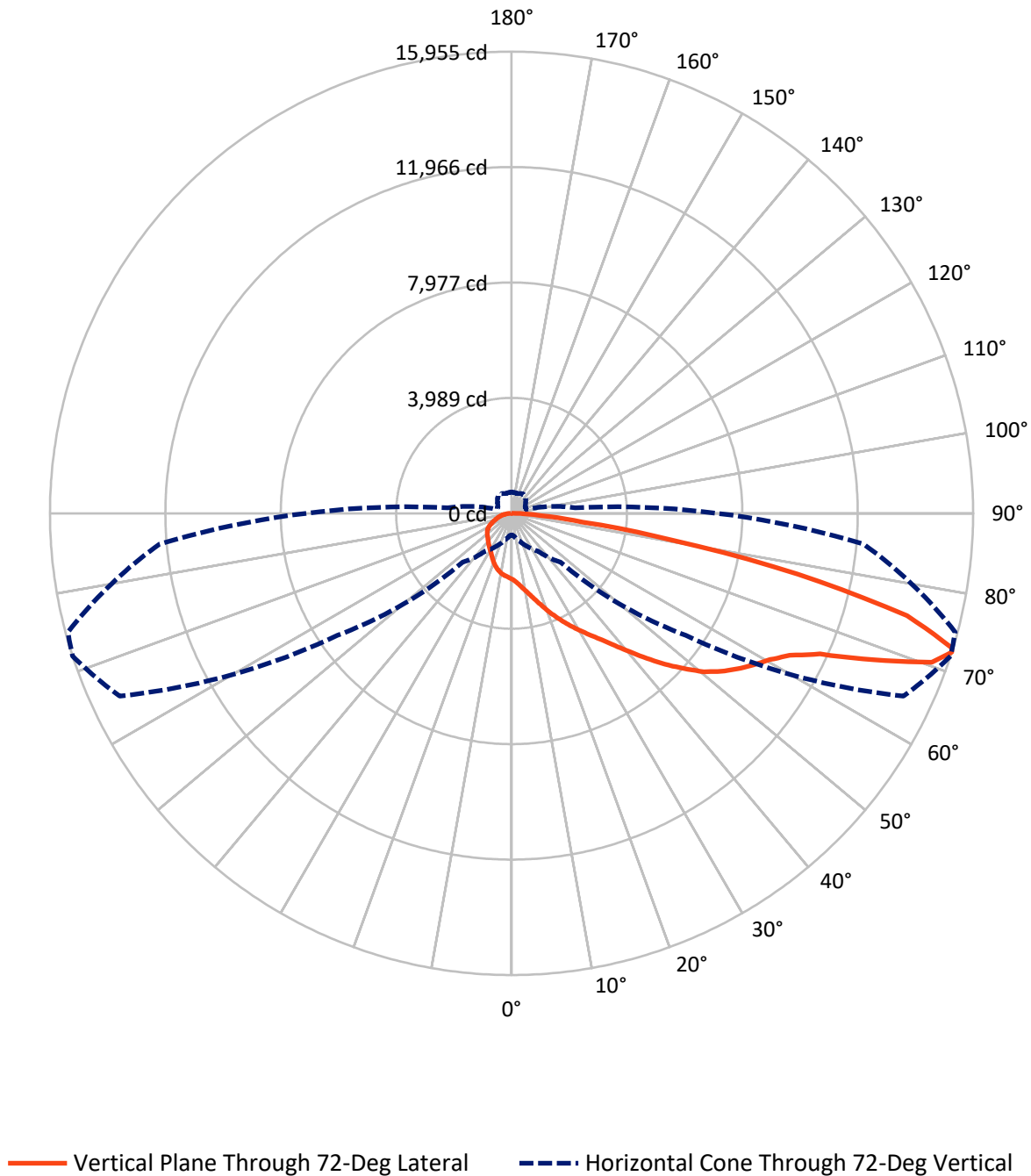
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3426.5	0.0	3426.5
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	15044.5	0.0	15044.5
	% Fixture	81.4	0.0	81.4
Total	Lumens	18471.0	0.0	18471.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	227.7	1.2
10°-20°	735.8	4.0
20°-30°	1289.4	7.0
30°-40°	1911.8	10.4
40°-50°	2796.1	15.1
50°-60°	3847.4	20.8
60°-70°	4283.3	23.2
70°-80°	2902.4	15.7
80°-90°	477.0	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°	18471.0	100.0
0°-180°	18471.0	100.0

Coefficient of Utilization



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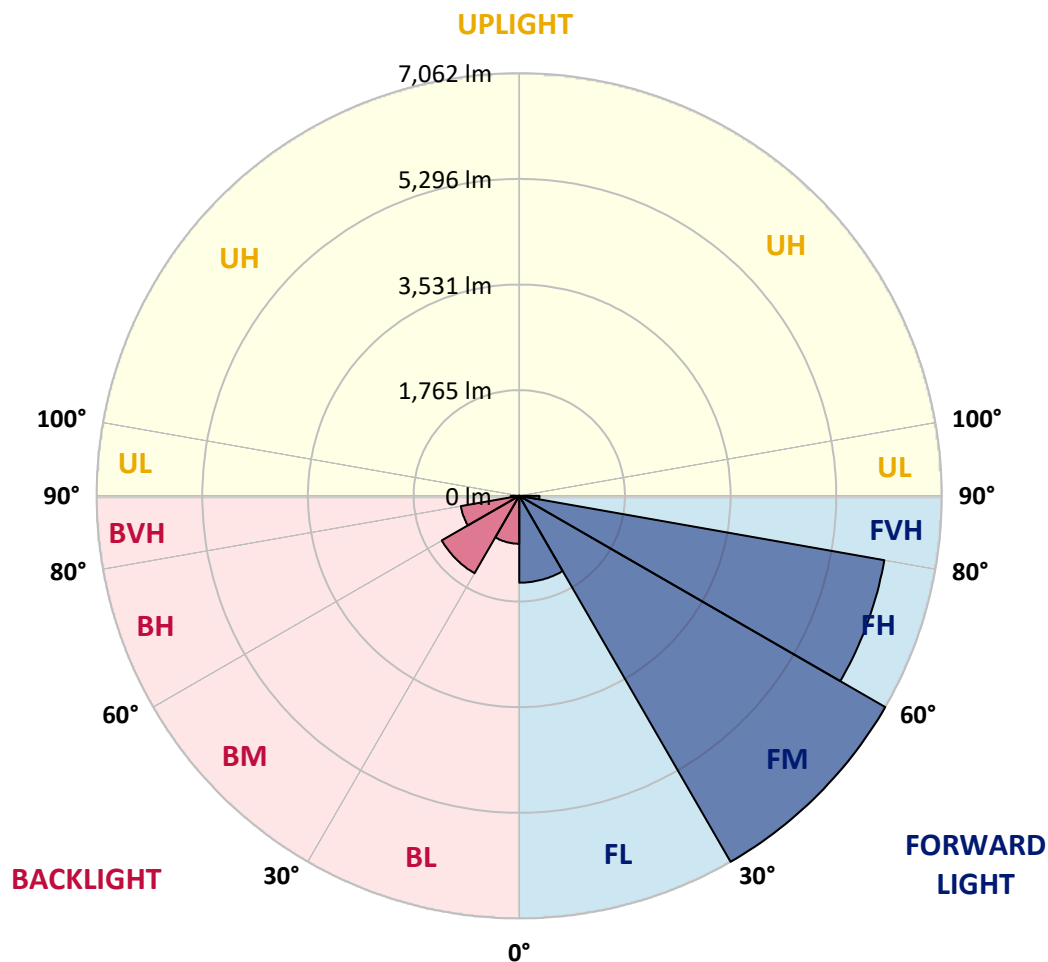
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1451.9	7.9			
FM	(30°-60°)	7061.7	38.2			
FH	(60°-80°)	6194.4	33.5			G3/7500
FVH	(80°-90°)	336.5	1.8			G3/500
BL	(0°-30°)	801.0	4.3	B2/1000		
BM	(30°-60°)	1493.6	8.1	B2/2500		
BH	(60°-80°)	991.3	5.4	B2/1000		G2/1000
BVH	(80°-90°)	140.5	0.8			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	2272.4	2272.4	2272.4	2272.4	2272.4	2272.4	2272.4	2272.4	2272.4	2272.4	2272.4
2.5°	2510.3	2506.5	2493.1	2493.1	2467.7	2446.0	2405.3	2378.0	2345.6	2334.1	2295.9
5°	2753.2	2754.5	2738.0	2726.5	2689.0	2643.2	2573.9	2510.9	2447.9	2422.5	2344.3
7.5°	2957.4	2954.8	2950.4	2940.8	2905.9	2858.8	2765.3	2671.8	2579.0	2540.8	2406.0
10°	3088.4	3094.1	3097.9	3102.4	3087.8	3054.1	2965.7	2851.8	2730.3	2678.2	2479.7
12.5°	3154.5	3164.7	3182.5	3213.1	3237.2	3233.4	3169.2	3048.3	2904.0	2838.5	2572.0
15°	3193.3	3206.7	3234.7	3289.4	3357.4	3396.2	3379.0	3269.7	3108.8	3028.0	2684.5
17.5°	3217.5	3228.3	3271.6	3344.7	3445.8	3548.9	3594.0	3502.4	3340.3	3248.0	2813.6
20°	3234.0	3242.3	3296.4	3382.2	3513.2	3677.3	3803.3	3780.4	3595.3	3475.7	2948.5
22.5°	3270.9	3277.9	3329.4	3415.9	3560.9	3772.7	4004.9	4039.2	3864.3	3728.8	3092.9
25°	3374.0	3374.0	3417.2	3477.6	3613.7	3855.4	4175.3	4327.3	4139.1	3981.3	3226.4
27.5°	3570.5	3568.6	3584.5	3605.5	3708.5	3939.4	4327.3	4581.7	4424.0	4251.6	3356.2
30°	3803.3	3816.0	3817.9	3807.7	3856.0	4044.3	4467.9	4850.1	4710.8	4525.1	3489.1
32.5°	4102.8	4111.1	4101.5	4067.8	4060.8	4193.1	4605.9	5131.2	5021.2	4810.7	3610.6
35°	4483.1	4467.2	4437.3	4368.7	4303.2	4392.2	4763.6	5412.3	5369.7	5156.0	3777.8
37.5°	4890.8	4891.4	4854.6	4698.7	4608.4	4646.6	4981.1	5731.0	5791.4	5566.9	3992.1
40°	5217.7	5234.9	5257.8	5053.0	4936.0	4988.8	5257.8	6100.5	6290.0	6054.0	4271.4
42.5°	5446.0	5465.8	5530.6	5402.2	5280.7	5378.6	5583.4	6494.8	6849.7	6616.3	4598.3
45°	5687.7	5698.5	5744.3	5689.0	5611.4	5832.1	5950.4	6903.1	7441.8	7215.4	4964.0
47.5°	5942.1	5953.6	6000.6	5963.7	5923.0	6255.7	6333.3	7287.9	8009.1	7873.6	5354.5
50°	6256.3	6263.9	6308.4	6241.7	6254.4	6574.9	6675.4	7640.9	8603.8	8465.1	5746.2
52.5°	6685.0	6686.9	6748.6	6688.1	6628.4	6809.0	6969.9	7973.5	9069.9	9004.4	6138.0
55°	7020.8	7041.1	7243.4	7230.6	7196.3	7021.4	7216.0	8290.2	9485.9	9517.0	6553.9
57.5°	6806.4	6885.9	7295.5	7584.3	7865.4	7549.9	7548.6	8647.0	9872.6	10020.1	7011.2
60°	5961.2	6069.3	6672.9	7313.3	8192.9	8469.6	8239.3	9082.7	10263.1	10518.7	7584.3
62.5°	4257.4	4435.4	5253.3	6276.0	7743.9	9078.8	9644.9	9774.0	10794.1	11096.2	8329.0
65°	2152.2	2287.0	2972.6	4204.6	6187.0	8680.7	11172.5	11287.7	11717.0	11985.4	9475.7
67.5°	1307.6	1358.5	1693.0	2338.6	3793.1	6761.9	11671.2	13810.7	13502.8	13645.3	11110.9
70°	963.5	1001.1	1209.7	1553.1	2181.5	3968.0	10141.0	15611.2	15408.9	15393.0	12319.2
72°	750.5	777.8	962.3	1254.8	1595.1	2380.5	7350.2	14946.5	15954.6	15874.5	12208.6
72.5°	711.7	735.8	903.8	1181.0	1507.3	2157.9	6608.6	14498.2	15915.2	15878.9	12065.5
75°	560.3	577.5	669.1	913.3	1179.8	1224.3	3621.4	11235.5	14118.5	14705.5	10852.0
77.5°	463.6	466.2	514.5	664.6	919.7	865.6	1778.9	7795.4	10109.8	10755.3	7687.3
80°	377.8	381.0	403.9	466.2	695.8	640.4	844.6	4482.5	5660.4	5667.4	3655.7
82.5°	300.8	301.5	326.9	340.9	499.9	457.9	484.0	2104.5	2473.4	2379.3	1314.0
85°	211.8	207.3	319.3	279.8	326.9	293.8	267.1	833.2	1022.7	978.2	411.5
87.5°	70.6	73.1	141.8	181.3	190.8	166.6	118.9	319.3	386.0	382.9	130.4
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°	2272.4	2272.4	2272.4	2272.4	2272.4	2272.4	2272.4	2272.4	2272.4	2272.4	2272.4
2.5°	2283.9	2263.5	2233.6	2200.5	2174.5	2147.8	2128.0	2117.9	2106.4	2096.9	2108.3
5°	2308.0	2269.9	2206.3	2143.9	2098.2	2057.4	2028.2	2012.9	1998.9	1989.4	1990.7
7.5°	2347.5	2285.8	2178.9	2088.0	2024.4	1980.5	1950.6	1940.4	1931.5	1929.0	1932.2
10°	2389.4	2298.5	2142.7	2021.8	1949.3	1913.1	1899.7	1906.7	1913.1	1918.8	1925.2
12.5°	2437.1	2309.9	2089.9	1944.2	1882.5	1868.6	1881.9	1912.4	1934.7	1948.1	1956.3
15°	2499.5	2320.1	2028.8	1866.6	1825.3	1841.2	1886.4	1939.2	1977.9	2002.8	2006.6
17.5°	2556.7	2319.5	1950.6	1788.4	1778.9	1825.3	1893.4	1967.8	2019.9	2054.9	2061.9
20°	2615.9	2302.3	1859.7	1712.1	1731.8	1808.1	1896.5	1986.2	2049.2	2089.9	2099.4
22.5°	2671.2	2272.4	1759.8	1642.8	1692.4	1785.2	1884.5	1975.4	2038.4	2071.4	2081.6
25°	2708.7	2220.3	1658.7	1584.3	1657.4	1757.3	1845.0	1918.2	1965.2	1981.8	1984.3
27.5°	2727.8	2152.2	1563.3	1533.4	1621.2	1711.5	1771.9	1808.1	1821.5	1820.2	1817.7
30°	2730.3	2062.5	1481.2	1492.0	1579.2	1644.1	1672.7	1665.7	1648.5	1619.2	1621.8
32.5°	2722.1	1961.4	1412.5	1452.6	1525.8	1562.0	1563.3	1529.6	1483.8	1437.4	1424.6
35°	2724.6	1862.2	1352.1	1408.1	1460.9	1476.8	1462.2	1412.5	1350.2	1290.4	1277.7
37.5°	2752.6	1775.7	1300.0	1356.6	1389.0	1392.8	1371.8	1319.7	1273.9	1215.4	1210.3
40°	2819.4	1714.0	1250.4	1298.7	1317.1	1319.1	1289.2	1252.3	1256.1	1224.9	1224.3
42.5°	2939.6	1687.3	1206.5	1238.3	1249.7	1253.5	1230.7	1207.1	1240.2	1219.8	1212.8
45°	3094.8	1693.7	1169.6	1179.1	1200.1	1217.9	1203.9	1175.3	1188.0	1099.6	1070.4
47.5°	3274.1	1734.4	1140.3	1128.3	1164.5	1198.2	1176.6	1133.3	1088.2	1000.4	983.9
50°	3484.0	1797.3	1113.6	1078.0	1125.7	1171.5	1149.9	1088.2	1020.1	977.5	971.8
52.5°	3702.8	1874.3	1086.9	1022.7	1076.7	1151.2	1140.3	1078.0	994.1	952.1	944.5
55°	3950.8	1951.9	1053.2	958.4	1024.0	1141.6	1135.9	1041.1	974.3	950.8	945.1
57.5°	4259.3	2040.3	1008.7	891.7	974.3	1107.3	1089.5	1018.9	954.0	936.2	934.3
60°	4661.2	2170.7	944.5	820.4	913.9	1054.5	1050.7	986.4	921.6	908.8	906.3
62.5°	5264.1	2386.3	856.1	749.2	846.5	964.8	999.8	942.5	887.2	886.6	887.9
65°	6199.1	2710.6	760.0	686.9	778.5	889.1	940.6	897.4	852.2	865.0	866.9
67.5°	7282.8	2979.6	665.9	625.8	709.1	817.3	887.2	852.2	805.8	838.9	839.5
70°	7643.4	2739.2	583.2	565.4	637.3	747.9	829.3	802.6	755.6	788.6	785.5
72°	7113.0	2211.4	529.8	519.6	583.2	690.7	777.8	756.2	709.8	732.0	723.8
72.5°	6945.7	2108.3	516.4	508.2	568.6	676.1	764.5	744.8	698.3	717.4	709.8
75°	6195.9	1831.0	443.9	445.8	496.1	604.8	689.4	683.1	635.4	637.3	634.7
77.5°	4494.0	1342.6	374.0	386.7	422.3	531.7	613.7	609.9	557.8	548.2	546.3
80°	2085.4	685.0	304.6	310.4	347.3	444.6	523.4	518.3	476.4	464.3	457.3
82.5°	714.2	325.6	229.0	232.8	269.0	358.1	454.1	450.9	415.9	392.4	377.8
85°	255.0	162.2	160.3	156.5	192.1	281.7	395.6	378.4	326.9	278.6	277.3
87.5°	82.7	69.3	82.7	82.0	111.9	190.8	287.5	244.9	237.2	197.2	193.3
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)