

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: P321075

Luminaire Tested: **GAN-SA1B-827-U-AFL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321075
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-29)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA1B-827-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 2700K, 800mA LIGHTSQUARE WITH 16 LEDS AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4513 lumens
Efficiency: N/A
Efficacy: 102.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

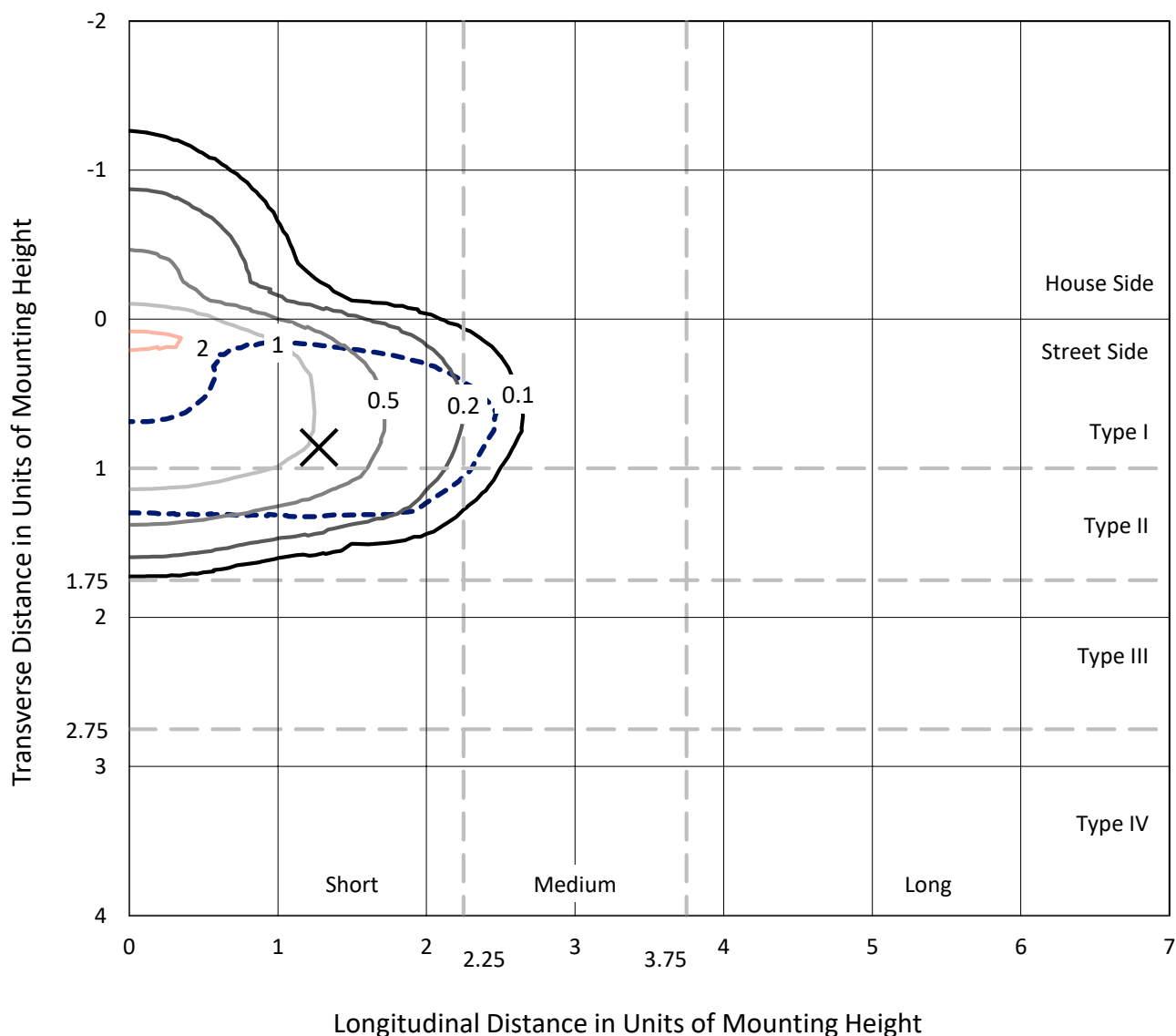
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

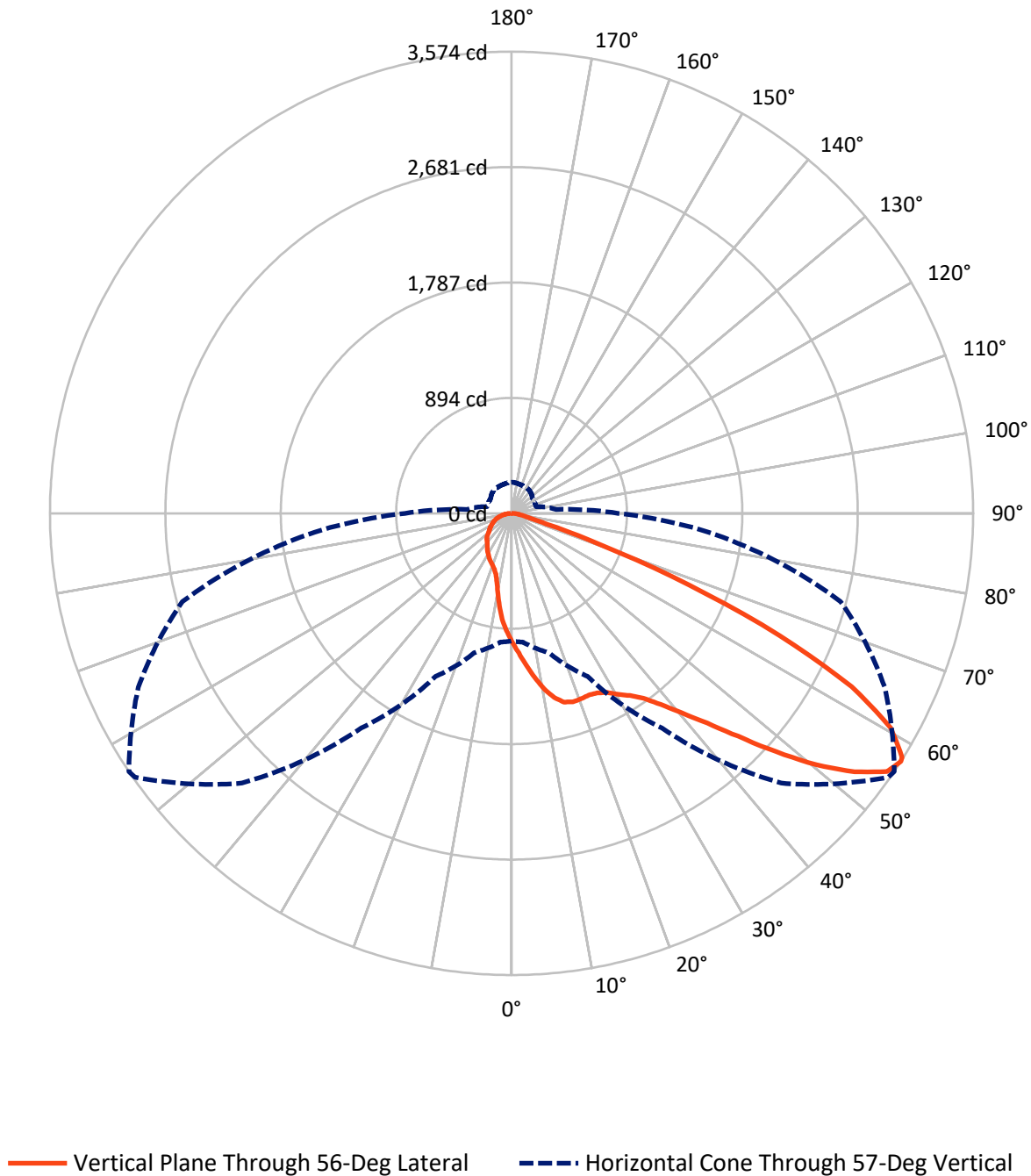
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	777.9	0.0	777.9
	% Fixture	17.2	0.0	17.2
Street Side	Lumens	3735.0	0.0	3735.0
	% Fixture	82.8	0.0	82.8
Total	Lumens	4513.0	0.0	4513.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.6	2.1
10°-20°	270.3	6.0
20°-30°	440.3	9.8
30°-40°	658.2	14.6
40°-50°	998.4	22.1
50°-60°	1119.0	24.8
60°-70°	661.0	14.6
70°-80°	216.6	4.8
80°-90°	53.5	1.2
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°	4513.0	100.0
0°-180°	4513.0	100.0

Coefficient of Utilization



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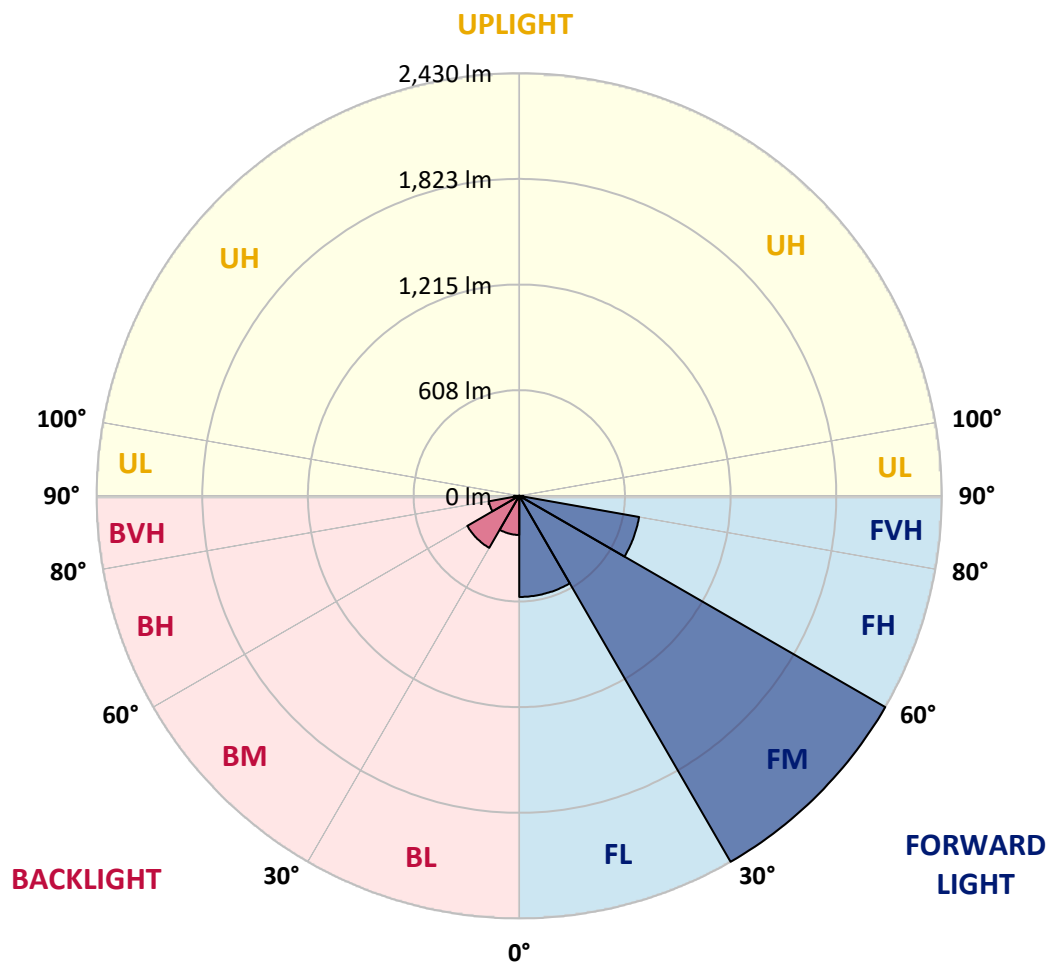
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	581.3	12.9			
FM	(30°-60°)	2430.4	53.9			
FH	(60°-80°)	699.8	15.5			G1/1800
FVH	(80°-90°)	23.6	0.5			G1/100
BL	(0°-30°)	224.9	5.0	B1/500		
BM	(30°-60°)	345.3	7.7	B1/1000		
BH	(60°-80°)	177.8	3.9	B1/500		G1/500
BVH	(80°-90°)	29.9	0.7			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°	56°	65°	75°	85°
0°	1001.0	1001.0	1001.0	1001.0	1001.0	1001.0	1001.0	1001.0	1001.0	1001.0	1001.0
2.5°	1149.4	1160.0	1155.3	1139.2	1126.8	1109.2	1089.7	1083.8	1063.2	1040.1	1012.3
5°	1331.3	1326.1	1318.5	1293.3	1266.8	1236.0	1186.9	1179.2	1133.3	1081.0	1025.8
7.5°	1434.9	1434.5	1430.0	1415.2	1391.1	1350.7	1291.6	1282.5	1213.2	1129.1	1043.5
10°	1419.9	1418.8	1426.3	1441.6	1448.9	1440.5	1390.7	1381.6	1296.4	1182.3	1064.0
12.5°	1334.4	1335.1	1347.0	1379.3	1423.2	1475.9	1467.8	1463.3	1382.8	1242.5	1088.8
15°	1267.9	1269.3	1278.8	1306.8	1358.6	1454.3	1514.7	1516.2	1466.4	1308.9	1117.8
17.5°	1238.7	1241.7	1246.0	1265.7	1313.2	1411.4	1525.8	1534.2	1539.6	1377.7	1145.7
20°	1248.1	1250.8	1252.1	1264.7	1303.6	1385.3	1518.1	1533.1	1595.8	1442.5	1173.6
22.5°	1289.8	1291.5	1292.3	1295.5	1325.8	1392.8	1513.0	1528.8	1636.4	1500.7	1194.7
25°	1358.9	1357.7	1352.7	1348.6	1368.9	1422.2	1524.7	1539.8	1669.4	1553.4	1208.5
27.5°	1441.8	1440.2	1430.6	1419.1	1430.8	1468.1	1558.7	1570.7	1699.1	1602.8	1215.5
30°	1541.2	1537.2	1519.0	1505.4	1509.9	1537.0	1614.7	1625.6	1744.8	1658.7	1222.3
32.5°	1656.1	1651.8	1625.6	1602.9	1602.9	1625.6	1672.4	1681.4	1783.6	1722.0	1233.3
35°	1800.0	1794.6	1760.5	1722.5	1711.8	1723.3	1751.0	1757.4	1853.4	1801.7	1253.3
37.5°	1969.7	1962.4	1918.2	1867.4	1843.9	1843.3	1863.3	1876.3	1964.9	1906.4	1287.3
40°	2139.9	2134.7	2096.1	2056.1	2010.2	1995.5	2026.3	2030.4	2110.7	2036.4	1330.7
42.5°	2271.4	2270.4	2263.3	2268.6	2221.6	2191.8	2216.0	2219.3	2288.7	2177.1	1376.9
45°	2340.9	2342.4	2377.0	2453.6	2471.0	2449.3	2461.2	2462.1	2492.2	2319.0	1419.3
47.5°	2285.2	2293.2	2380.7	2552.1	2694.3	2766.4	2746.6	2758.1	2689.5	2440.9	1452.5
50°	2068.2	2078.1	2227.0	2508.2	2798.5	3073.4	3063.0	3060.3	2848.6	2530.2	1470.5
52.5°	1799.4	1807.2	1930.0	2280.1	2722.1	3243.1	3338.4	3324.8	2990.1	2597.1	1473.9
55°	1390.1	1402.2	1519.9	1824.7	2412.8	3178.2	3541.0	3528.7	3119.0	2632.1	1469.8
57°	988.3	1001.0	1117.9	1392.6	2029.7	2953.8	3561.2	3574.2	3188.6	2638.0	1474.3
57.5°	881.9	894.9	1010.8	1277.5	1910.3	2872.7	3543.8	3565.5	3201.2	2637.1	1476.8
60°	444.0	449.0	522.8	713.1	1207.6	2322.4	3317.2	3373.2	3212.5	2591.5	1487.5
62.5°	276.1	272.5	270.2	328.5	587.5	1540.1	2849.6	2957.4	2995.8	2481.1	1461.6
65°	242.7	236.1	210.5	205.8	259.5	748.0	2145.9	2280.1	2532.9	2307.0	1399.9
67.5°	228.0	221.5	192.6	175.3	175.4	296.5	1332.3	1483.3	1973.1	2012.8	1254.3
70°	212.8	206.9	179.9	159.4	149.4	164.2	612.9	727.6	1286.2	1582.1	1048.3
72.5°	193.2	189.2	163.6	142.5	131.8	123.0	234.7	277.2	744.6	1062.6	728.0
75°	172.8	169.1	147.2	127.0	114.0	96.8	132.1	142.4	378.3	543.6	358.4
77.5°	150.3	148.1	130.9	112.3	101.9	80.2	93.5	98.5	162.2	233.1	179.8
80°	119.6	123.8	114.5	100.0	90.4	64.2	66.2	69.5	94.5	113.8	102.1
82.5°	77.9	85.1	89.6	81.3	74.4	50.6	47.6	49.0	61.6	69.5	44.4
85°	32.4	36.4	58.9	53.2	49.5	36.9	31.9	32.6	38.2	39.5	18.1
87.5°	14.4	15.4	25.9	24.4	20.9	12.7	13.6	14.9	20.3	19.2	7.0
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°	1001.0	1001.0	1001.0	1001.0	1001.0	1001.0	1001.0	1001.0	1001.0	1001.0	1001.0
2.5°	1001.9	988.9	966.6	941.9	921.7	905.6	889.3	878.2	865.1	858.1	854.6
5°	1002.7	977.1	930.1	881.9	838.8	799.4	761.8	733.0	706.0	691.4	687.4
7.5°	1006.0	967.5	891.5	812.1	735.5	665.5	611.5	577.7	553.4	542.5	539.4
10°	1008.6	956.2	843.7	726.2	621.9	551.1	509.2	490.3	481.9	480.5	479.1
12.5°	1014.8	944.5	793.5	636.5	533.7	484.7	470.1	468.9	471.2	474.6	474.6
15°	1024.6	933.1	736.1	559.6	477.5	460.3	463.3	470.1	476.5	481.7	482.5
17.5°	1031.7	918.9	674.4	498.0	447.6	452.3	462.8	472.4	478.9	484.1	484.5
20°	1036.8	897.1	608.4	451.0	430.4	444.8	458.0	466.5	471.0	476.1	476.9
22.5°	1034.2	867.8	550.0	417.4	416.4	434.0	446.5	456.8	453.3	448.4	451.6
25°	1021.5	827.4	489.8	392.2	401.7	419.4	434.9	428.1	416.6	414.4	415.7
27.5°	998.8	775.9	434.1	369.0	384.6	405.9	405.0	398.1	394.1	391.3	393.0
30°	974.5	720.1	385.4	348.7	365.7	383.2	379.7	379.5	375.5	371.0	373.2
32.5°	950.4	664.0	346.8	331.9	351.4	353.8	361.5	363.9	355.9	346.5	345.9
35°	929.5	610.9	317.5	316.7	334.2	334.5	345.9	342.6	322.9	313.1	313.1
37.5°	913.8	558.0	295.1	303.1	311.6	319.7	325.4	311.9	308.6	303.2	303.1
40°	907.0	511.5	281.2	292.7	295.6	305.8	291.1	296.4	297.9	295.1	295.1
42.5°	899.9	471.0	269.1	284.8	284.3	282.9	275.4	282.3	288.5	288.6	288.2
45°	892.7	436.1	258.4	267.9	274.4	259.3	260.7	268.0	276.7	279.8	279.8
47.5°	884.8	408.5	248.6	250.0	260.1	250.0	248.9	254.5	264.7	269.7	270.8
50°	867.5	383.7	237.5	234.3	237.1	240.6	241.5	244.1	255.4	263.4	265.2
52.5°	843.4	361.5	223.2	219.9	219.9	232.8	237.1	237.9	247.5	257.0	258.9
55°	823.4	347.4	208.4	207.8	207.2	224.6	232.0	233.3	239.9	247.4	248.3
57°	824.8	346.3	197.1	197.7	197.6	216.2	227.2	229.9	233.3	239.6	240.7
57.5°	825.6	347.1	194.6	195.0	194.8	213.9	225.8	228.8	231.4	238.1	239.2
60°	837.2	349.1	184.6	181.2	181.9	201.5	217.9	221.6	223.3	232.2	233.6
62.5°	820.0	340.1	176.5	168.3	168.3	188.4	206.9	212.8	215.4	227.4	229.7
65°	770.1	314.8	167.0	153.7	155.3	175.4	193.7	203.3	207.4	222.3	224.7
67.5°	693.0	285.5	157.0	140.7	142.2	161.8	180.1	190.5	196.8	216.7	218.7
70°	592.6	249.7	143.3	126.9	128.7	146.9	163.9	175.7	185.2	211.4	212.0
72.5°	436.9	204.7	124.2	111.7	113.7	129.5	147.7	161.3	174.0	198.2	197.9
75°	259.8	160.1	103.1	96.3	97.7	112.4	132.9	149.5	168.6	193.1	196.0
77.5°	157.6	120.5	84.1	80.6	82.4	97.4	122.4	140.1	166.3	182.1	181.2
80°	95.2	86.1	67.2	65.0	66.7	83.3	113.2	132.9	145.3	155.6	155.6
82.5°	49.8	52.6	49.3	47.6	49.9	67.6	103.0	116.0	128.4	110.3	103.0
85°	20.3	27.5	29.9	29.8	31.2	46.8	88.9	99.3	82.8	78.6	80.5
87.5°	6.8	11.6	14.6	12.6	13.2	29.5	61.6	47.9	56.9	39.7	37.7
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)