

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: P318005

Luminaire Tested: **GAN-SA1C-727-U-T2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318005
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-SA1C-727-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6077 lumens
Efficiency: N/A
Efficacy: 103.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

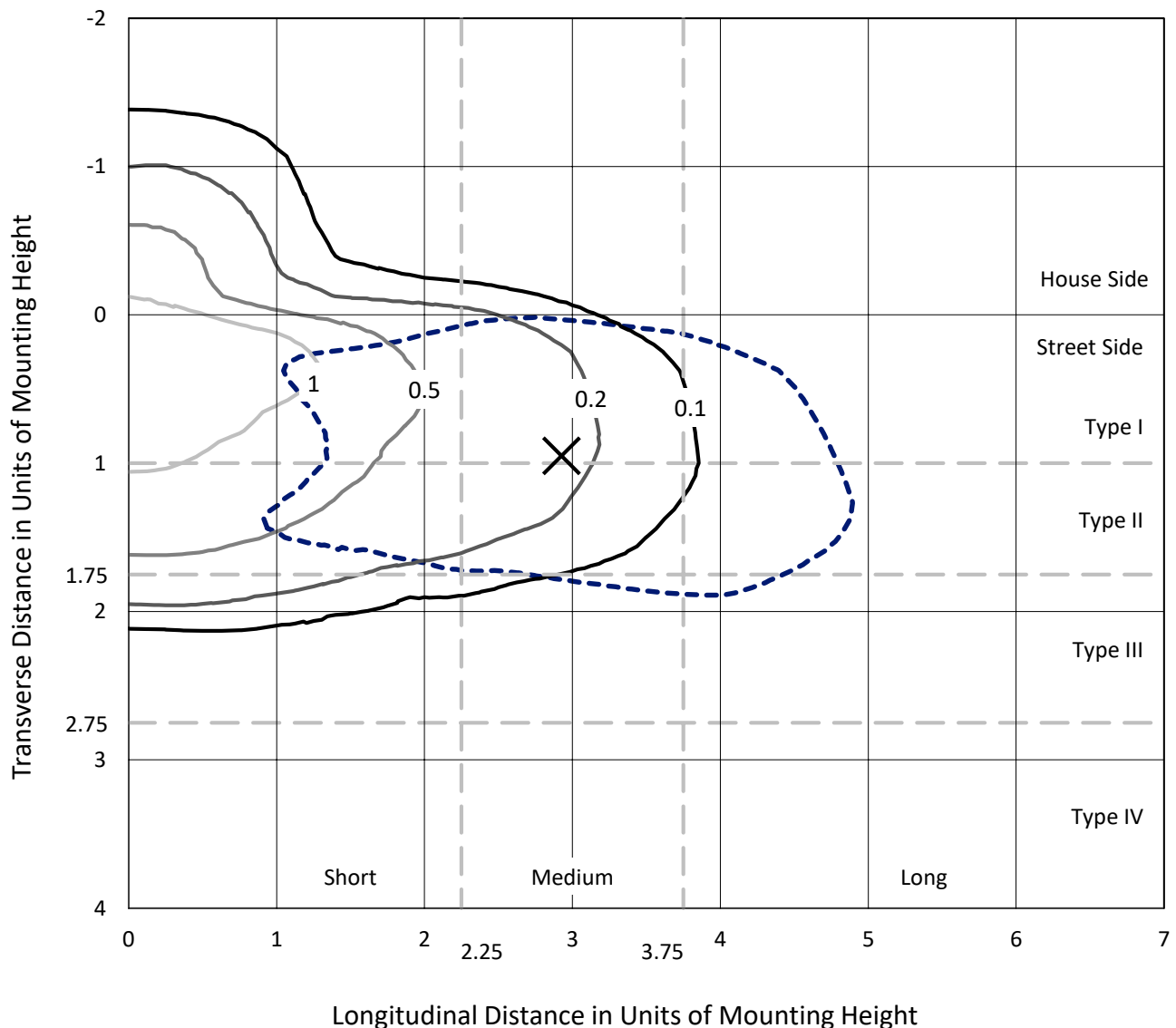
Input Watts (W): 59
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

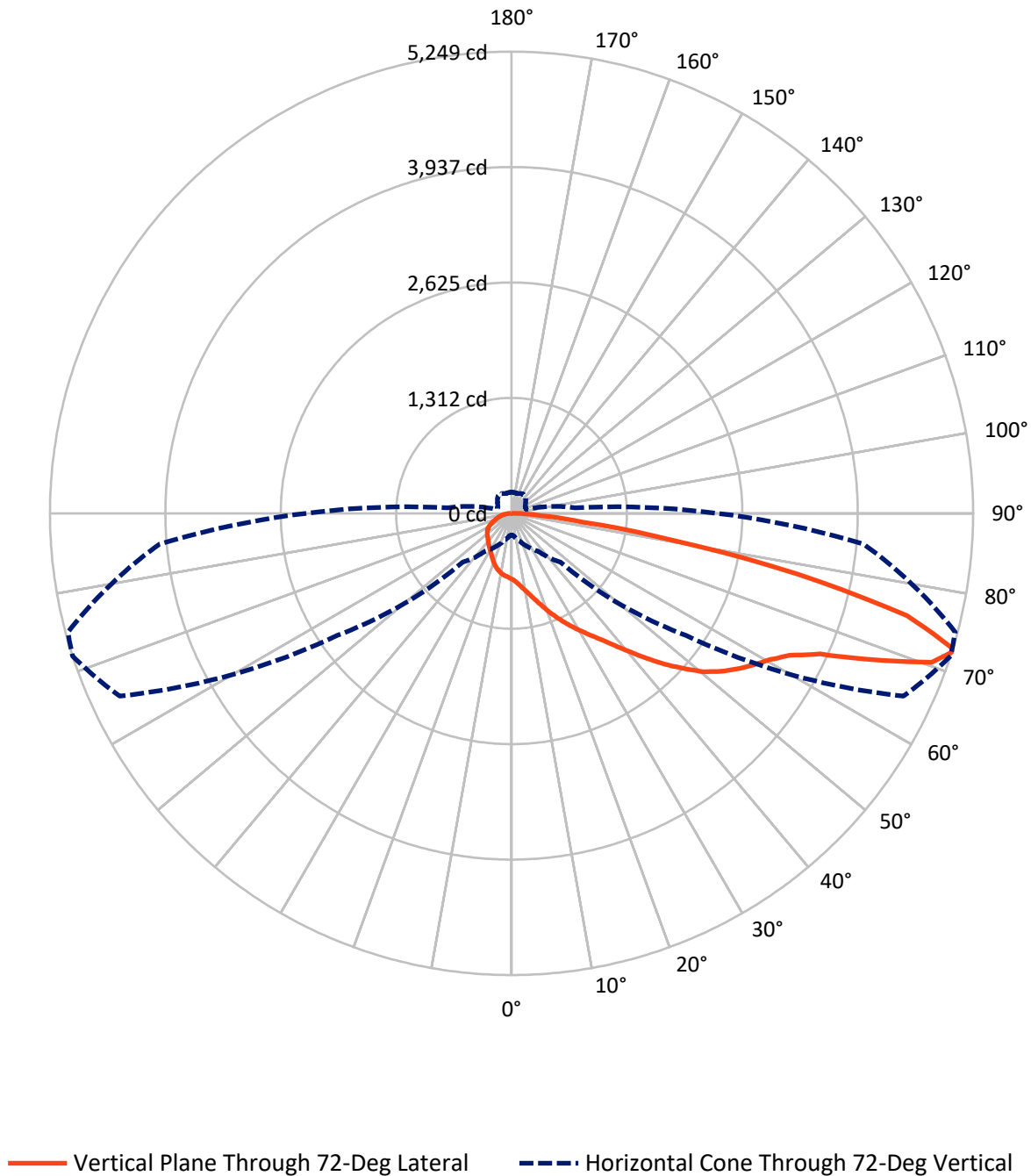
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 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	1127.3	0.0	1127.3
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	4949.7	0.0	4949.7
	% Fixture	81.4	0.0	81.4
Total	Lumens	6077.0	0.0	6077.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.9	1.2
10°-20°	242.1	4.0
20°-30°	424.2	7.0
30°-40°	629.0	10.4
40°-50°	919.9	15.1
50°-60°	1265.8	20.8
60°-70°	1409.2	23.2
70°-80°	954.9	15.7
80°-90°	156.9	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°	6077.0	100.0
0°-180°	6077.0	100.0

Coefficient of Utilization



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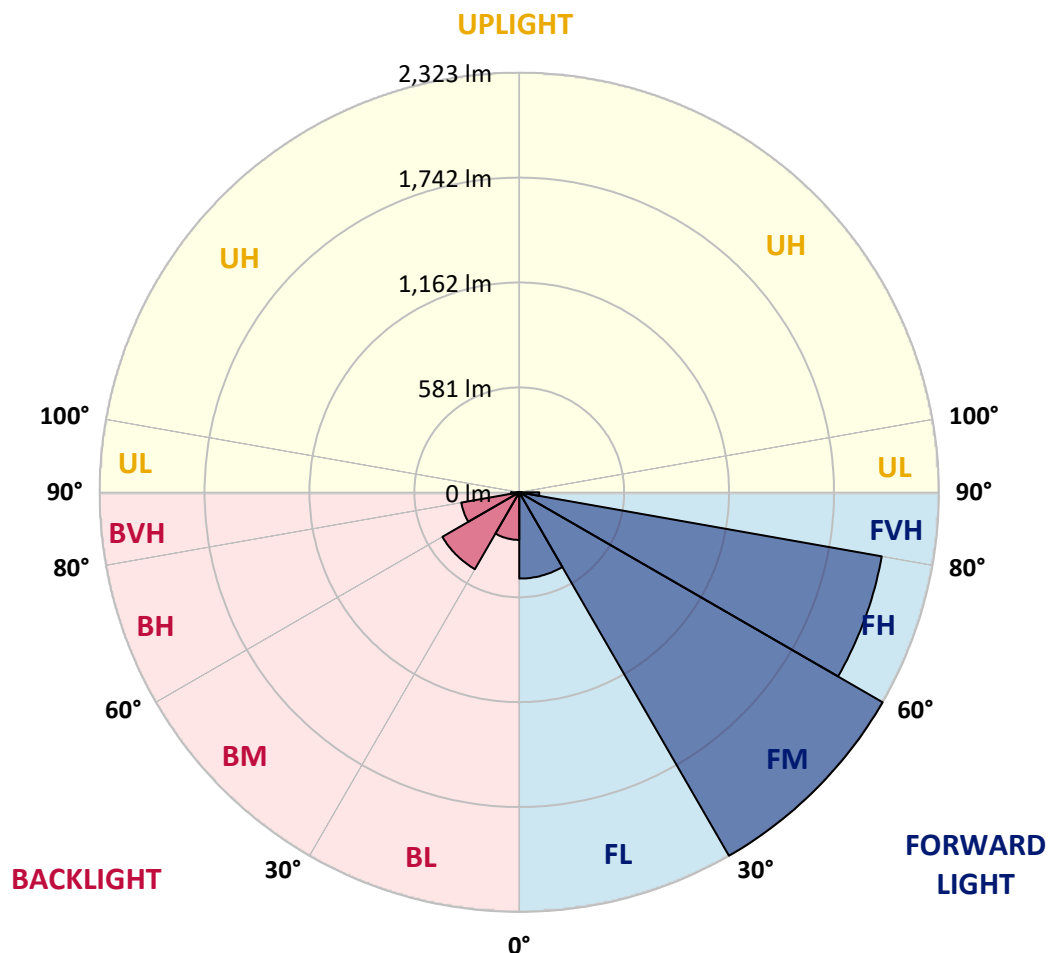
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	477.7	7.9			
FM	(30°-60°)	2323.3	38.2			
FH	(60°-80°)	2038.0	33.5			G2/5000
FVH	(80°-90°)	110.7	1.8			G2/225
BL	(0°-30°)	263.5	4.3	B1/500		
BM	(30°-60°)	491.4	8.1	B1/1000		
BH	(60°-80°)	326.1	5.4	B1/500		G1/500
BVH	(80°-90°)	46.2	0.8			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 III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	747.6	747.6	747.6	747.6	747.6	747.6	747.6	747.6	747.6	747.6	747.6
2.5°	825.9	824.6	820.2	820.2	811.9	804.8	791.4	782.4	771.7	767.9	755.4
5°	905.8	906.2	900.8	897.0	884.7	869.6	846.8	826.1	805.4	797.0	771.3
7.5°	973.0	972.1	970.7	967.5	956.0	940.6	909.8	879.0	848.5	835.9	791.6
10°	1016.1	1018.0	1019.2	1020.7	1015.9	1004.8	975.7	938.3	898.3	881.1	815.8
12.5°	1037.9	1041.2	1047.1	1057.1	1065.1	1063.8	1042.7	1002.9	955.4	933.9	846.2
15°	1050.6	1055.0	1064.2	1082.2	1104.6	1117.4	1111.7	1075.7	1022.8	996.2	883.2
17.5°	1058.6	1062.1	1076.4	1100.4	1133.7	1167.6	1182.4	1152.3	1099.0	1068.6	925.7
20°	1064.0	1066.7	1084.5	1112.8	1155.9	1209.8	1251.3	1243.7	1182.9	1143.5	970.1
22.5°	1076.1	1078.4	1095.4	1123.9	1171.6	1241.2	1317.6	1328.9	1271.4	1226.8	1017.6
25°	1110.0	1110.0	1124.3	1144.1	1188.9	1268.4	1373.7	1423.7	1361.8	1309.9	1061.5
27.5°	1174.7	1174.1	1179.3	1186.2	1220.1	1296.1	1423.7	1507.4	1455.5	1398.8	1104.2
30°	1251.3	1255.5	1256.1	1252.7	1268.6	1330.6	1469.9	1595.7	1549.9	1488.8	1147.9
32.5°	1349.8	1352.6	1349.4	1338.3	1336.0	1379.5	1515.3	1688.2	1652.0	1582.7	1187.9
35°	1475.0	1469.7	1459.9	1437.3	1415.7	1445.0	1567.2	1780.7	1766.6	1696.3	1242.9
37.5°	1609.1	1609.3	1597.2	1545.9	1516.2	1528.7	1638.8	1885.5	1905.4	1831.5	1313.4
40°	1716.6	1722.3	1729.8	1662.4	1623.9	1641.3	1729.8	2007.1	2069.4	1991.8	1405.3
42.5°	1791.8	1798.2	1819.6	1777.3	1737.4	1769.6	1837.0	2136.8	2253.6	2176.8	1512.8
45°	1871.3	1874.8	1889.9	1871.7	1846.2	1918.8	1957.7	2271.1	2448.4	2373.9	1633.2
47.5°	1955.0	1958.7	1974.2	1962.1	1948.7	2058.1	2083.7	2397.7	2635.0	2590.4	1761.6
50°	2058.3	2060.8	2075.5	2053.5	2057.7	2163.2	2196.2	2513.9	2830.7	2785.0	1890.5
52.5°	2199.4	2200.0	2220.3	2200.4	2180.7	2240.2	2293.1	2623.3	2984.0	2962.5	2019.4
55°	2309.8	2316.5	2383.1	2378.9	2367.6	2310.1	2374.1	2727.5	3120.9	3131.1	2156.3
57.5°	2239.3	2265.5	2400.2	2495.2	2587.7	2483.9	2483.5	2844.9	3248.1	3296.6	2306.7
60°	1961.2	1996.8	2195.4	2406.1	2695.5	2786.5	2710.8	2988.2	3376.6	3460.7	2495.2
62.5°	1400.7	1459.3	1728.4	2064.8	2547.8	2987.0	3173.2	3215.7	3551.3	3650.7	2740.3
65°	708.1	752.4	978.0	1383.3	2035.5	2856.0	3675.8	3713.7	3854.9	3943.2	3117.5
67.5°	430.2	446.9	557.0	769.4	1247.9	2224.7	3839.8	4543.7	4442.5	4489.3	3655.5
70°	317.0	329.4	398.0	511.0	717.7	1305.5	3336.4	5136.1	5069.6	5064.3	4053.1
72°	246.9	255.9	316.6	412.8	524.8	783.2	2418.2	4917.4	5249.1	5222.7	4016.7
72.5°	234.1	242.1	297.3	388.6	495.9	710.0	2174.3	4769.9	5236.1	5224.2	3969.6
75°	184.3	190.0	220.1	300.5	388.1	402.8	1191.4	3696.5	4645.0	4838.1	3570.3
77.5°	152.5	153.4	169.3	218.7	302.6	284.8	585.3	2564.7	3326.1	3538.5	2529.1
80°	124.3	125.3	132.9	153.4	228.9	210.7	277.9	1474.8	1862.3	1864.6	1202.7
82.5°	99.0	99.2	107.6	112.2	164.5	150.7	159.2	692.4	813.8	782.8	432.3
85°	69.7	68.2	105.0	92.1	107.6	96.7	87.9	274.1	336.5	321.8	135.4
87.5°	23.2	24.1	46.7	59.6	62.8	54.8	39.1	105.0	127.0	126.0	42.9
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°	747.6	747.6	747.6	747.6	747.6	747.6	747.6	747.6	747.6	747.6	747.6
2.5°	751.4	744.7	734.9	724.0	715.4	706.6	700.1	696.8	693.0	689.9	693.6
5°	759.3	746.8	725.9	705.4	690.3	676.9	667.3	662.3	657.7	654.5	654.9
7.5°	772.3	752.0	716.9	686.9	666.0	651.6	641.8	638.4	635.5	634.6	635.7
10°	786.1	756.2	704.9	665.2	641.3	629.4	625.0	627.3	629.4	631.3	633.4
12.5°	801.8	760.0	687.6	639.7	619.4	614.8	619.2	629.2	636.5	640.9	643.6
15°	822.3	763.3	667.5	614.1	600.5	605.8	620.6	638.0	650.7	658.9	660.2
17.5°	841.2	763.1	641.8	588.4	585.3	600.5	622.9	647.4	664.6	676.1	678.4
20°	860.6	757.5	611.8	563.3	569.8	594.9	624.0	653.5	674.2	687.6	690.7
22.5°	878.8	747.6	579.0	540.5	556.8	587.3	620.0	649.9	670.6	681.5	684.9
25°	891.2	730.5	545.7	521.2	545.3	578.1	607.0	631.1	646.6	652.0	652.8
27.5°	897.4	708.1	514.3	504.5	533.4	563.1	583.0	594.9	599.3	598.9	598.0
30°	898.3	678.6	487.3	490.9	519.6	540.9	550.3	548.0	542.4	532.7	533.6
32.5°	895.6	645.3	464.7	477.9	502.0	513.9	514.3	503.2	488.2	472.9	468.7
35°	896.4	612.7	444.9	463.3	480.6	485.9	481.1	464.7	444.2	424.6	420.4
37.5°	905.6	584.2	427.7	446.3	457.0	458.2	451.3	434.2	419.1	399.9	398.2
40°	927.6	563.9	411.4	427.3	433.3	434.0	424.1	412.0	413.3	403.0	402.8
42.5°	967.1	555.1	396.9	407.4	411.2	412.4	404.9	397.1	408.0	401.3	399.0
45°	1018.2	557.2	384.8	387.9	394.8	400.7	396.1	386.7	390.9	361.8	352.2
47.5°	1077.2	570.6	375.2	371.2	383.1	394.2	387.1	372.9	358.0	329.1	323.7
50°	1146.2	591.3	366.4	354.7	370.4	385.4	378.3	358.0	335.6	321.6	319.7
52.5°	1218.2	616.6	357.6	336.5	354.3	378.7	375.2	354.7	327.0	313.2	310.7
55°	1299.8	642.2	346.5	315.3	336.9	375.6	373.7	342.5	320.6	312.8	310.9
57.5°	1401.3	671.3	331.9	293.4	320.6	364.3	358.4	335.2	313.9	308.0	307.4
60°	1533.6	714.2	310.7	269.9	300.7	346.9	345.7	324.5	303.2	299.0	298.2
62.5°	1731.9	785.1	281.6	246.5	278.5	317.4	328.9	310.1	291.9	291.7	292.1
65°	2039.5	891.8	250.0	226.0	256.1	292.5	309.5	295.2	280.4	284.6	285.2
67.5°	2396.1	980.3	219.1	205.9	233.3	268.9	291.9	280.4	265.1	276.0	276.2
70°	2514.7	901.2	191.9	186.0	209.7	246.1	272.9	264.1	248.6	259.5	258.4
72°	2340.2	727.5	174.3	171.0	191.9	227.2	255.9	248.8	233.5	240.8	238.1
72.5°	2285.2	693.6	169.9	167.2	187.1	222.4	251.5	245.0	229.8	236.0	233.5
75°	2038.5	602.4	146.1	146.7	163.2	199.0	226.8	224.7	209.0	209.7	208.8
77.5°	1478.5	441.7	123.0	127.2	138.9	174.9	201.9	200.7	183.5	180.4	179.7
80°	686.1	225.4	100.2	102.1	114.2	146.3	172.2	170.5	156.7	152.7	150.4
82.5°	235.0	107.1	75.3	76.6	88.5	117.8	149.4	148.4	136.8	129.1	124.3
85°	83.9	53.4	52.7	51.5	63.2	92.7	130.1	124.5	107.6	91.6	91.2
87.5°	27.2	22.8	27.2	27.0	36.8	62.8	94.6	80.6	78.0	64.9	63.6
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)