

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: P192689

Luminaire Tested: **GAN-AF-01-LED-U-AFL-7030-600-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192689
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24165)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-01-LED-U-AFL-7030-600-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K, 615mA LIGHTSQUARE WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4074.3 lumens
Efficiency: N/A
Efficacy: 119.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B1 - U0 - G1

Input Watts (W): 34
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

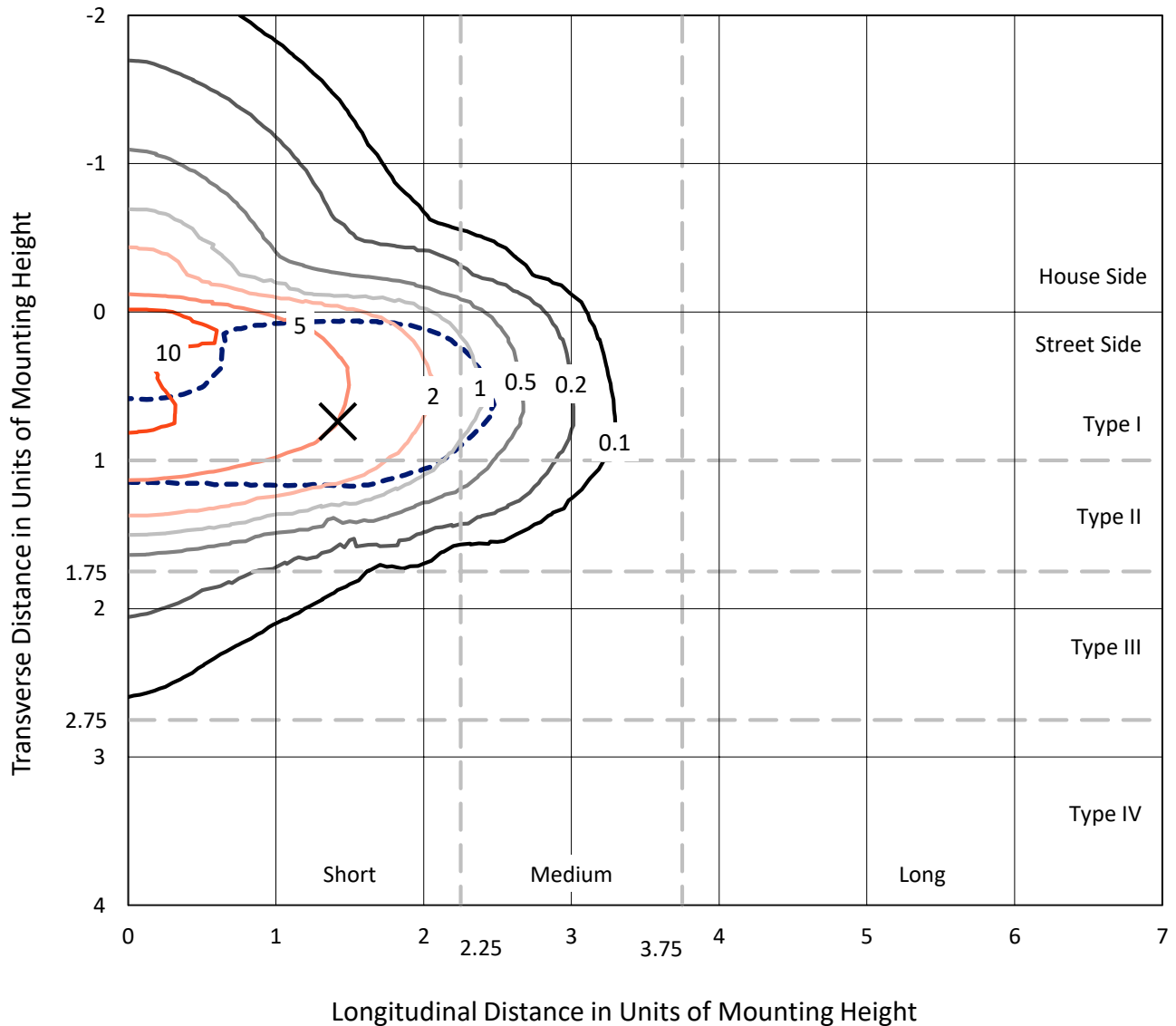


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

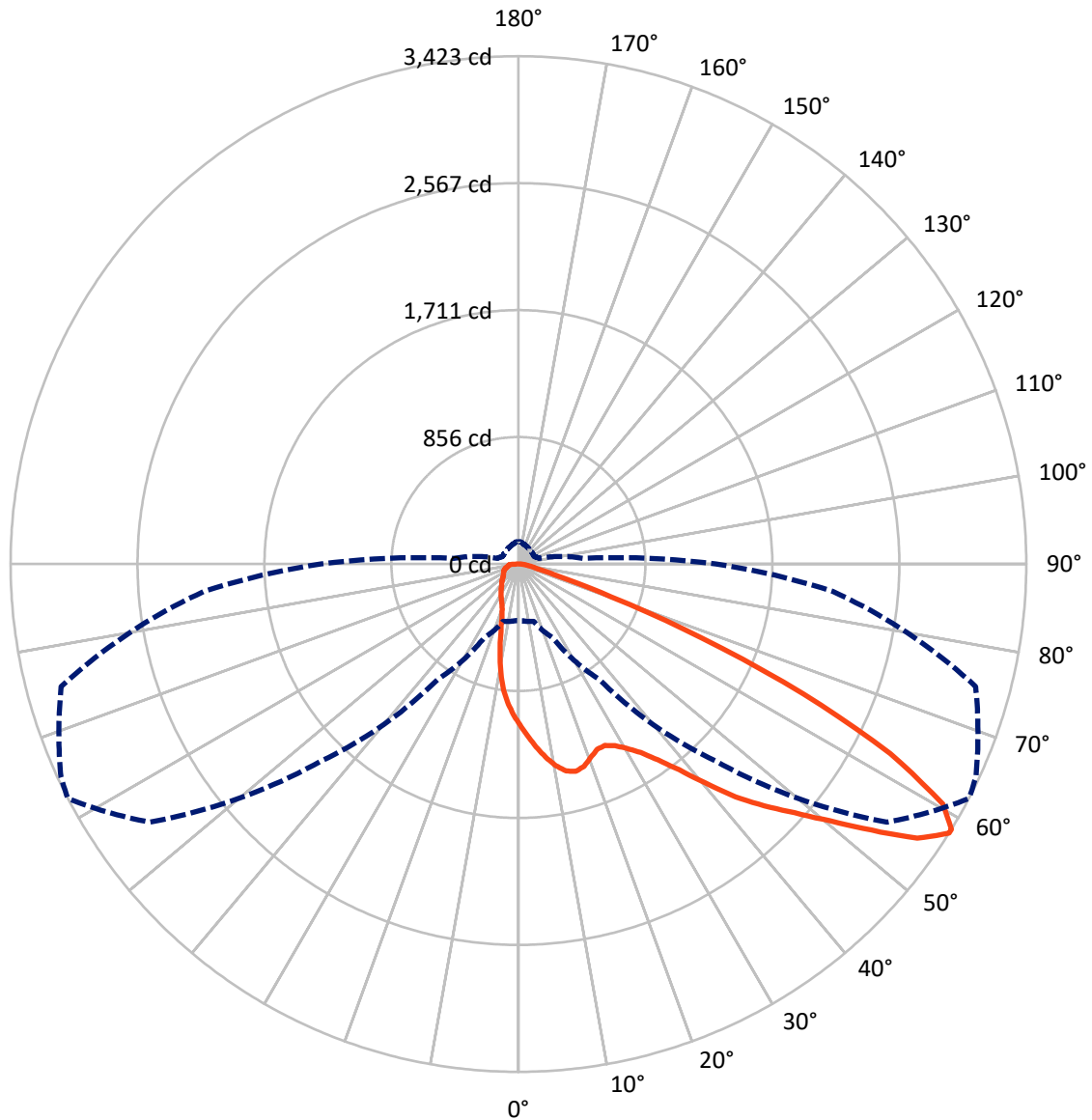


Based on 10 foot mounting height. Maximum calculated value = 13.2 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 62.5-Deg Lateral - - - Horizontal Cone Through 58-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	621.3	0.0	621.3
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	3452.9	0.0	3452.9
	% Fixture	84.7	0.0	84.7
Total	Lumens	4074.3	0.0	4074.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.8	2.4
10°-20°	247.4	6.1
20°-30°	400.0	9.8
30°-40°	634.9	15.6
40°-50°	929.0	22.8
50°-60°	971.7	23.8
60°-70°	574.1	14.1
70°-80°	161.7	4.0
80°-90°	58.7	1.4
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°	4074.3	100.0
0°-180°	4074.3	100.0



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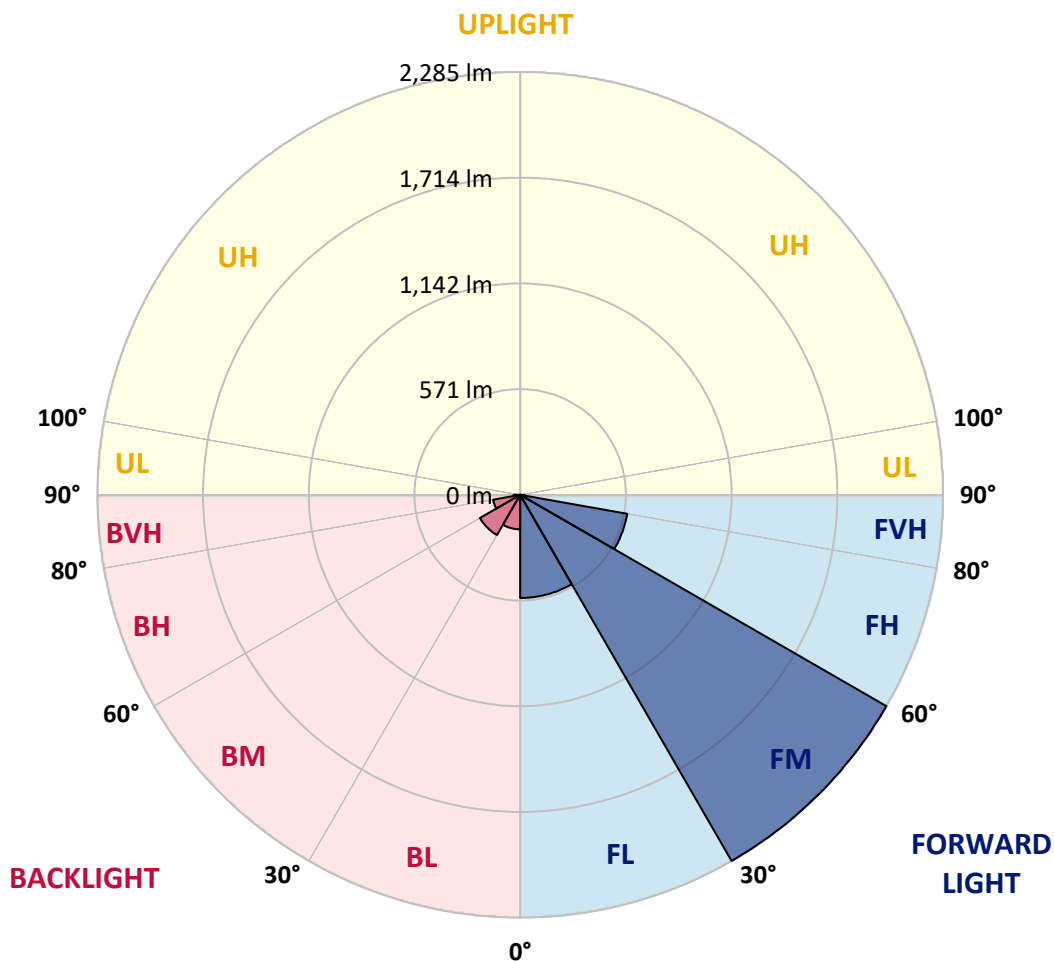
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	557.4	13.7			
FM	(30°-60°)	2284.8	56.1			
FH	(60°-80°)	587.5	14.4			G0/660
FVH	(80°-90°)	23.2	0.6			G1/100
BL	(0°-30°)	186.7	4.6	B1/500		
BM	(30°-60°)	250.8	6.2	B1/1000		
BH	(60°-80°)	148.3	3.6	B1/500		G1/500
BVH	(80°-90°)	35.6	0.9			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	62.5°	65°	75°	85°
0°	1082.2	1082.2	1082.2	1082.2	1082.2	1082.2	1082.2	1082.2	1082.2	1082.2	1082.2
2.5°	1236.7	1226.8	1220.4	1214.9	1207.6	1192.0	1171.0	1157.8	1151.1	1128.3	1101.3
5°	1358.0	1349.2	1342.6	1335.1	1322.0	1297.7	1263.9	1237.1	1223.8	1178.2	1124.1
7.5°	1329.5	1333.2	1344.6	1364.3	1381.1	1377.9	1347.8	1313.7	1296.2	1232.7	1150.5
10°	1158.3	1164.7	1184.3	1230.6	1305.4	1382.1	1405.5	1381.9	1364.3	1286.5	1177.9
12.5°	1124.1	1123.8	1125.4	1137.7	1182.1	1290.3	1407.5	1431.2	1420.7	1338.0	1205.5
15°	1138.1	1138.5	1137.3	1142.6	1156.3	1199.1	1348.7	1450.2	1457.7	1389.8	1234.4
17.5°	1174.9	1174.0	1169.5	1169.5	1174.5	1191.3	1279.7	1432.6	1467.2	1435.6	1259.8
20°	1236.7	1232.2	1220.5	1209.8	1204.5	1213.5	1251.2	1391.9	1450.9	1475.8	1280.6
22.5°	1311.5	1308.1	1289.0	1266.1	1247.4	1247.2	1265.9	1356.5	1422.5	1513.6	1298.3
25°	1408.3	1402.7	1374.5	1337.7	1305.0	1292.5	1297.7	1354.7	1407.3	1554.5	1314.1
27.5°	1521.8	1511.6	1478.3	1425.1	1377.1	1352.0	1344.6	1386.0	1421.3	1605.4	1335.9
30°	1659.5	1647.8	1605.0	1535.7	1468.1	1426.8	1410.9	1441.3	1467.7	1667.4	1370.9
32.5°	1816.3	1799.4	1749.9	1673.6	1584.5	1521.6	1495.6	1514.7	1535.6	1742.0	1414.9
35°	2032.9	2012.8	1941.2	1835.9	1735.4	1648.8	1607.3	1621.2	1641.5	1853.4	1478.4
37.5°	2180.6	2171.6	2124.0	2025.0	1915.7	1816.1	1752.0	1760.0	1771.5	1992.5	1559.7
40°	2179.2	2182.9	2183.9	2184.8	2110.4	2015.1	1946.1	1937.7	1935.4	2145.1	1652.2
42.5°	2070.1	2085.1	2133.4	2231.4	2276.8	2233.0	2169.9	2145.6	2133.4	2325.0	1750.4
45°	1903.0	1911.1	2001.6	2193.1	2361.9	2448.8	2401.1	2324.3	2302.4	2490.4	1831.6
47.5°	1816.9	1825.7	1882.6	2091.4	2361.0	2623.2	2650.8	2504.7	2465.6	2634.3	1901.8
50°	1611.8	1630.1	1701.9	1914.5	2274.8	2703.4	2912.0	2719.6	2638.6	2774.4	1972.2
52.5°	1235.1	1263.6	1343.9	1623.7	2056.3	2663.7	3120.9	2980.0	2865.8	2919.4	2032.7
55°	779.1	800.3	867.7	1146.6	1645.0	2457.0	3200.1	3261.9	3160.3	3056.8	2085.1
57.5°	423.6	433.0	458.4	633.1	1069.9	2000.3	3084.6	3422.3	3380.1	3173.4	2124.5
58°	379.1	385.4	401.2	548.7	948.9	1875.3	3033.4	3422.9	3401.8	3190.5	2127.8
60°	281.3	277.9	264.0	313.1	528.2	1295.6	2723.8	3285.9	3347.8	3211.4	2112.7
62.5°	247.2	239.3	210.7	207.4	256.9	596.9	2084.1	2814.7	2961.0	3092.1	2021.8
65°	232.1	223.7	186.9	175.0	185.3	252.5	1227.6	2111.0	2294.6	2730.3	1789.2
67.5°	221.0	210.1	171.7	155.3	156.1	166.9	492.1	1329.5	1536.1	2072.9	1391.8
70°	210.4	198.5	158.9	140.1	135.6	131.9	195.7	665.5	853.0	1309.4	887.3
72.5°	198.8	187.1	147.5	128.0	119.3	107.3	127.8	272.3	380.2	619.5	402.5
75°	182.0	171.5	136.2	117.2	105.0	88.8	96.4	142.1	170.6	246.7	193.9
77.5°	161.6	152.9	123.6	108.3	93.1	72.1	74.3	98.7	109.4	141.2	115.3
80°	116.1	119.1	110.0	97.5	82.9	58.6	57.1	71.9	77.7	90.8	75.1
82.5°	81.5	83.2	90.9	79.6	68.5	46.0	42.1	50.7	54.1	59.6	40.5
85°	56.2	54.3	62.4	55.4	49.5	30.7	28.7	34.3	36.5	37.0	20.9
87.5°	33.8	33.8	36.0	29.7	26.7	16.0	15.6	19.5	20.9	20.0	11.5
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°	1082.2	1082.2	1082.2	1082.2	1082.2	1082.2	1082.2	1082.2	1082.2	1082.2	1082.2
2.5°	1085.2	1071.5	1042.6	1019.3	990.0	959.6	942.4	924.2	911.7	902.7	917.0
5°	1093.3	1065.6	1005.7	948.9	886.2	821.0	771.5	725.4	693.4	673.4	692.1
7.5°	1106.5	1063.6	968.2	871.3	758.6	650.0	553.0	492.1	456.6	439.1	450.0
10°	1121.4	1060.6	924.4	765.9	604.8	467.9	395.4	370.8	362.8	359.6	361.1
12.5°	1133.9	1054.1	870.5	638.5	454.1	369.6	348.6	348.0	349.7	350.1	350.7
15°	1142.7	1044.4	790.5	505.8	363.2	336.7	335.5	339.0	342.3	343.6	344.3
17.5°	1148.7	1024.8	700.1	399.8	325.4	320.7	323.5	327.9	331.4	332.2	333.0
20°	1148.1	995.7	592.4	333.5	304.9	304.9	309.4	312.9	313.1	311.9	312.5
22.5°	1142.1	956.0	488.1	298.2	286.6	289.9	294.5	291.2	277.8	269.0	269.6
25°	1132.2	908.6	398.7	275.7	269.8	275.6	274.1	249.5	230.4	221.8	221.8
27.5°	1123.3	852.6	330.0	256.1	252.8	259.9	236.2	213.9	205.9	201.8	200.5
30°	1116.9	792.1	284.2	237.3	237.0	231.7	204.9	198.8	197.4	194.2	193.0
32.5°	1118.5	731.0	254.8	220.8	222.2	198.5	189.9	191.3	190.1	186.8	185.0
35°	1131.2	672.8	235.6	205.9	201.8	179.1	181.2	183.5	183.2	178.4	176.9
37.5°	1153.8	617.8	222.9	193.4	176.1	169.6	172.6	176.5	175.6	172.3	171.1
40°	1177.6	566.0	212.6	183.5	160.9	163.2	165.7	167.8	168.8	169.8	169.1
42.5°	1200.9	511.9	200.0	173.6	154.6	156.9	158.1	160.2	165.4	169.1	168.8
45°	1214.6	461.1	186.9	159.4	149.6	151.0	150.2	154.5	160.7	166.7	166.9
47.5°	1229.9	421.5	176.5	146.4	144.9	145.9	143.4	147.7	153.5	160.7	161.6
50°	1248.7	397.9	168.3	136.0	138.3	138.3	137.7	141.6	149.6	158.1	159.6
52.5°	1269.7	393.4	161.3	128.5	131.7	131.6	132.2	138.0	146.7	155.0	156.3
55°	1295.4	405.8	153.8	123.0	125.4	126.2	128.2	134.7	142.1	151.6	152.1
57.5°	1325.4	431.1	147.9	118.5	119.7	122.3	125.3	131.2	139.3	149.6	150.2
58°	1330.3	436.5	147.0	118.2	118.5	121.5	124.9	130.7	138.8	150.0	150.6
60°	1330.6	454.3	144.9	116.5	114.1	119.0	122.8	128.5	137.7	151.4	152.8
62.5°	1283.4	454.1	143.3	113.9	109.6	115.5	119.8	126.6	136.8	154.6	157.4
65°	1130.1	412.7	136.0	110.2	105.9	112.4	117.5	125.3	139.6	168.8	170.6
67.5°	883.9	338.2	122.4	104.8	101.1	109.4	116.0	125.1	142.4	172.1	173.2
70°	584.4	253.1	107.4	98.7	96.1	105.8	116.7	131.6	139.1	165.2	162.1
72.5°	303.3	177.6	95.4	90.9	90.3	102.4	127.8	130.9	135.8	155.3	151.6
75°	159.2	123.4	84.7	82.5	83.5	101.7	150.8	127.4	131.6	148.7	156.0
77.5°	97.5	99.5	75.8	74.9	76.7	99.4	150.6	123.0	125.4	136.8	144.9
80°	65.2	80.8	68.9	69.1	70.4	90.9	135.3	116.1	118.0	129.4	137.5
82.5°	41.3	47.7	62.5	65.8	64.0	75.1	114.9	105.8	108.3	147.9	156.3
85°	20.9	29.9	54.3	63.3	57.8	52.6	93.2	92.7	94.0	106.6	111.5
87.5°	9.7	16.5	42.4	55.2	43.6	32.8	67.7	68.8	74.1	75.8	75.8
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)