

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: P320098

Luminaire Tested: **GAN-SA4D-760-U-SL4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P320098
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-24)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA4D-760-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 5700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29741 lumens
Efficiency: N/A
Efficacy: 115.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 258
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

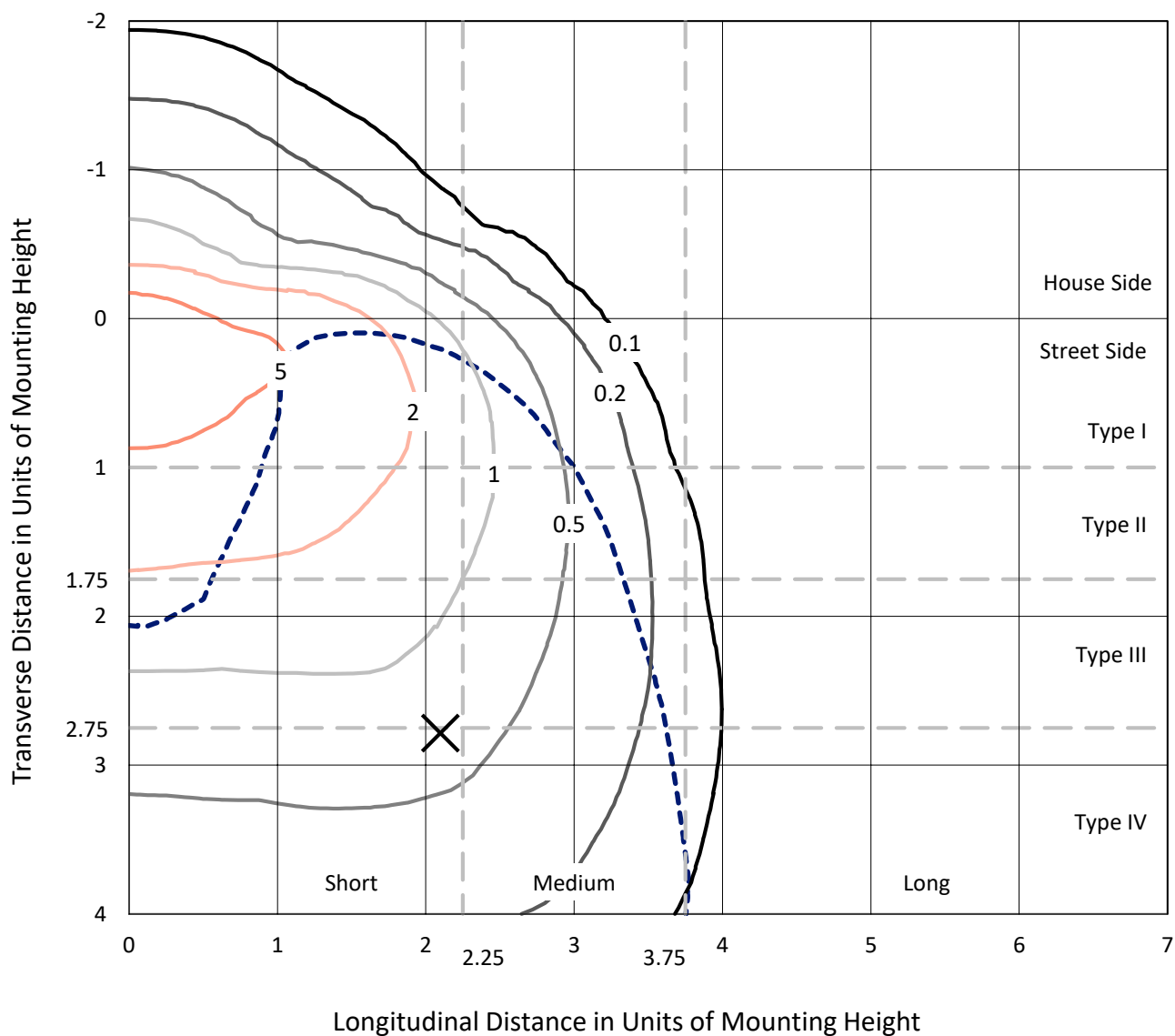


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Iso-Footcandle Lines of Horizontal Illumination

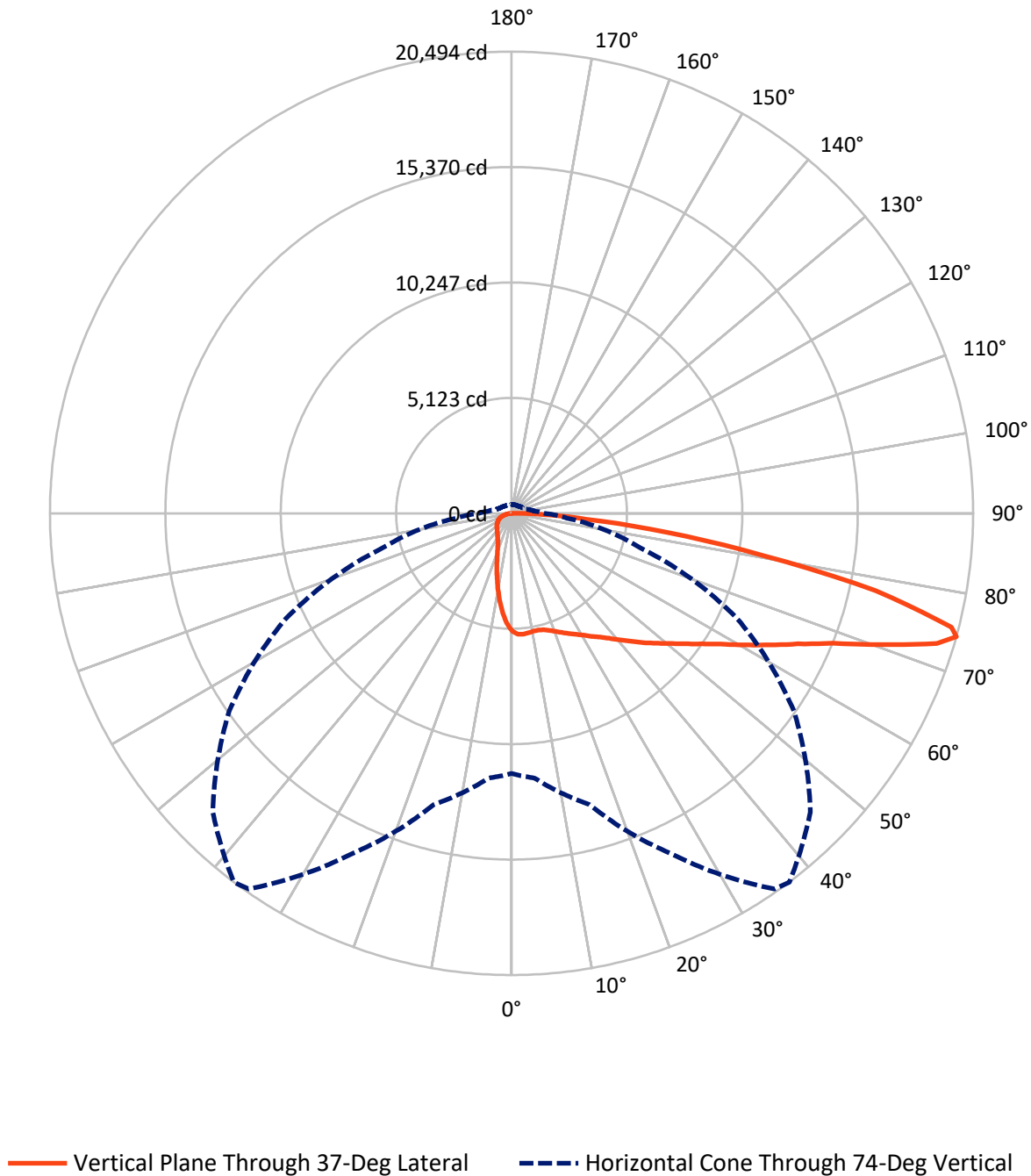
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.5 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4092.2	0.0	4092.2
	% Fixture	13.8	0.0	13.8
Street Side	Lumens	25648.8	0.0	25648.8
	% Fixture	86.2	0.0	86.2
Total	Lumens	29741.0	0.0	29741.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	461.5	1.6
10°-20°	1182.9	4.0
20°-30°	1822.5	6.1
30°-40°	2650.2	8.9
40°-50°	3900.7	13.1
50°-60°	5477.8	18.4
60°-70°	6933.3	23.3
70°-80°	6105.0	20.5
80°-90°	1207.1	4.1
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°	29741.0	100.0
0°-180°	29741.0	100.0

Coefficient of Utilization



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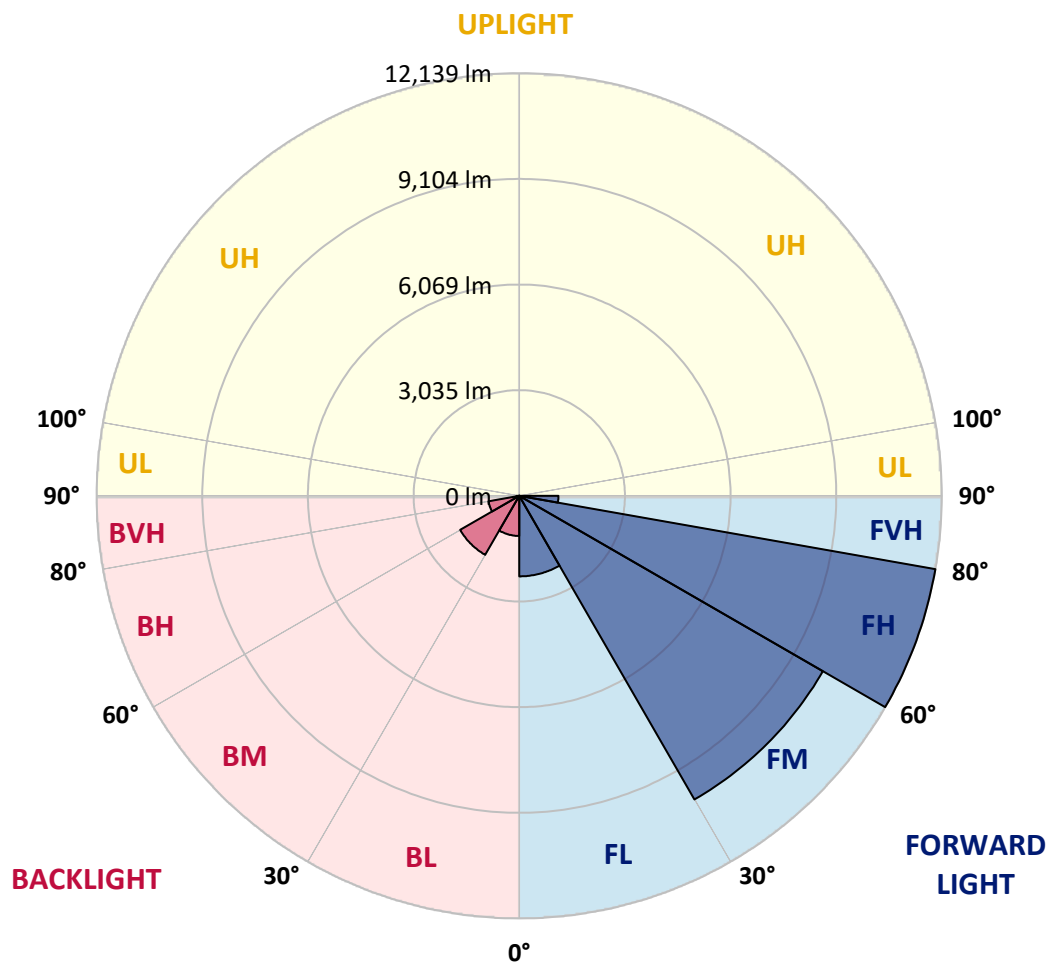
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2314.2	7.8			
FM	(30°-60°)	10070.5	33.9			
FH	(60°-80°)	12138.8	40.8			G5
FVH	(80°-90°)	1125.3	3.8			G5
BL	(0°-30°)	1152.7	3.9	B3/2500		
BM	(30°-60°)	1958.3	6.6	B2/2500		
BH	(60°-80°)	899.5	3.0	B2/1000		G2/1000
BVH	(80°-90°)	81.7	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	37°	45°	55°	65°	75°	85°
0°	5240.2	5240.2	5240.2	5240.2	5240.2	5240.2	5240.2	5240.2	5240.2	5240.2	5240.2
2.5°	5419.4	5420.4	5419.4	5411.0	5391.1	5374.3	5360.7	5340.8	5296.8	5263.3	5213.0
5°	5470.7	5464.4	5460.3	5444.5	5413.1	5394.3	5368.1	5330.3	5258.1	5191.0	5109.3
7.5°	5446.6	5439.3	5429.9	5411.0	5375.4	5359.7	5323.0	5273.8	5186.8	5098.8	4981.5
10°	5372.3	5370.2	5366.0	5361.8	5331.4	5318.8	5285.3	5232.9	5147.0	5040.2	4902.9
12.5°	5289.5	5294.7	5311.5	5333.5	5319.9	5313.6	5292.6	5257.0	5169.0	5053.8	4888.2
15°	5237.1	5251.8	5296.8	5354.4	5366.0	5363.9	5358.6	5335.6	5242.3	5114.5	4921.8
17.5°	5219.3	5243.4	5329.3	5424.6	5458.2	5465.5	5467.6	5427.8	5324.1	5188.9	4956.3
20°	5251.8	5282.2	5407.9	5538.8	5592.3	5596.4	5587.0	5517.9	5401.6	5252.8	4975.2
22.5°	5350.3	5377.5	5534.6	5682.3	5743.1	5749.4	5721.1	5616.3	5483.3	5328.2	5001.4
25°	5539.9	5573.4	5730.5	5878.3	5909.7	5910.7	5869.9	5740.0	5590.2	5434.1	5058.0
27.5°	5787.1	5820.6	5962.1	6106.6	6089.9	6080.4	6024.9	5895.0	5729.5	5579.7	5158.5
30°	6062.6	6099.3	6233.4	6336.1	6296.3	6277.4	6232.4	6064.7	5923.3	5778.7	5312.5
32.5°	6347.6	6381.1	6498.5	6568.6	6518.4	6510.0	6441.9	6288.9	6175.8	6082.5	5561.9
35°	6639.9	6664.0	6779.2	6819.0	6752.0	6749.9	6731.0	6590.6	6519.4	6563.4	5924.4
37.5°	6938.5	6944.7	7043.2	7045.3	7025.4	7033.8	7053.7	6965.7	6985.6	7122.8	6395.8
40°	7204.6	7221.3	7292.6	7314.6	7349.1	7378.5	7478.0	7420.4	7574.4	7817.4	6982.5
42.5°	7401.5	7434.0	7548.2	7604.8	7716.8	7762.9	7903.3	7956.8	8266.9	8631.4	7680.2
45°	7568.1	7618.4	7801.7	7918.0	8107.6	8188.3	8389.4	8568.6	9049.4	9514.6	8414.6
47.5°	7748.3	7812.2	8041.6	8263.7	8521.4	8612.6	8978.2	9246.4	9884.4	10403.0	9107.1
50°	8013.3	8062.6	8286.8	8635.6	8957.2	9074.6	9580.6	9965.1	10733.0	11249.5	9707.3
52.5°	8383.1	8364.3	8553.9	9043.1	9474.8	9619.3	10223.8	10729.8	11593.1	12015.3	10214.4
55°	8755.1	8723.6	8856.7	9469.5	10078.2	10230.1	10932.0	11497.7	12411.3	12704.6	10603.1
57.5°	9168.9	9109.1	9221.2	9950.4	10765.5	10946.7	11725.1	12313.9	13215.9	13262.0	10850.3
60°	9595.2	9514.6	9640.3	10546.5	11638.1	11851.8	12653.3	13110.1	13974.3	13708.2	10929.9
62.5°	9968.2	9911.6	10105.4	11211.7	12621.9	12856.5	13564.7	13956.5	14722.4	13893.7	10642.9
65°	10294.0	10303.4	10638.7	11959.8	13718.7	13969.1	14610.3	15000.0	15311.1	13783.7	9971.3
67.5°	10682.7	10736.1	11308.1	12944.5	15099.5	15374.0	16131.4	16137.7	15640.1	13138.3	8649.2
70°	11249.5	11359.5	12229.0	14310.6	17062.8	17439.9	18024.5	16806.1	15178.1	11388.8	6805.4
72.5°	11752.3	11957.7	13208.5	15873.7	19455.6	19741.6	19131.8	16420.6	13247.3	8535.0	4239.8
74°	11548.0	11802.6	13386.6	16643.7	20356.5	20493.8	18757.8	15295.4	11045.2	5910.7	2464.0
75°	11108.0	11384.6	13126.8	16636.4	20242.3	20165.8	17854.8	14010.0	9096.6	4031.3	1639.5
77.5°	8964.6	9256.9	11060.9	14258.3	16597.6	16525.3	13715.6	9398.3	3984.1	1322.1	832.9
80°	5212.0	5435.1	6866.2	9054.7	11191.8	11322.8	9020.1	4650.4	1567.3	742.8	564.7
82.5°	2315.3	2469.3	3316.8	4622.1	6754.1	6922.7	4723.8	2436.8	968.0	451.5	339.4
85°	1519.1	1633.3	2013.5	2201.1	3216.2	3331.5	2312.1	1897.3	639.1	248.3	249.3
87.5°	1092.7	1202.7	1496.0	1306.4	1476.1	1397.5	1258.2	1755.8	256.7	141.4	83.8
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°	5240.2	5240.2	5240.2	5240.2	5240.2	5240.2	5240.2	5240.2	5240.2	5240.2	5240.2
2.5°	5191.0	5174.2	5136.5	5065.3	5025.5	4992.0	4936.4	4904.0	4889.3	4888.2	4894.5
5°	5062.2	5023.4	4926.0	4806.5	4711.2	4624.2	4516.3	4451.4	4405.3	4378.0	4385.4
7.5°	4912.3	4851.6	4698.6	4508.0	4355.0	4186.3	4019.8	3920.2	3842.7	3785.1	3795.6
10°	4809.7	4725.9	4502.7	4228.2	3973.7	3728.5	3499.1	3361.8	3252.9	3169.1	3175.4
12.5°	4775.1	4662.0	4352.9	3986.2	3629.0	3293.8	2994.1	2783.6	2671.5	2576.1	2583.5
15°	4780.3	4628.4	4227.2	3768.3	3318.9	2896.7	2533.2	2287.0	2135.1	2069.1	2070.1
17.5°	4784.5	4589.7	4095.2	3534.7	3011.9	2525.8	2130.9	1881.5	1738.0	1677.3	1678.3
20°	4770.9	4526.8	3931.8	3266.5	2691.4	2185.4	1803.0	1591.4	1482.4	1435.3	1435.3
22.5°	4753.1	4452.4	3747.4	2997.3	2375.0	1889.9	1568.3	1407.0	1344.1	1312.7	1311.6
25°	4761.5	4396.9	3558.8	2720.7	2083.7	1654.2	1412.2	1305.3	1263.4	1243.5	1242.5
27.5°	4806.5	4370.7	3384.9	2445.2	1829.2	1477.2	1307.4	1232.0	1204.8	1192.2	1192.2
30°	4888.2	4370.7	3203.7	2210.5	1617.5	1346.2	1226.8	1175.4	1156.6	1148.2	1148.2
32.5°	5030.7	4394.8	3028.7	1977.9	1448.9	1243.5	1159.7	1125.2	1110.5	1106.3	1106.3
35°	5275.9	4476.5	2857.9	1757.9	1312.7	1159.7	1095.8	1075.9	1065.4	1064.4	1067.5
37.5°	5620.5	4643.1	2697.6	1595.5	1216.3	1091.6	1042.4	1026.7	1020.4	1025.6	1029.8
40°	6054.3	4869.4	2552.0	1448.9	1143.0	1037.2	993.2	982.7	979.5	986.9	993.2
42.5°	6578.1	5175.3	2432.6	1343.1	1086.4	991.1	951.2	938.7	935.5	943.9	952.3
45°	7144.8	5504.3	2348.8	1264.5	1042.4	956.5	914.6	901.0	894.7	898.9	908.3
47.5°	7660.3	5815.4	2315.3	1209.0	1000.5	927.2	882.1	865.3	854.9	852.8	860.1
50°	8095.0	6046.9	2331.0	1175.4	967.0	894.7	850.7	831.8	816.1	806.7	811.9
52.5°	8411.4	6192.5	2345.6	1160.8	940.8	859.1	816.1	798.3	777.3	761.6	761.6
55°	8640.9	6226.1	2313.2	1149.3	920.9	820.3	777.3	760.6	739.6	721.8	719.7
57.5°	8731.0	6131.8	2192.7	1132.5	907.2	783.6	736.5	723.9	706.1	685.2	684.1
60°	8609.4	5840.5	1960.1	1096.9	889.4	753.2	695.6	687.2	678.9	659.0	657.9
62.5°	8121.2	5201.5	1659.4	1024.6	853.8	720.8	657.9	662.1	663.2	649.5	647.4
65°	7236.0	4323.6	1366.1	930.3	800.4	682.0	619.1	639.1	650.6	648.5	645.3
67.5°	5949.5	3365.0	1157.6	830.8	730.2	628.6	577.2	600.3	609.7	617.1	615.0
70°	4415.8	2372.9	957.5	726.0	645.3	565.7	522.8	534.3	528.0	536.4	539.5
72.5°	2461.9	1423.7	780.5	621.2	557.3	492.4	462.0	459.9	446.3	446.3	446.3
74°	1477.2	1044.5	686.2	556.3	503.9	444.2	418.0	408.6	396.0	397.1	396.0
75°	1188.0	897.8	629.6	513.3	466.2	415.9	389.7	377.1	367.7	367.7	366.7
77.5°	750.1	682.0	507.1	408.6	373.0	342.6	324.8	308.0	308.0	307.0	305.9
80°	566.8	542.7	395.0	309.1	286.0	263.0	251.4	244.1	244.1	247.2	246.2
82.5°	388.7	408.6	277.6	215.8	204.3	187.5	185.4	186.5	183.3	179.1	178.1
85°	283.9	307.0	187.5	136.2	124.7	114.2	122.6	126.8	121.5	112.1	107.9
87.5°	109.0	201.1	100.6	56.6	52.4	45.0	52.4	54.5	58.7	46.1	47.1
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)