

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: P317876

Luminaire Tested: **GAN-SA2B-827-U-T3R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317876
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-10)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA2B-827-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8788 lumens
Efficiency: N/A
Efficacy: 103.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G2

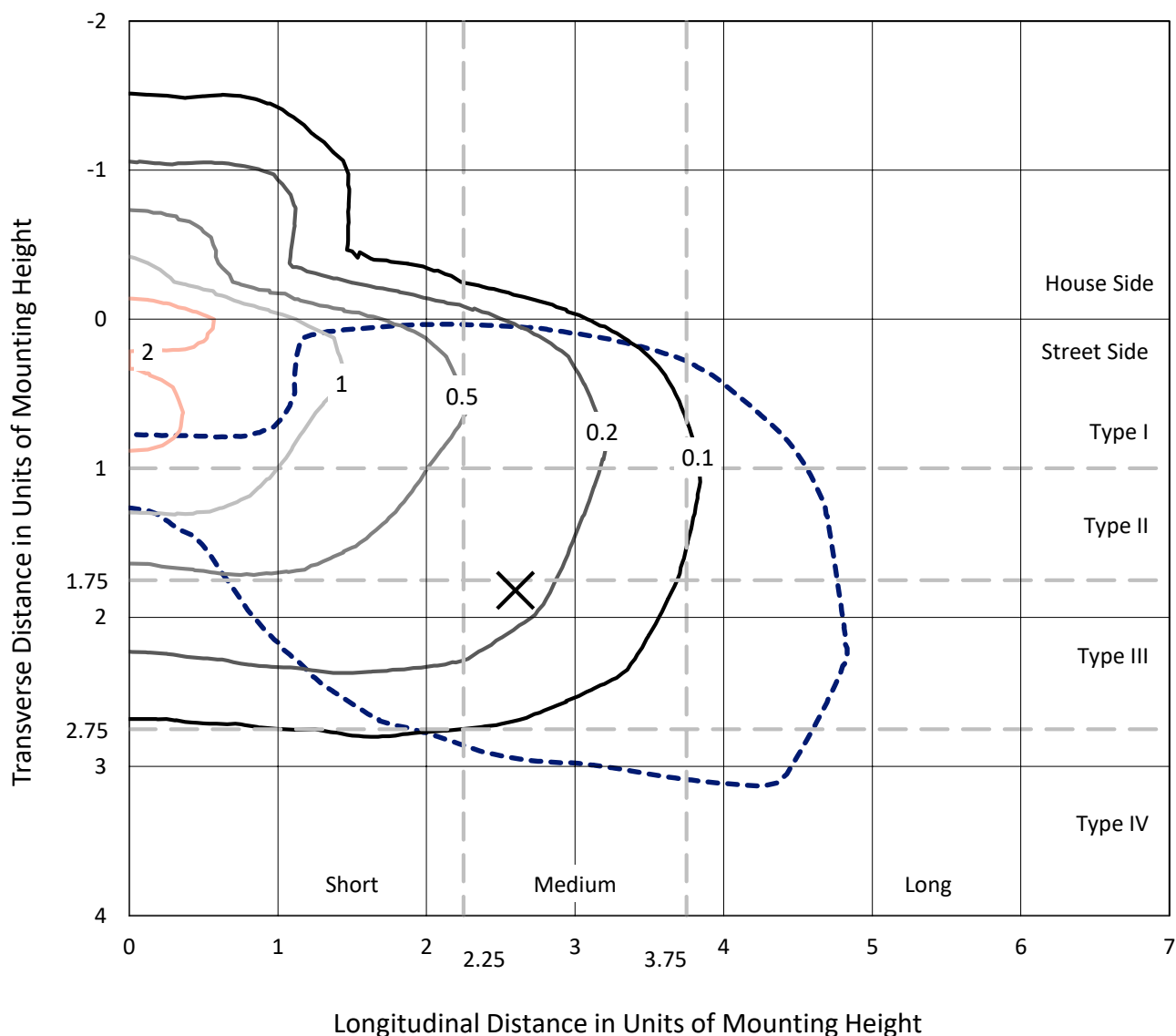
Input Watts (W): 85
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

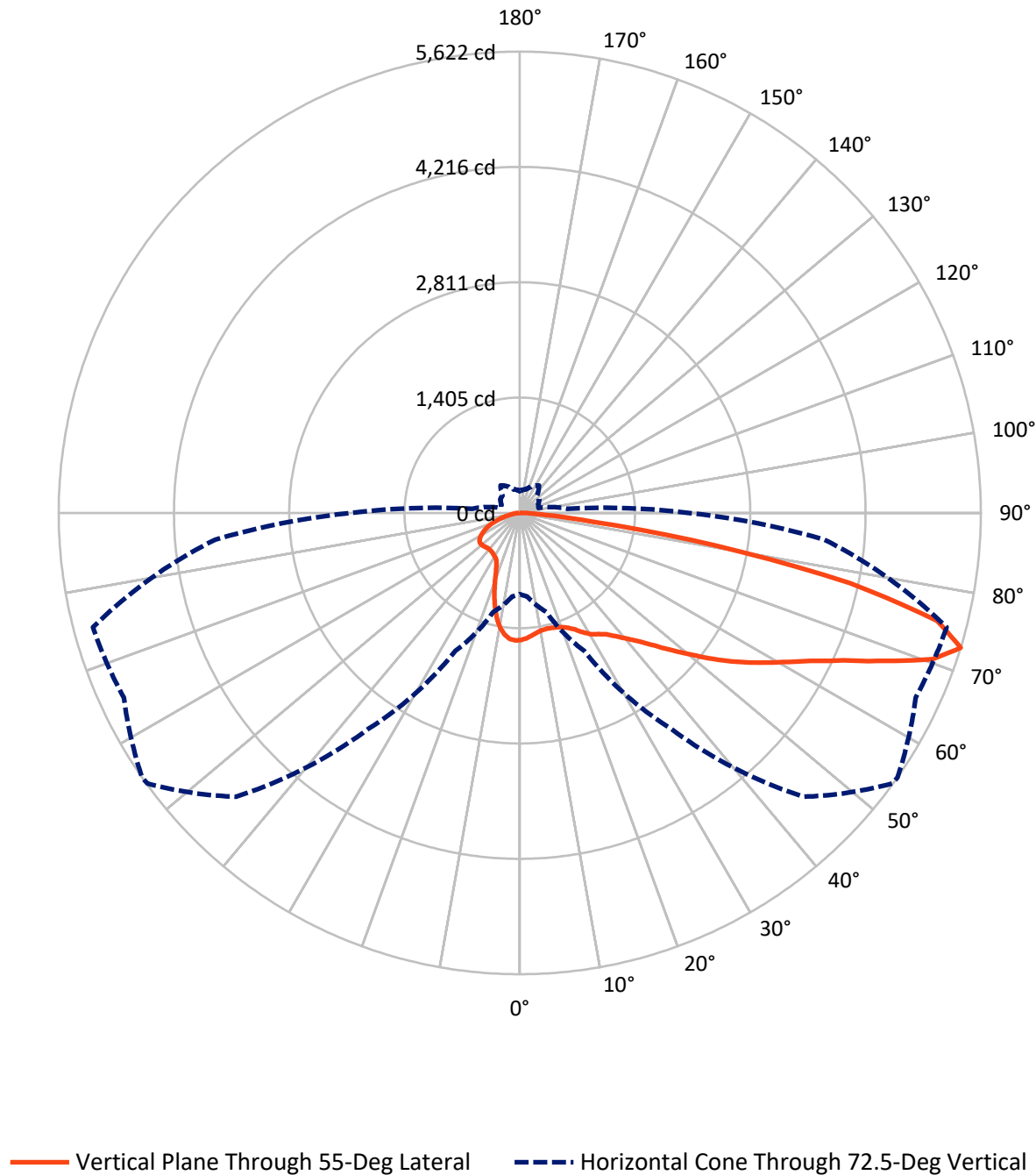
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1633.4	0.0	1633.4
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	7154.6	0.0	7154.6
	% Fixture	81.4	0.0	81.4
Total	Lumens	8788.0	0.0	8788.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.3	1.6
10°-20°	373.4	4.2
20°-30°	615.7	7.0
30°-40°	910.7	10.4
40°-50°	1271.2	14.5
50°-60°	1655.1	18.8
60°-70°	2034.1	23.1
70°-80°	1594.5	18.1
80°-90°	193.0	2.2
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°	8788.0	100.0
0°-180°	8788.0	100.0

Coefficient of Utilization



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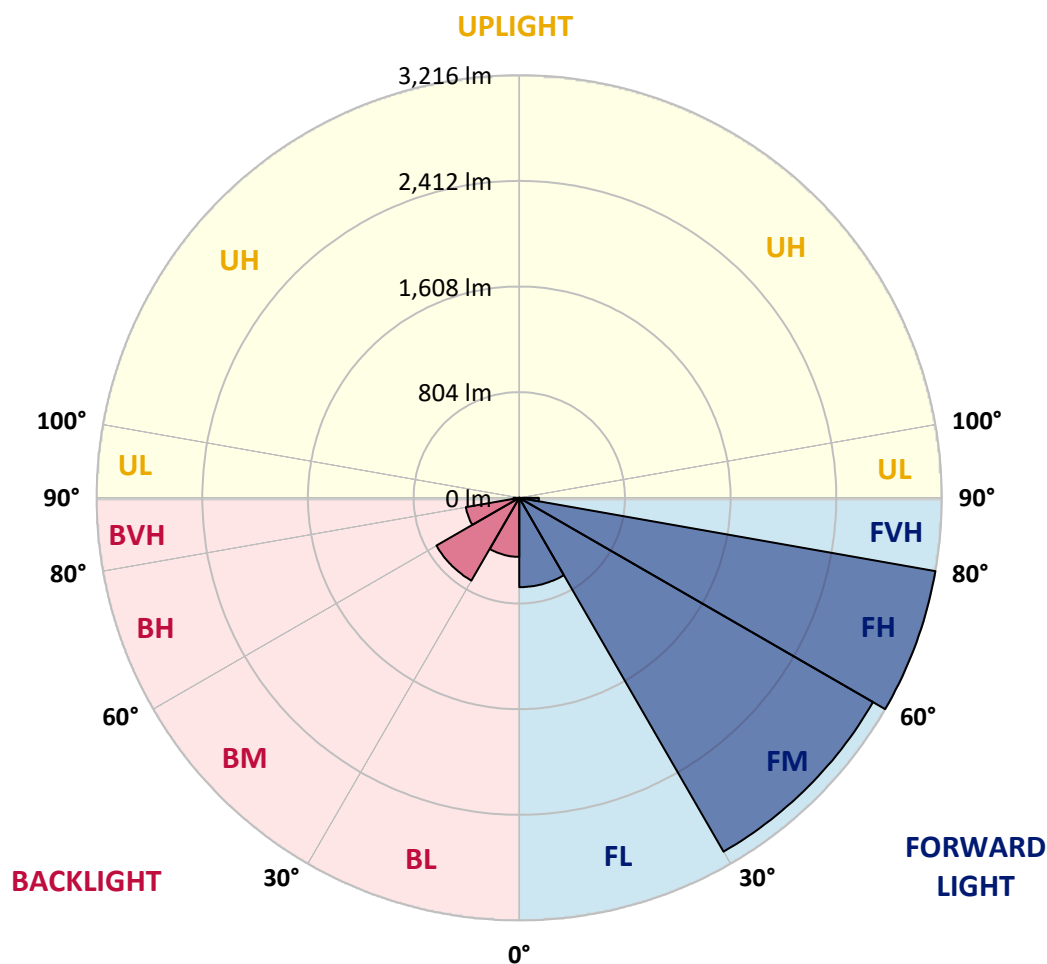
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	679.9	7.7			
FM	(30°-60°)	3109.4	35.4			
FH	(60°-80°)	3216.1	36.6			G2/5000
FVH	(80°-90°)	149.2	1.7			G2/225
BL	(0°-30°)	449.4	5.1	B1/500		
BM	(30°-60°)	727.7	8.3	B1/1000		
BH	(60°-80°)	412.5	4.7	B1/500		G1/500
BVH	(80°-90°)	43.8	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	1550.0	1550.0	1550.0	1550.0	1550.0	1550.0	1550.0	1550.0	1550.0	1550.0	1550.0
2.5°	1499.6	1496.0	1500.4	1506.7	1513.5	1522.7	1528.0	1530.4	1539.6	1543.2	1550.9
5°	1430.1	1428.3	1435.7	1446.4	1461.6	1482.9	1500.1	1503.4	1527.8	1545.0	1560.7
7.5°	1379.6	1379.6	1388.2	1401.0	1417.9	1446.7	1471.1	1475.5	1516.8	1553.9	1583.0
10°	1339.6	1341.1	1351.1	1366.3	1386.2	1416.7	1449.1	1454.1	1513.8	1574.7	1621.0
12.5°	1312.9	1316.4	1325.6	1339.3	1363.9	1401.0	1442.0	1448.8	1520.0	1604.3	1666.7
15°	1329.8	1335.7	1336.6	1342.2	1355.9	1396.3	1446.1	1453.2	1533.4	1634.6	1718.6
17.5°	1404.0	1406.1	1396.9	1385.0	1378.4	1404.3	1458.6	1466.0	1549.4	1664.6	1768.5
20°	1516.8	1515.6	1495.7	1463.6	1430.4	1434.5	1479.1	1486.8	1571.1	1691.0	1818.3
22.5°	1659.2	1655.1	1624.5	1565.4	1508.8	1485.0	1515.0	1521.5	1603.7	1728.7	1871.8
25°	1832.0	1822.8	1782.4	1703.2	1619.8	1558.6	1569.0	1575.2	1651.2	1770.9	1920.7
27.5°	2014.2	2005.0	1953.7	1857.8	1746.8	1651.5	1643.5	1648.9	1705.3	1802.0	1957.0
30°	2204.8	2195.0	2148.1	2040.7	1881.6	1747.7	1713.0	1715.0	1743.2	1818.9	1986.6
32.5°	2396.3	2387.1	2334.5	2209.9	2027.9	1851.0	1763.1	1760.5	1766.1	1836.4	2020.2
35°	2590.4	2593.9	2532.5	2394.5	2190.0	1965.9	1822.5	1816.9	1804.4	1872.4	2067.7
37.5°	2798.2	2795.8	2716.2	2572.0	2359.5	2090.5	1907.7	1906.8	1863.8	1940.3	2142.2
40°	2937.1	2938.6	2890.2	2753.6	2530.7	2228.6	2016.9	2014.8	1958.4	2042.1	2239.8
42.5°	2991.4	3001.2	3013.7	2927.0	2710.0	2388.5	2147.2	2144.3	2090.5	2188.2	2354.7
45°	2995.2	3014.8	3092.0	3081.0	2891.7	2571.7	2313.7	2305.4	2266.8	2382.3	2491.8
47.5°	2962.0	2982.2	3110.4	3172.8	3054.0	2764.9	2508.5	2501.9	2468.7	2625.1	2640.2
50°	2889.3	2908.6	3072.4	3217.6	3187.6	2950.7	2732.9	2715.6	2697.8	2905.6	2810.0
52.5°	2753.0	2790.1	3021.7	3228.3	3267.4	3115.8	2968.8	2957.6	2967.3	3201.5	2980.1
55°	2430.4	2471.9	2890.8	3219.4	3326.5	3254.4	3204.8	3204.2	3255.0	3512.0	3162.7
57.5°	2249.6	2279.0	2624.2	3204.2	3396.6	3392.1	3438.4	3444.0	3542.9	3850.1	3353.8
60°	2147.5	2178.4	2489.2	3148.1	3505.2	3570.2	3676.8	3688.0	3835.6	4224.4	3583.9
62.5°	2054.6	2088.5	2405.5	3033.8	3633.1	3824.9	3962.3	3972.4	4145.4	4609.1	3806.2
65°	1895.8	1934.1	2282.9	2958.7	3749.5	4157.0	4325.3	4332.1	4501.3	5012.2	3976.3
67.5°	1671.4	1706.4	2051.6	2792.8	3835.6	4560.4	4808.0	4811.8	4854.3	5296.8	4063.2
70°	1409.3	1422.7	1722.2	2450.3	3733.7	4937.7	5336.9	5337.8	5176.0	5479.1	4049.0
72.5°	990.2	1021.7	1250.2	1854.9	3208.7	4891.7	5611.5	5621.5	5325.6	5387.1	3725.4
75°	607.3	640.5	784.2	1124.1	2035.6	3847.1	5184.6	5254.7	5045.1	4803.2	3043.3
77.5°	406.1	418.5	511.7	655.4	922.2	2213.4	3986.0	4117.8	4191.2	3502.8	1946.3
80°	226.5	250.2	339.3	407.2	410.2	879.5	2390.0	2420.9	2331.8	1394.8	600.5
82.5°	119.9	133.0	226.5	239.2	223.8	294.4	890.8	891.7	745.0	374.0	178.4
85°	92.9	103.9	155.2	146.0	114.3	130.6	293.9	309.9	253.5	153.2	58.2
87.5°	46.3	57.6	105.4	92.6	44.8	37.4	105.1	112.2	100.0	60.0	21.1
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°	1550.0	1550.0	1550.0	1550.0	1550.0	1550.0	1550.0	1550.0	1550.0	1550.0	1550.0
2.5°	1553.9	1556.5	1559.8	1556.2	1555.1	1550.3	1542.3	1540.5	1536.4	1536.7	1539.0
5°	1567.5	1572.0	1570.2	1556.5	1540.2	1517.4	1493.6	1473.4	1460.1	1459.2	1458.3
7.5°	1593.6	1596.6	1582.7	1543.8	1498.1	1445.2	1395.4	1351.7	1325.3	1318.8	1317.3
10°	1634.6	1634.0	1595.7	1517.4	1426.2	1331.8	1251.7	1191.2	1155.8	1145.4	1142.8
12.5°	1680.3	1673.5	1600.2	1469.3	1324.7	1193.8	1092.3	1024.9	988.1	976.3	973.3
15°	1727.5	1710.6	1589.2	1397.4	1200.1	1045.1	938.6	876.2	856.3	849.8	848.6
17.5°	1771.4	1738.8	1557.7	1300.1	1057.9	897.0	813.9	789.0	793.7	802.3	802.6
20°	1814.5	1757.8	1507.3	1177.2	908.0	775.0	746.8	765.2	787.8	805.3	807.7
22.5°	1856.9	1771.1	1442.3	1035.3	773.8	706.4	726.3	759.9	785.7	804.7	808.0
25°	1892.5	1774.4	1352.6	883.9	680.6	680.6	716.5	748.3	773.8	792.5	795.8
27.5°	1905.6	1752.4	1226.2	743.8	633.7	668.7	702.9	729.3	751.0	770.9	774.4
30°	1910.7	1711.8	1080.1	631.3	614.4	656.0	684.5	707.0	727.5	746.2	749.5
32.5°	1911.5	1662.8	925.2	567.5	601.1	642.6	661.6	681.5	703.5	710.9	712.1
35°	1917.2	1604.9	761.9	534.9	588.6	630.2	645.3	659.5	623.9	626.6	629.0
37.5°	1933.5	1547.6	625.4	516.5	580.6	623.6	641.7	590.1	562.2	555.7	554.8
40°	1964.1	1486.5	524.2	501.6	577.6	626.9	618.9	550.9	502.8	466.9	461.6
42.5°	2006.5	1420.6	459.5	491.8	579.7	642.6	587.1	513.2	433.4	410.2	407.2
45°	2054.3	1351.4	424.5	485.0	586.8	654.8	580.6	463.0	401.0	383.5	382.0
47.5°	2100.6	1266.8	406.4	482.0	596.6	645.0	553.0	447.6	385.6	376.4	377.3
50°	2153.8	1190.6	395.4	478.8	605.2	638.8	521.8	439.6	379.6	390.9	402.8
52.5°	2198.6	1111.6	385.6	472.2	608.5	627.8	513.8	441.1	379.6	401.3	412.6
55°	2251.7	1051.9	374.3	458.6	602.3	596.6	508.2	450.0	384.1	370.4	371.6
57.5°	2320.3	1032.4	361.8	437.2	581.5	551.2	505.5	458.6	381.4	372.8	375.8
60°	2415.3	1053.1	356.8	409.3	549.1	515.6	505.8	454.1	362.7	347.9	348.2
62.5°	2505.8	1076.3	356.5	391.8	509.3	483.8	499.0	439.6	353.2	344.6	347.9
65°	2535.5	1052.8	342.2	372.2	464.5	445.8	486.5	424.2	346.1	333.0	332.4
67.5°	2495.7	980.1	313.4	340.5	413.2	401.6	470.2	405.8	334.8	324.1	322.4
70°	2377.6	817.7	277.8	298.6	354.7	351.7	444.3	384.4	319.7	310.5	302.8
72.5°	2059.7	582.7	234.2	248.4	288.8	298.3	408.7	356.5	298.3	278.4	266.5
75°	1691.6	431.3	192.3	195.3	219.4	245.2	359.8	323.8	273.1	239.2	230.0
77.5°	1035.9	263.9	153.2	154.3	157.3	195.6	296.2	287.3	241.0	199.5	192.9
80°	335.4	144.0	110.7	116.4	107.5	143.4	229.1	244.6	206.9	166.8	159.7
82.5°	127.6	84.0	74.8	78.7	74.5	96.2	167.1	195.9	169.5	137.1	111.6
85°	61.7	47.5	44.2	49.6	46.0	49.3	106.9	144.3	128.5	89.3	83.1
87.5°	22.0	21.1	16.9	22.9	19.6	17.5	32.7	72.7	84.9	61.4	54.9
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)