

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: P324935

Luminaire Tested: **GAN-SA1D-827-U-AFL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324935
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-30)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA1D-827-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 2700K, 1200mA LIGHTSQUARE WITH 16 LEDS AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4888 lumens
Efficiency: N/A
Efficacy: 73.0 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

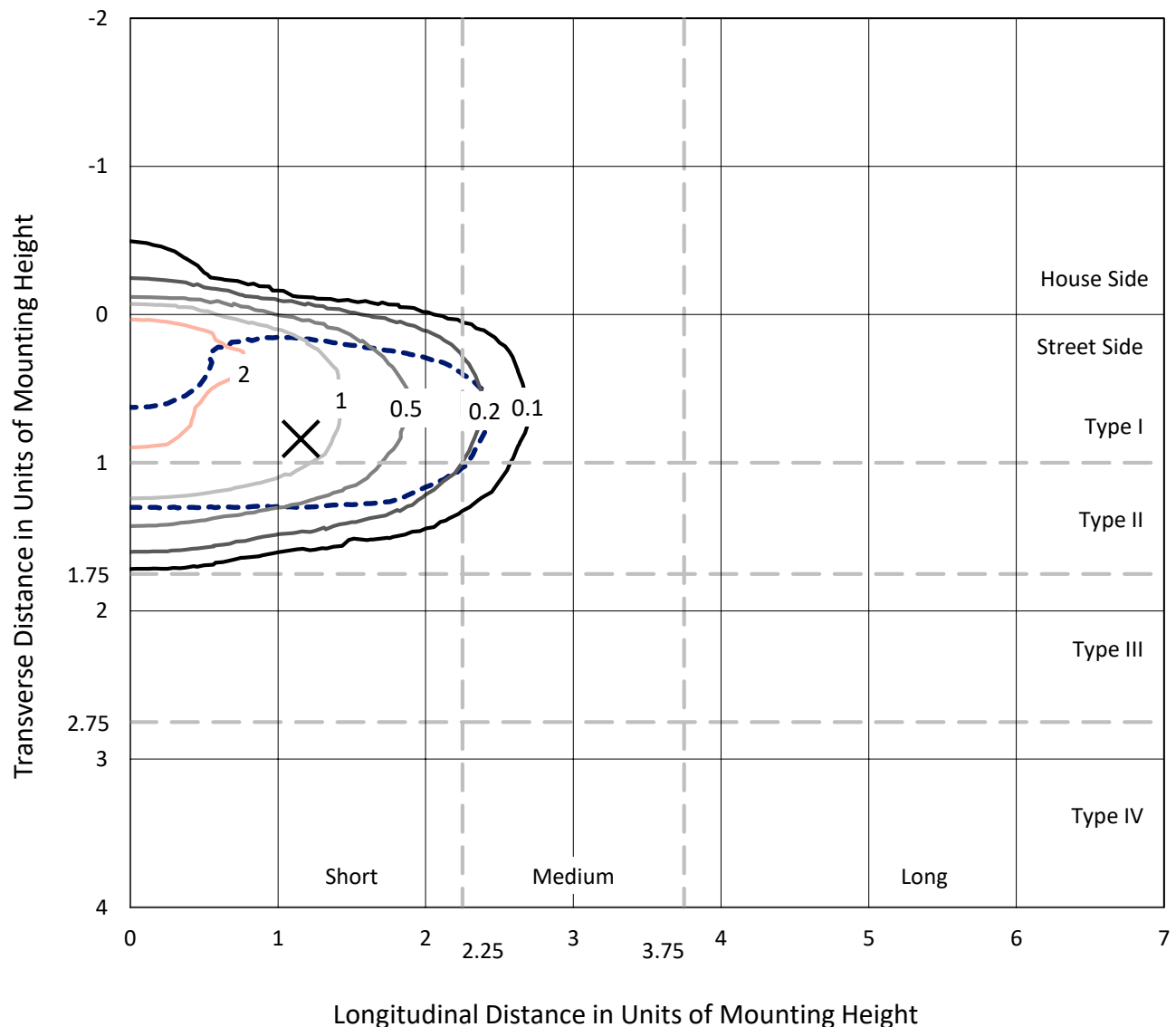
Input Watts (W): 67
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P324935
 CATALOG NUMBER: GAN-SA1D-827-U-AFL-HSS

Iso-Footcandle Lines of Horizontal Illumination

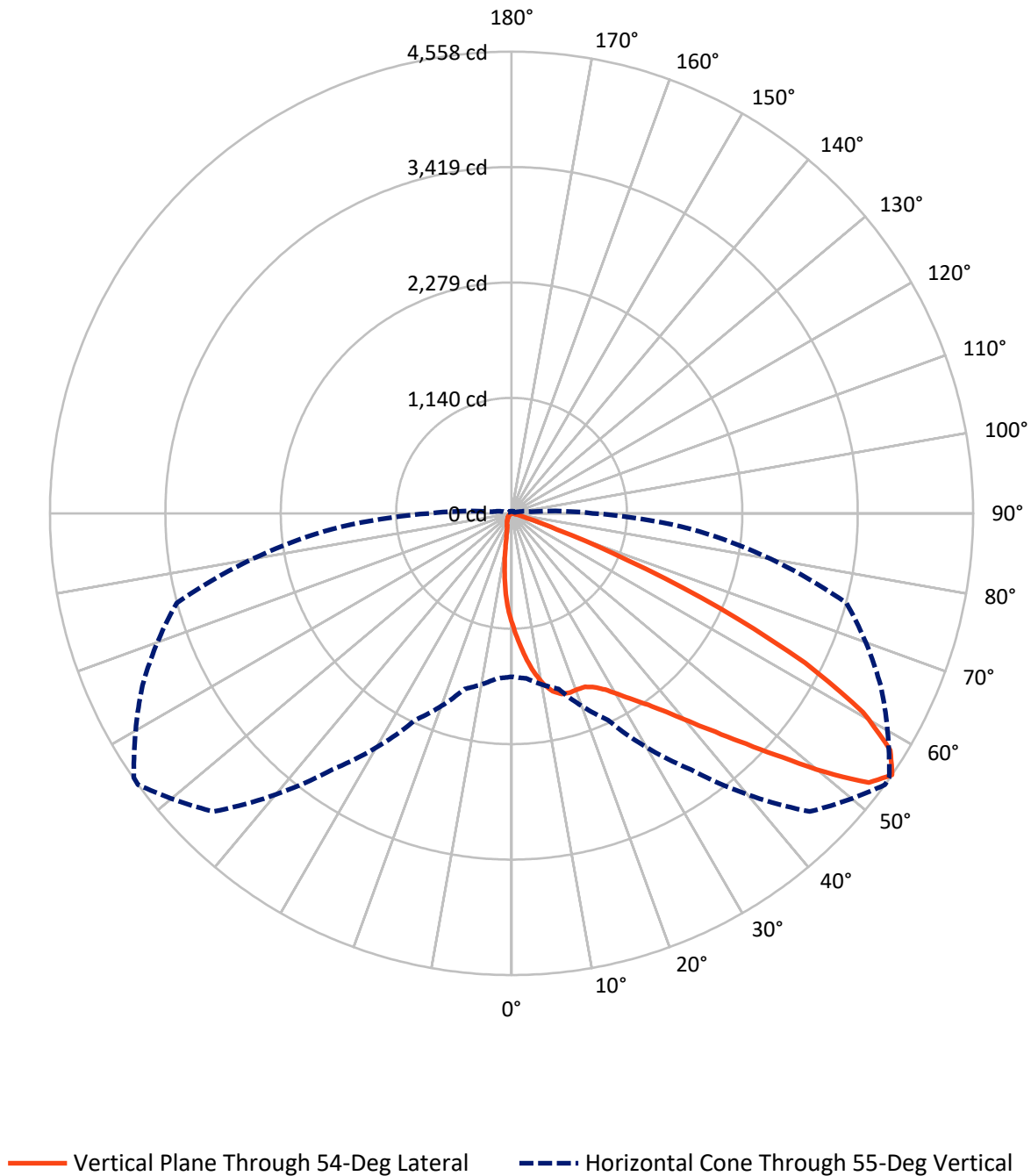
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 fc
 Type II - Short - N/A

REPORT NUMBER: P324935
CATALOG NUMBER: GAN-SA1D-827-U-AFL-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P324935

CATALOG NUMBER: GAN-SA1D-827-U-AFL-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	243.9	0.0	243.9
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	4644.1	0.0	4644.1
	% Fixture	95.0	0.0	95.0
Total	Lumens	4888.0	0.0	4888.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.8	2.1
10°-20°	276.5	5.7
20°-30°	472.0	9.7
30°-40°	757.5	15.5
40°-50°	1210.6	24.8
50°-60°	1297.1	26.5
60°-70°	666.0	13.6
70°-80°	100.9	2.1
80°-90°	6.6	0.1
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°	4888.0	100.0
0°-180°	4888.0	100.0

Coefficient of Utilization



REPORT NUMBER: P324935

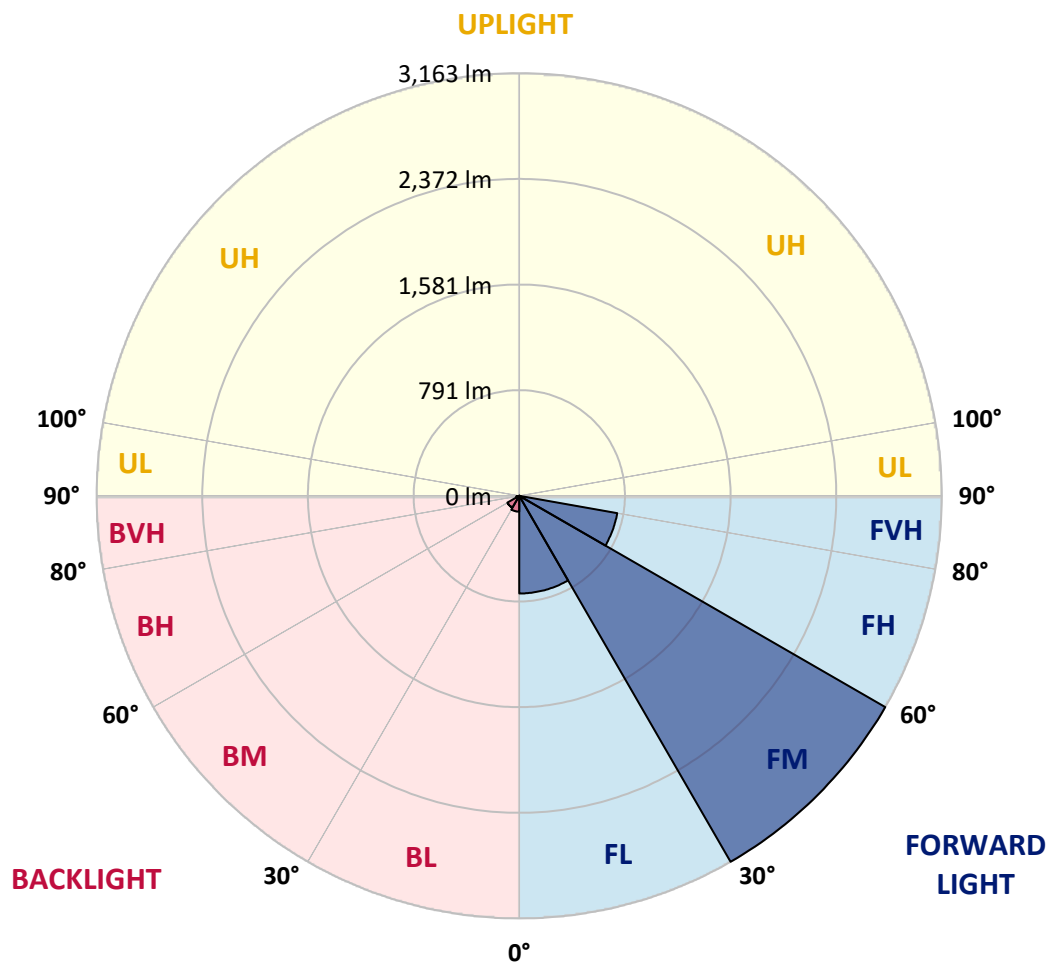
CATALOG NUMBER: GAN-SA1D-827-U-AFL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	730.7	14.9			
FM	(30°-60°)	3162.8	64.7			
FH	(60°-80°)	744.4	15.2			G1/1800
FVH	(80°-90°)	6.3	0.1			G0/10
BL	(0°-30°)	118.7	2.4	B1/500		
BM	(30°-60°)	102.5	2.1	B0/220		
BH	(60°-80°)	22.5	0.5	B0/110		G0/110
BVH	(80°-90°)	0.3	0.0			G0/10
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



REPORT NUMBER: P324935

CATALOG NUMBER: GAN-SA1D-827-U-AFL-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	1094.7	1094.7	1094.7	1094.7	1094.7	1094.7	1094.7	1094.7	1094.7	1094.7	1094.7
2.5°	1373.8	1353.3	1353.9	1344.6	1310.7	1284.1	1256.4	1249.9	1206.8	1161.6	1118.1
5°	1611.3	1596.3	1592.7	1574.7	1527.5	1477.4	1423.8	1411.4	1327.1	1234.7	1143.7
7.5°	1733.3	1733.5	1730.5	1724.0	1694.4	1645.9	1580.4	1567.3	1452.7	1314.0	1170.3
10°	1697.8	1705.8	1722.3	1744.0	1766.6	1760.5	1711.3	1699.5	1574.9	1398.1	1199.8
12.5°	1615.1	1616.1	1634.5	1670.1	1735.2	1801.9	1802.7	1798.7	1691.7	1485.9	1232.3
15°	1573.9	1577.9	1584.7	1607.7	1669.3	1776.1	1852.5	1858.2	1798.7	1579.2	1267.0
17.5°	1600.9	1606.6	1600.9	1603.7	1639.3	1735.4	1861.2	1875.8	1892.2	1671.4	1299.7
20°	1674.2	1679.4	1669.3	1658.1	1665.1	1723.6	1855.1	1874.7	1965.5	1753.3	1327.1
22.5°	1772.9	1775.1	1759.7	1741.3	1736.2	1763.7	1860.1	1880.4	2024.1	1827.4	1344.4
25°	1881.7	1883.6	1864.4	1843.2	1831.2	1842.4	1901.7	1916.9	2075.9	1898.1	1354.4
27.5°	2000.1	2001.8	1977.7	1951.7	1937.8	1938.2	1970.3	1986.6	2131.0	1978.8	1362.4
30°	2125.3	2124.4	2102.3	2066.2	2048.4	2048.0	2069.1	2085.6	2210.8	2082.2	1373.4
32.5°	2265.8	2264.2	2232.7	2188.0	2167.9	2170.9	2189.6	2199.1	2309.8	2192.4	1393.0
35°	2451.0	2446.1	2398.6	2343.1	2306.2	2305.1	2320.9	2328.5	2436.0	2325.8	1425.7
37.5°	2691.2	2686.8	2622.4	2541.7	2489.8	2470.4	2489.2	2498.9	2616.0	2497.0	1478.3
40°	2928.0	2923.6	2885.4	2811.5	2731.5	2684.9	2699.6	2710.0	2840.9	2704.7	1544.5
42.5°	3091.4	3095.2	3108.5	3114.6	3039.7	2941.8	2948.5	2959.3	3077.1	2926.8	1620.3
45°	3134.5	3142.7	3217.9	3365.4	3393.5	3317.1	3246.4	3252.3	3317.1	3148.8	1696.1
47.5°	3005.1	3020.3	3165.3	3439.7	3677.4	3731.4	3597.6	3589.8	3547.4	3328.5	1749.9
50°	2711.0	2725.0	2912.8	3318.8	3763.5	4127.0	4018.5	3995.5	3749.4	3435.9	1768.9
52.5°	2285.5	2302.4	2455.0	2938.0	3601.2	4303.5	4417.1	4397.9	3897.6	3444.4	1772.1
55°	1614.0	1634.5	1796.0	2251.7	3086.8	4163.1	4558.3	4552.6	4020.6	3422.0	1778.9
57.5°	907.1	921.8	1096.0	1443.4	2260.8	3626.1	4410.7	4448.5	4094.9	3383.1	1789.0
60°	402.8	406.8	496.9	718.6	1323.5	2771.2	3988.3	4052.1	4031.2	3331.2	1806.1
62.5°	223.3	220.0	220.0	298.7	575.2	1715.5	3252.3	3357.6	3759.1	3269.8	1806.9
65°	175.0	171.8	162.8	164.0	219.1	761.4	2252.1	2439.4	3242.4	3089.7	1746.1
67.5°	148.4	145.7	136.6	133.0	136.2	251.2	1237.4	1431.8	2460.3	2621.7	1512.5
70°	125.4	123.5	118.8	114.4	106.4	124.1	473.5	605.6	1516.1	1744.0	1032.4
72.5°	100.9	100.1	101.7	97.9	88.2	82.7	161.9	196.1	681.0	778.3	425.3
75°	87.0	86.5	87.4	83.6	72.6	57.6	82.3	89.9	192.1	190.4	86.1
77.5°	56.6	57.2	72.4	70.7	62.5	38.4	42.6	46.0	58.3	43.7	26.2
80°	36.1	35.7	36.7	58.7	56.2	29.3	21.3	22.4	28.1	21.5	12.7
82.5°	22.0	21.5	24.1	27.4	28.3	20.5	13.1	13.3	17.5	13.9	6.8
85°	1.9	2.5	14.6	13.5	9.7	6.3	6.3	6.8	9.3	8.2	3.8
87.5°	0.0	0.0	2.5	3.8	2.1	2.3	2.3	2.5	3.6	3.6	1.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P324935

CATALOG NUMBER: GAN-SA1D-827-U-AFL-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1094.7	1094.7	1094.7	1094.7	1094.7	1094.7	1094.7	1094.7	1094.7	1094.7	1094.7
2.5°	1095.6	1073.6	1029.3	986.6	950.5	915.7	876.0	836.8	818.4	811.0	803.4
5°	1097.5	1052.3	960.9	868.8	773.4	687.5	614.3	539.1	501.6	485.1	477.5
7.5°	1100.0	1031.2	883.4	728.9	575.2	458.7	357.0	291.5	263.2	258.8	247.8
10°	1100.4	1005.6	793.5	574.4	385.7	276.5	212.8	179.0	166.6	164.4	160.9
12.5°	1101.3	975.4	693.6	425.3	257.1	184.9	153.9	142.7	139.3	139.1	139.1
15°	1103.8	943.8	590.0	306.5	184.7	146.5	135.1	130.7	129.4	130.0	129.8
17.5°	1103.8	906.4	488.3	228.4	149.2	131.7	125.4	122.4	122.0	122.6	122.9
20°	1095.8	861.0	395.0	177.7	132.4	122.2	116.5	113.8	112.7	113.1	113.4
22.5°	1076.6	805.3	319.0	147.1	121.2	113.6	107.4	103.2	101.5	101.7	101.7
25°	1046.6	739.2	249.5	127.3	112.1	104.3	97.1	92.2	91.2	91.0	91.4
27.5°	1008.2	666.2	198.6	112.1	101.3	93.9	86.8	82.7	81.9	82.1	82.3
30°	970.4	590.4	156.6	99.2	89.3	82.3	76.8	74.9	74.9	75.6	75.8
32.5°	935.8	517.6	123.9	88.0	78.5	72.2	69.0	68.8	69.9	70.3	70.5
35°	906.0	450.3	102.6	79.4	70.1	64.6	63.5	64.4	65.6	66.5	66.7
37.5°	884.9	390.1	89.7	72.2	63.5	59.1	58.9	60.6	62.3	64.2	64.6
40°	876.0	339.2	80.8	65.9	58.3	54.9	54.3	56.6	59.7	62.5	62.9
42.5°	868.6	297.6	73.2	59.7	54.0	49.2	49.0	51.9	55.7	58.5	59.1
45°	862.3	264.3	66.3	53.2	48.6	42.2	42.9	46.7	49.6	52.6	53.2
47.5°	849.2	236.8	58.7	46.2	40.1	36.1	37.4	40.7	43.1	47.5	48.1
50°	825.8	214.5	50.9	37.8	32.7	31.2	33.1	35.5	38.4	42.2	42.6
52.5°	810.0	197.6	44.1	31.7	27.0	27.4	29.3	30.2	31.9	33.4	32.9
55°	800.9	188.3	38.6	27.4	23.0	24.3	24.7	23.6	22.8	21.3	20.7
57.5°	799.8	179.8	34.4	23.9	20.3	20.9	19.4	15.8	12.9	11.2	10.8
60°	798.1	169.5	31.0	20.1	17.9	17.1	13.9	8.7	6.1	5.7	5.7
62.5°	779.8	153.5	28.5	16.9	15.2	12.9	8.0	4.0	3.4	3.6	3.6
65°	721.3	131.1	26.0	13.7	12.0	9.3	4.0	2.3	1.3	1.5	1.5
67.5°	613.2	104.5	23.2	10.6	9.1	5.9	2.3	1.1	0.0	0.0	0.0
70°	410.6	64.8	19.6	7.4	5.9	3.6	1.7	0.2	0.0	0.0	0.0
72.5°	157.5	35.0	15.8	4.4	3.8	2.5	1.1	0.0	0.0	0.0	0.0
75°	35.5	23.0	11.0	3.2	2.7	1.7	0.4	0.0	0.0	0.0	0.0
77.5°	13.5	16.7	6.3	2.1	1.9	1.1	0.0	0.0	0.0	0.0	0.0
80°	6.5	9.9	3.0	1.3	1.1	0.4	0.0	0.0	0.0	0.0	0.0
82.5°	3.4	3.8	1.3	0.6	0.4	0.0	0.0	0.0	0.0	0.0	0.0
85°	1.9	1.9	0.6	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.1	0.6	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)