

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: P233953

Luminaire Tested: **VERD-G-C028-D-U-T4-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P233953  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1710-389-34)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: VERD-G-C028-D-U-T4-HSS  
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 4000K, 885mA LEDS AND TYPE IV OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11942 lumens  
Efficiency: N/A  
Efficacy: 115.9 lumens/watt  
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B2 - U0 - G3

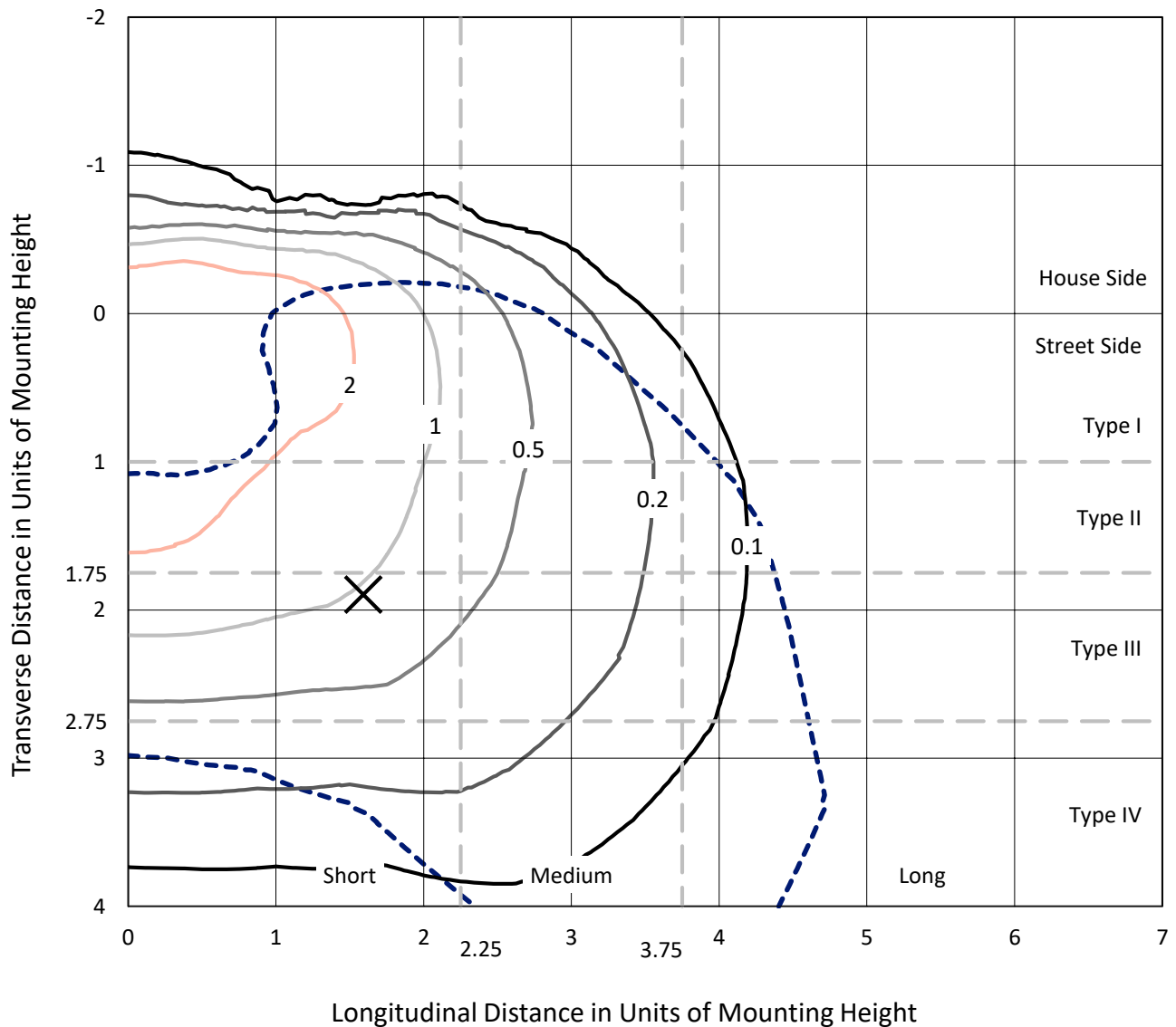
Input Watts (W): 103  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

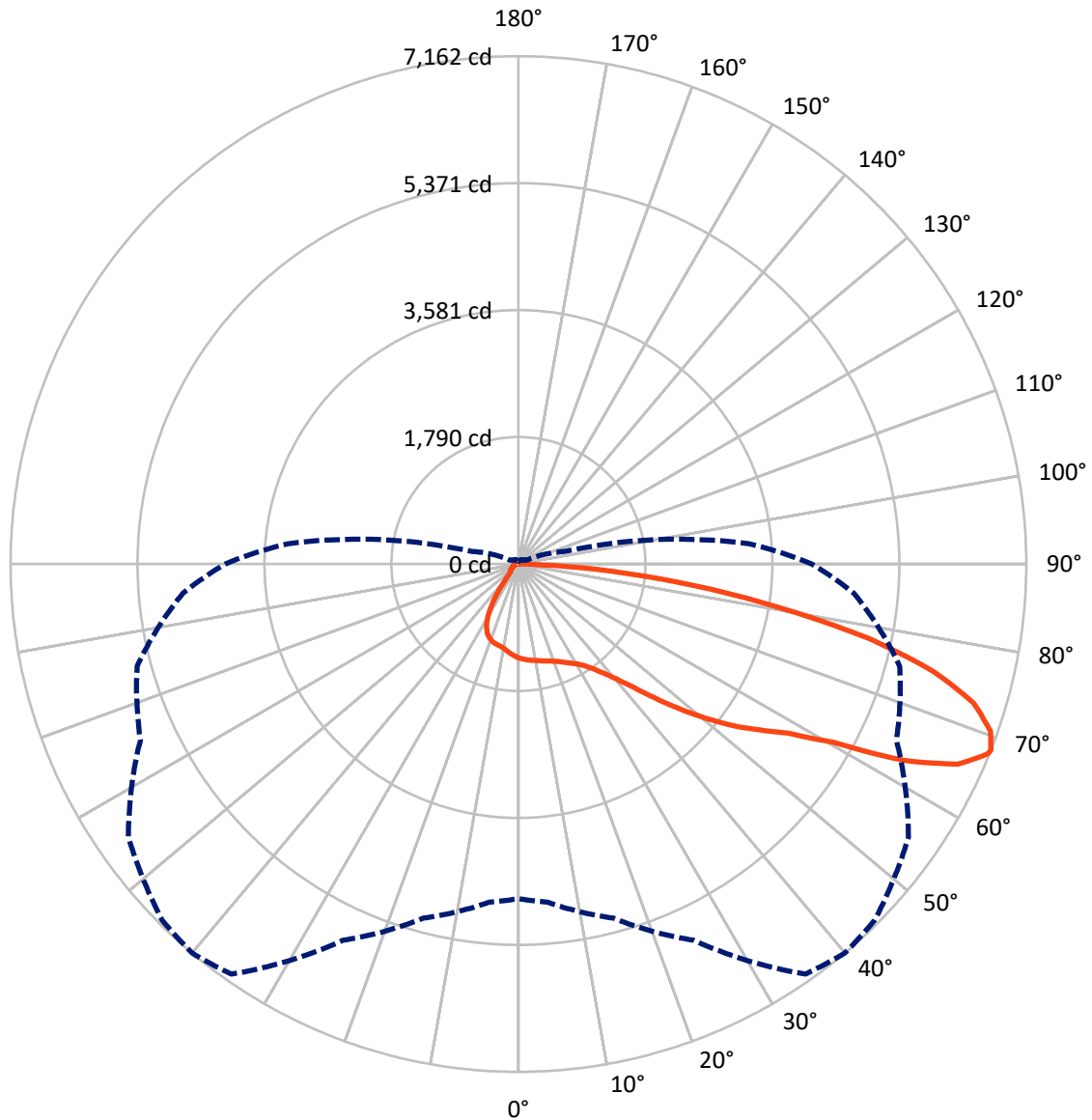


Based on 20 foot mounting height. Maximum calculated value = 3.6 fc  
 Type IV - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral    - - - Horizontal Cone Through 68-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1937.2	0.0	1937.2
	% Fixture	16.2	0.0	16.2
<b>Street Side</b>	Lumens	10004.8	0.0	10004.8
	% Fixture	83.8	0.0	83.8
<b>Total</b>	Lumens	11942.0	0.0	11942.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	125.9	1.1
10°-20°	377.1	3.2
20°-30°	632.9	5.3
30°-40°	937.3	7.8
40°-50°	1585.6	13.3
50°-60°	2419.9	20.3
60°-70°	3168.5	26.5
70°-80°	2278.0	19.1
80°-90°	417.0	3.5
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°	11942.0	100.0
0°-180°	11942.0	100.0



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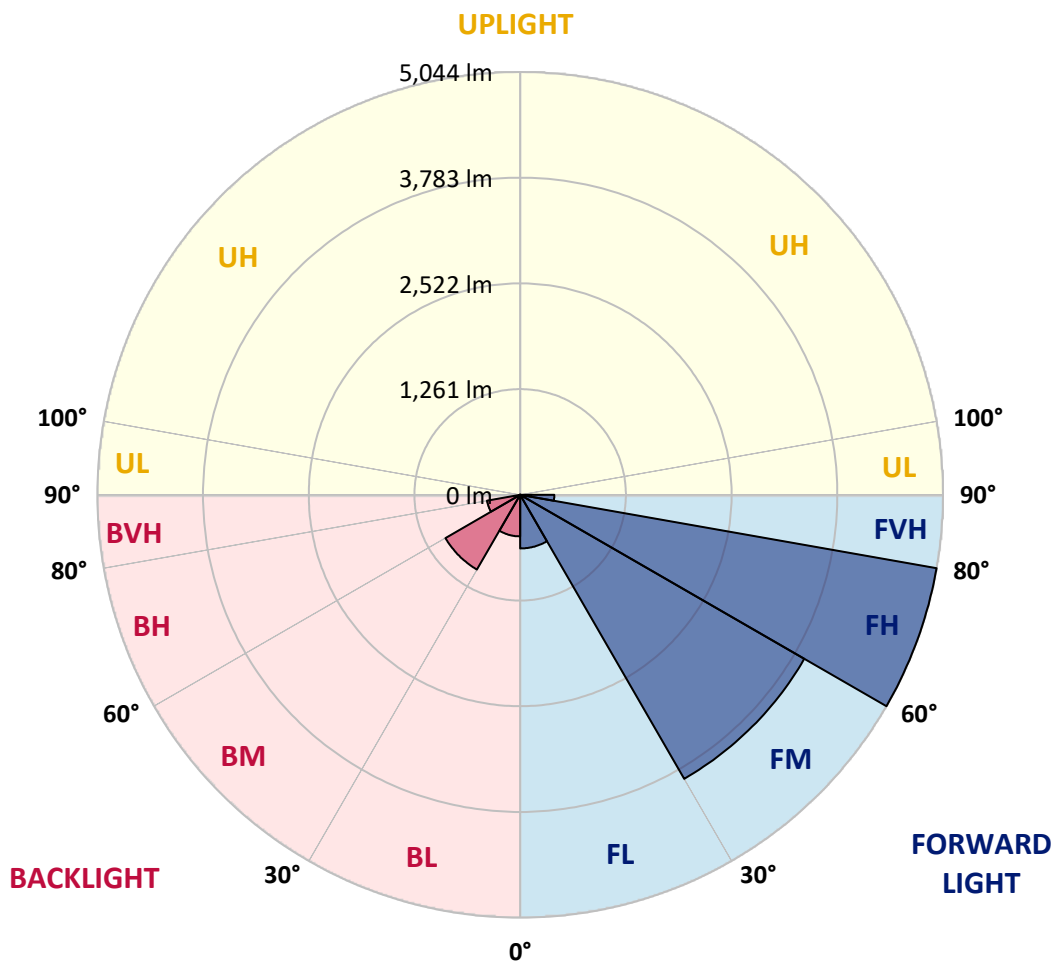
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	640.2	5.4			
FM (30°-60°)	3913.0	32.8			
FH (60°-80°)	5044.5	42.2			G3/7500
FVH (80°-90°)	407.1	3.4			G3/500
BL (0°-30°)	495.6	4.2	B1/500		
BM (30°-60°)	1029.7	8.6	B2/2500		
BH (60°-80°)	402.0	3.4	B1/500		G1/500
BVH (80°-90°)	9.9	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G3**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	1327.0	1327.0	1327.0	1327.0	1327.0	1327.0	1327.0	1327.0	1327.0	1327.0	1327.0
2.5°	1369.0	1372.0	1368.0	1358.0	1347.0	1341.0	1340.0	1339.0	1334.0	1327.0	1317.0
5°	1383.0	1384.0	1380.0	1372.0	1362.0	1360.0	1357.0	1358.0	1355.0	1348.0	1337.0
7.5°	1389.0	1391.0	1386.0	1378.0	1370.0	1370.0	1369.0	1372.0	1370.0	1367.0	1354.0
10°	1387.0	1390.0	1387.0	1384.0	1381.0	1384.0	1382.0	1389.0	1390.0	1390.0	1375.0
12.5°	1384.0	1388.0	1389.0	1392.0	1397.0	1400.0	1404.0	1419.0	1426.0	1431.0	1419.0
15°	1387.0	1389.0	1397.0	1402.0	1412.0	1419.0	1428.0	1453.0	1465.0	1479.0	1473.0
17.5°	1400.0	1405.0	1417.0	1422.0	1432.0	1437.0	1448.0	1479.0	1503.0	1528.0	1532.0
20°	1428.0	1431.0	1451.0	1453.0	1458.0	1463.0	1475.0	1509.0	1545.0	1581.0	1591.0
22.5°	1459.0	1466.0	1485.0	1482.0	1492.0	1494.0	1505.0	1542.0	1592.0	1636.0	1658.0
25°	1491.0	1497.0	1516.0	1518.0	1530.0	1538.0	1551.0	1587.0	1651.0	1707.0	1746.0
27.5°	1518.0	1530.0	1548.0	1550.0	1573.0	1583.0	1602.0	1643.0	1720.0	1789.0	1853.0
30°	1568.0	1571.0	1588.0	1594.0	1625.0	1634.0	1656.0	1708.0	1802.0	1888.0	1988.0
32.5°	1630.0	1629.0	1645.0	1655.0	1693.0	1709.0	1737.0	1797.0	1901.0	2008.0	2150.0
35°	1744.0	1734.0	1744.0	1754.0	1798.0	1815.0	1845.0	1935.0	2057.0	2239.0	2414.0
37.5°	2006.0	1991.0	1970.0	1920.0	1931.0	1953.0	1997.0	2119.0	2299.0	2637.0	2806.0
40°	2460.0	2427.0	2339.0	2207.0	2129.0	2131.0	2172.0	2332.0	2596.0	3093.0	3220.0
42.5°	2871.0	2848.0	2742.0	2561.0	2381.0	2371.0	2385.0	2572.0	2920.0	3516.0	3582.0
45°	3258.0	3269.0	3115.0	2973.0	2758.0	2692.0	2675.0	2828.0	3279.0	3893.0	3899.0
47.5°	3616.0	3634.0	3448.0	3314.0	3102.0	3045.0	2992.0	3097.0	3618.0	4214.0	4165.0
50°	4001.0	4015.0	3757.0	3647.0	3469.0	3416.0	3376.0	3422.0	3965.0	4512.0	4402.0
52.5°	4533.0	4455.0	4131.0	3949.0	3791.0	3787.0	3756.0	3785.0	4360.0	4780.0	4582.0
55°	5160.9	4957.0	4613.0	4322.0	4119.0	4130.0	4093.0	4141.0	4751.0	5010.0	4749.0
57.5°	5382.9	5377.9	5217.9	4939.0	4527.0	4502.0	4438.0	4492.0	5088.9	5224.9	4867.0
60°	5690.9	5717.9	5735.9	5567.9	5329.9	5102.9	4889.0	4884.0	5403.9	5420.9	4925.0
62.5°	5889.9	5914.9	6054.9	6032.9	6179.9	6104.9	5860.9	5319.9	5644.9	5547.9	4947.0
65°	5517.9	5579.9	5932.9	6201.9	6702.9	6807.9	6772.9	5989.9	5808.9	5584.9	4906.0
67.5°	4845.0	4926.0	5312.9	5941.9	7026.9	7143.9	7079.9	6664.9	5879.9	5568.9	4793.0
68°	4719.0	4789.0	5168.9	5854.9	7059.9	7161.9	7103.9	6714.9	5882.9	5566.9	4750.0
70°	4113.0	4170.0	4541.0	5408.9	6967.9	7062.9	7054.9	6761.9	5856.9	5504.9	4461.0
72.5°	3191.0	3248.0	3577.0	4486.0	6542.9	6716.9	6709.9	6573.9	5808.9	5188.9	3740.0
75°	2307.0	2370.0	2670.0	3447.0	5661.9	6044.9	6121.9	6251.9	5309.9	4367.0	2661.0
77.5°	1666.0	1712.0	1971.0	2604.0	4625.0	5063.0	5218.9	5349.9	4346.0	3183.0	1266.0
80°	1111.0	1144.0	1394.0	1936.0	3484.0	3742.0	3910.0	3691.0	2473.0	1151.0	137.0
82.5°	684.0	705.0	902.0	1358.0	2410.0	2491.0	2492.0	1969.0	797.0	110.0	74.0
85°	367.0	374.0	490.0	741.0	1273.0	1334.0	1310.0	827.0	161.0	59.0	40.0
87.5°	59.0	64.0	154.0	278.0	393.0	303.0	194.0	61.0	16.0	9.0	6.0
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°	1327.0	1327.0	1327.0	1327.0	1327.0	1327.0	1327.0	1327.0	1327.0	1327.0	1327.0
2.5°	1322.0	1319.0	1311.0	1307.0	1297.0	1300.0	1300.0	1292.0	1296.0	1312.0	1310.0
5°	1334.0	1335.0	1316.0	1306.0	1284.0	1278.0	1269.0	1257.0	1256.0	1267.0	1268.0
7.5°	1344.0	1349.0	1322.0	1302.0	1272.0	1251.0	1233.0	1212.0	1207.0	1214.0	1214.0
10°	1360.0	1365.0	1331.0	1303.0	1259.0	1225.0	1194.0	1167.0	1156.0	1156.0	1157.0
12.5°	1402.0	1399.0	1360.0	1317.0	1265.0	1211.0	1162.0	1126.0	1100.0	1099.0	1095.0
15°	1460.0	1449.0	1411.0	1346.0	1279.0	1210.0	1142.0	1086.0	1041.0	1029.0	1024.0
17.5°	1522.0	1508.0	1462.0	1383.0	1301.0	1209.0	1119.0	1041.0	966.0	937.0	928.0
20°	1589.0	1572.0	1525.0	1426.0	1323.0	1202.0	1085.0	976.0	874.0	819.0	805.0
22.5°	1663.0	1649.0	1592.0	1470.0	1338.0	1187.0	1032.0	894.0	764.0	685.0	679.0
25°	1759.0	1746.0	1662.0	1509.0	1339.0	1159.0	962.0	789.0	626.0	533.0	514.0
27.5°	1874.0	1851.0	1718.0	1533.0	1323.0	1110.0	871.0	649.0	465.0	387.0	385.0
30°	1999.0	1957.0	1763.0	1539.0	1287.0	1032.0	746.0	477.0	330.0	277.0	277.0
32.5°	2146.0	2069.0	1809.0	1529.0	1228.0	924.0	571.0	331.0	227.0	202.0	202.0
35°	2361.0	2242.0	1868.0	1504.0	1145.0	775.0	406.0	219.0	179.0	176.0	176.0
37.5°	2701.0	2503.0	1948.0	1462.0	1031.0	591.0	264.0	169.0	171.0	171.0	170.0
40°	3063.0	2805.0	2058.0	1395.0	888.0	408.0	173.0	160.0	163.0	165.0	164.0
42.5°	3390.0	3092.0	2178.0	1305.0	719.0	257.0	158.0	154.0	152.0	154.0	155.0
45°	3673.0	3341.0	2299.0	1188.0	531.0	168.0	154.0	145.0	139.0	140.0	141.0
47.5°	3915.0	3537.0	2381.0	1065.0	352.0	149.0	149.0	133.0	127.0	127.0	127.0
50°	4127.0	3711.0	2431.0	918.0	210.0	147.0	140.0	122.0	116.0	115.0	116.0
52.5°	4281.0	3833.0	2425.0	739.0	141.0	142.0	128.0	112.0	105.0	107.0	108.0
55°	4403.0	3910.0	2372.0	541.0	132.0	133.0	119.0	101.0	96.0	97.0	97.0
57.5°	4480.0	3929.0	2264.0	352.0	129.0	119.0	107.0	90.0	84.0	84.0	84.0
60°	4505.0	3919.0	2117.0	225.0	128.0	107.0	97.0	81.0	75.0	75.0	75.0
62.5°	4484.0	3861.0	1868.0	162.0	119.0	100.0	88.0	72.0	66.0	64.0	64.0
65°	4409.0	3706.0	1440.0	134.0	107.0	92.0	80.0	65.0	57.0	54.0	53.0
67.5°	4190.0	3370.0	838.0	126.0	97.0	84.0	74.0	59.0	50.0	45.0	44.0
68°	4133.0	3270.0	689.0	125.0	97.0	83.0	73.0	57.0	48.0	43.0	42.0
70°	3725.0	2638.0	198.0	119.0	95.0	80.0	67.0	52.0	43.0	37.0	36.0
72.5°	2805.0	1546.0	124.0	106.0	94.0	71.0	65.0	52.0	38.0	32.0	30.0
75°	1566.0	352.0	105.0	79.0	88.0	70.0	64.0	47.0	34.0	26.0	25.0
77.5°	322.0	102.0	90.0	55.0	67.0	61.0	54.0	40.0	31.0	20.0	19.0
80°	91.0	76.0	80.0	40.0	38.0	43.0	40.0	35.0	23.0	15.0	15.0
82.5°	59.0	56.0	72.0	27.0	20.0	20.0	26.0	21.0	20.0	12.0	12.0
85°	36.0	47.0	35.0	12.0	10.0	8.0	9.0	9.0	12.0	8.0	8.0
87.5°	5.0	5.0	5.0	5.0	5.0	4.0	3.0	3.0	3.0	4.0	4.0
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)