

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: P324706

Luminaire Tested: **GAN-SA2A-727-U-AFL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324706
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-SA2A-727-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6528 lumens
Efficiency: N/A
Efficacy: 98.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

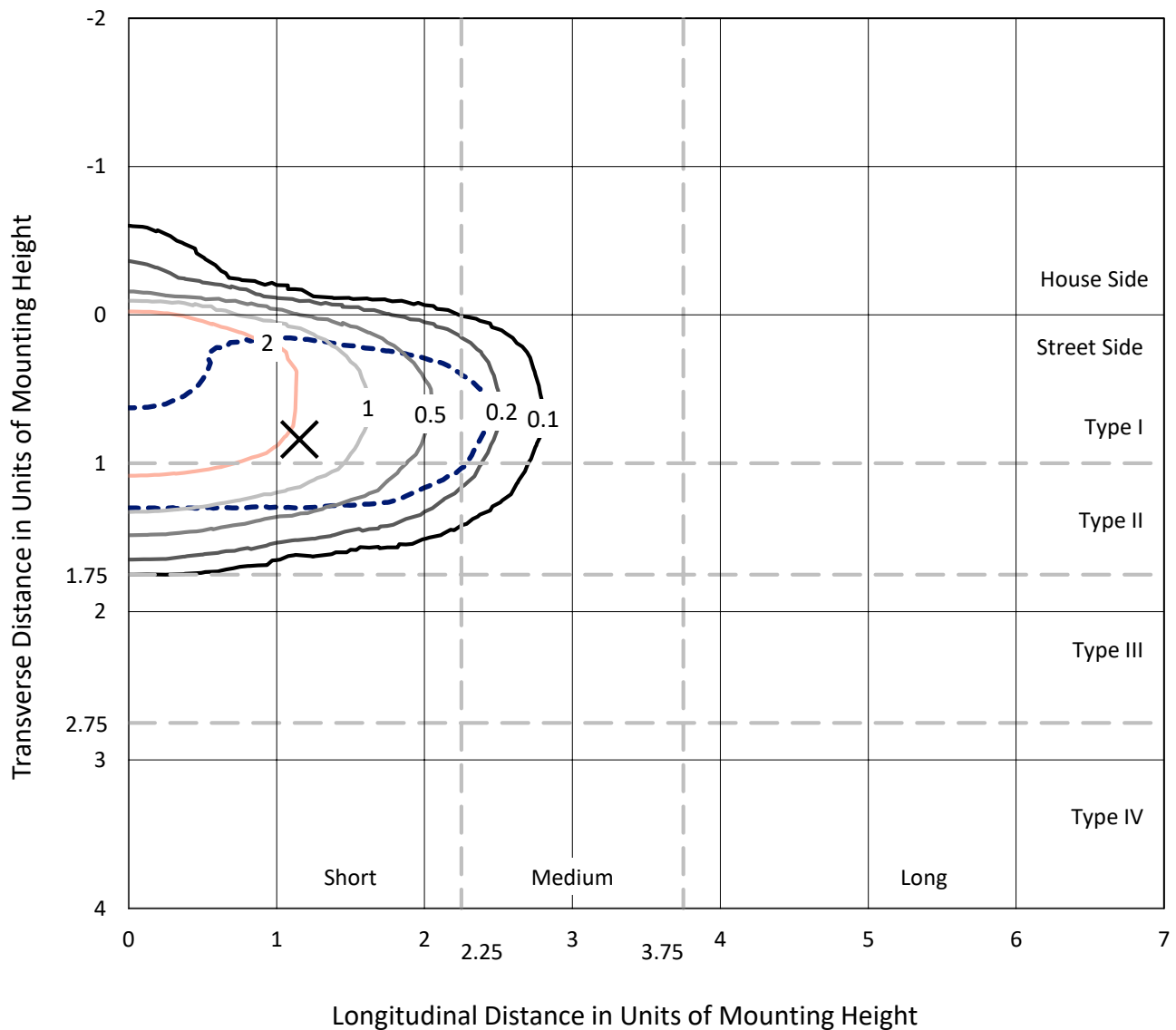
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P324706
 CATALOG NUMBER: GAN-SA2A-727-U-AFL-HSS

Iso-Footcandle Lines of Horizontal Illumination

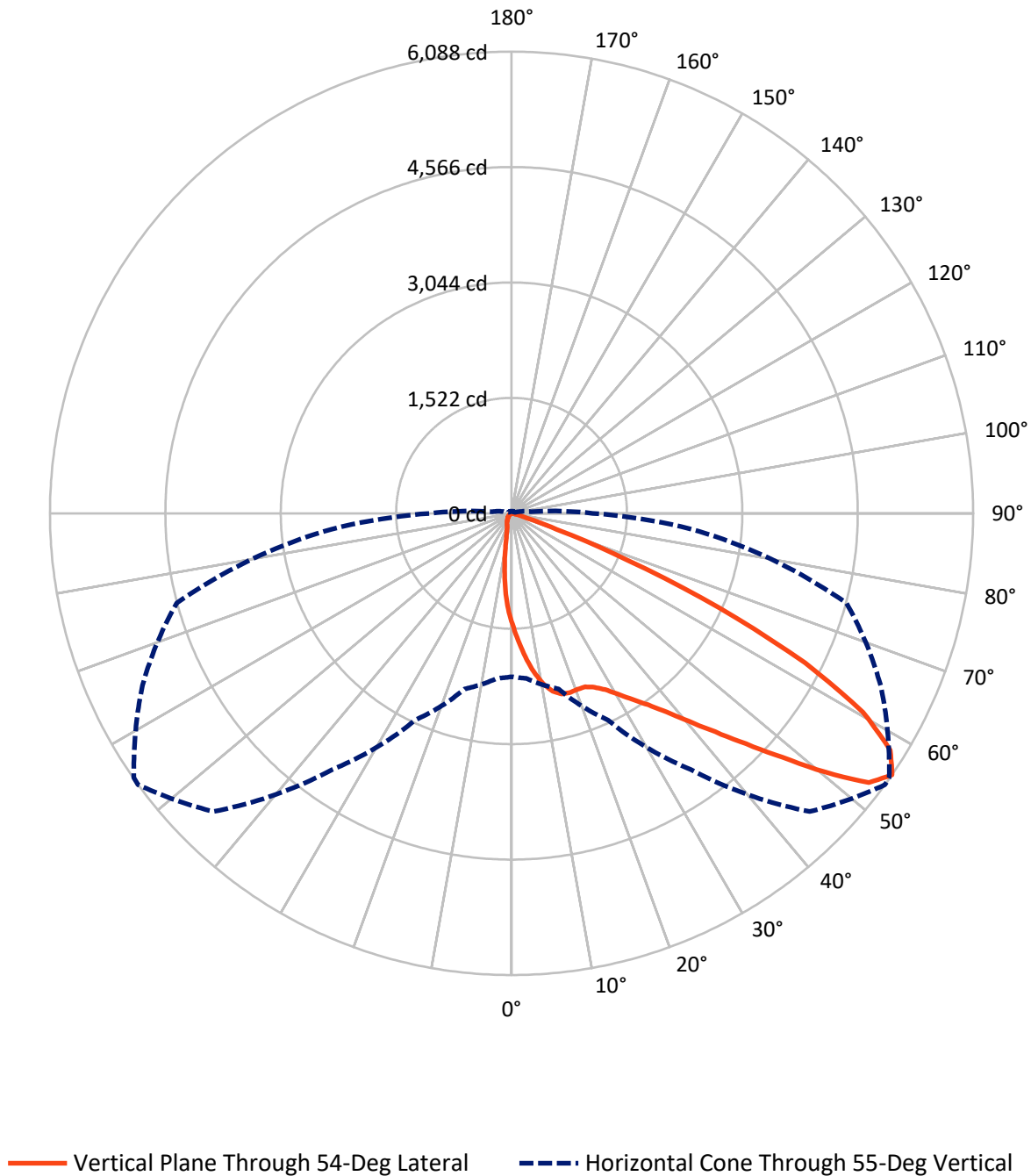
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 fc
 Type II - Short - N/A

REPORT NUMBER: P324706
CATALOG NUMBER: GAN-SA2A-727-U-AFL-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P324706

CATALOG NUMBER: GAN-SA2A-727-U-AFL-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	325.7	0.0	325.7
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	6202.3	0.0	6202.3
	% Fixture	95.0	0.0	95.0
Total	Lumens	6528.0	0.0	6528.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.6	2.1
10°-20°	369.2	5.7
20°-30°	630.4	9.7
30°-40°	1011.7	15.5
40°-50°	1616.7	24.8
50°-60°	1732.3	26.5
60°-70°	889.4	13.6
70°-80°	134.7	2.1
80°-90°	8.8	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°	6528.0	100.0
0°-180°	6528.0	100.0

Coefficient of Utilization



REPORT NUMBER: P324706

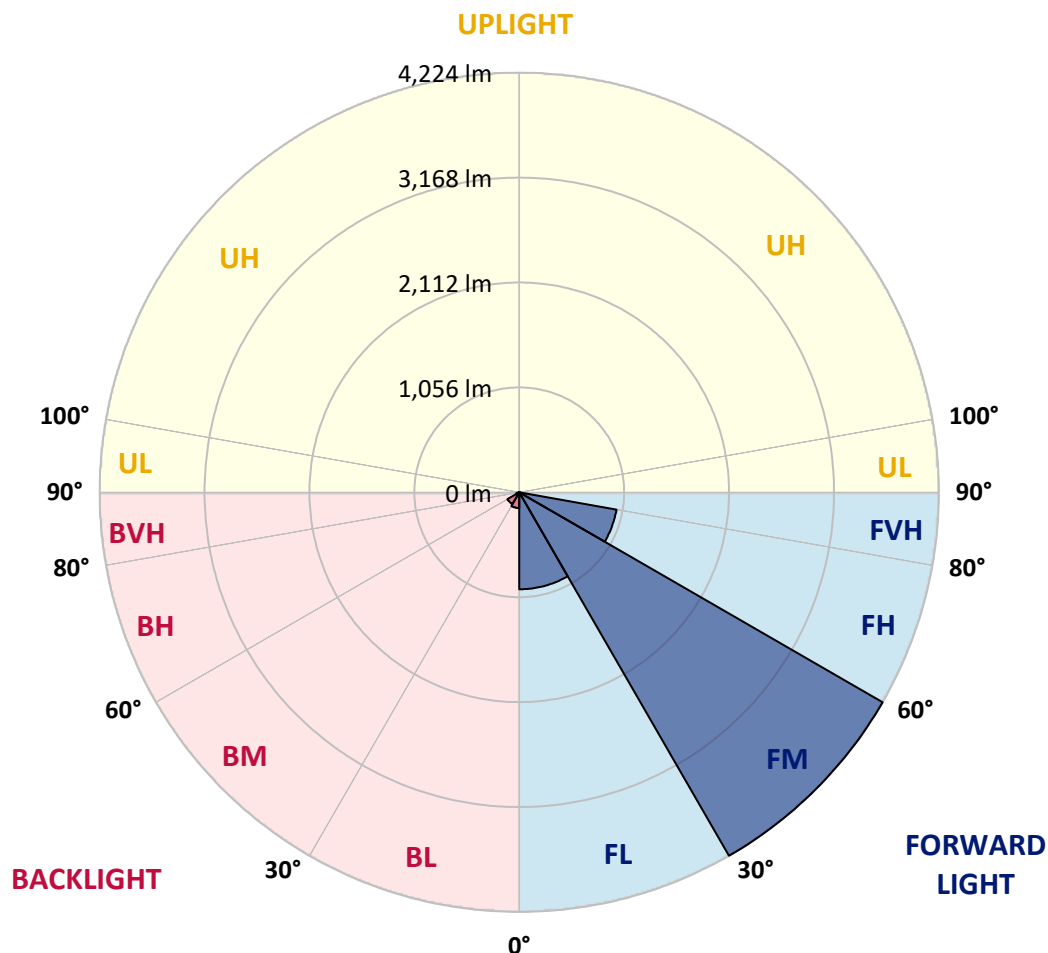
CATALOG NUMBER: GAN-SA2A-727-U-AFL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	975.8	14.9			
FM	(30°-60°)	4223.9	64.7			
FH	(60°-80°)	994.2	15.2			G1/1800
FVH	(80°-90°)	8.4	0.1			G0/10
BL	(0°-30°)	158.5	2.4	B1/500		
BM	(30°-60°)	136.9	2.1	B0/220		
BH	(60°-80°)	30.0	0.5	B0/110		G0/110
BVH	(80°-90°)	0.4	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: P324706

CATALOG NUMBER: GAN-SA2A-727-U-AFL-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	1462.0	1462.0	1462.0	1462.0	1462.0	1462.0	1462.0	1462.0	1462.0	1462.0	1462.0
2.5°	1834.7	1807.4	1808.2	1795.8	1750.4	1714.9	1678.0	1669.2	1611.7	1551.4	1493.3
5°	2151.9	2131.8	2127.0	2103.1	2039.9	1973.1	1901.5	1884.9	1772.4	1648.9	1527.4
7.5°	2314.8	2315.1	2311.1	2302.4	2262.9	2198.1	2110.7	2093.2	1940.1	1754.9	1562.9
10°	2267.4	2278.2	2300.1	2329.2	2359.3	2351.2	2285.5	2269.7	2103.4	1867.1	1602.4
12.5°	2156.9	2158.3	2182.9	2230.5	2317.3	2406.4	2407.6	2402.2	2259.3	1984.4	1645.8
15°	2102.0	2107.3	2116.3	2147.1	2229.4	2372.0	2474.1	2481.7	2402.2	2109.0	1692.1
17.5°	2138.0	2145.7	2138.0	2141.7	2189.4	2317.6	2485.6	2505.1	2527.1	2232.2	1735.7
20°	2235.9	2242.9	2229.4	2214.4	2223.7	2301.8	2477.5	2503.7	2624.9	2341.6	1772.4
22.5°	2367.8	2370.6	2350.0	2325.5	2318.7	2355.4	2484.2	2511.3	2703.3	2440.5	1795.5
25°	2513.0	2515.5	2489.9	2461.7	2445.6	2460.6	2539.8	2560.1	2772.3	2535.0	1808.8
27.5°	2671.1	2673.4	2641.3	2606.6	2588.0	2588.5	2631.4	2653.1	2845.9	2642.7	1819.5
30°	2838.3	2837.2	2807.6	2759.4	2735.7	2735.1	2763.3	2785.3	2952.5	2780.8	1834.1
32.5°	3026.1	3023.8	2981.8	2922.0	2895.3	2899.2	2924.3	2937.0	3084.7	2928.0	1860.4
35°	3273.3	3266.8	3203.4	3129.3	3079.9	3078.5	3099.7	3109.8	3253.3	3106.1	1904.1
37.5°	3594.1	3588.2	3502.2	3394.5	3325.2	3299.2	3324.3	3337.3	3493.8	3334.8	1974.2
40°	3910.4	3904.5	3853.5	3754.8	3648.0	3585.7	3605.4	3619.2	3794.0	3612.2	2062.8
42.5°	4128.6	4133.7	4151.5	4159.7	4059.6	3928.8	3937.8	3952.2	4109.5	3908.7	2164.0
45°	4186.2	4197.1	4297.5	4494.6	4532.1	4430.0	4335.6	4343.5	4430.0	4205.3	2265.2
47.5°	4013.3	4033.6	4227.3	4593.8	4911.2	4983.4	4804.7	4794.2	4737.6	4445.2	2337.1
50°	3620.6	3639.2	3890.1	4432.3	5026.3	5511.7	5366.8	5336.1	5007.4	4588.7	2362.4
52.5°	3052.3	3074.8	3278.7	3923.7	4809.5	5747.4	5899.1	5873.4	5205.3	4600.0	2366.7
55°	2155.5	2182.9	2398.5	3007.2	4122.4	5559.9	6087.7	6080.1	5369.6	4570.1	2375.7
57.5°	1211.4	1231.1	1463.7	1927.7	3019.3	4842.7	5890.6	5941.1	5468.9	4518.2	2389.2
60°	537.9	543.2	663.6	959.6	1767.6	3701.0	5326.5	5411.6	5383.7	4448.9	2412.1
62.5°	298.3	293.8	293.8	398.9	768.2	2291.1	4343.5	4484.1	5020.3	4366.9	2413.2
65°	233.7	229.5	217.4	219.0	292.6	1016.9	3007.7	3257.8	4330.2	4126.4	2332.0
67.5°	198.2	194.5	182.4	177.6	181.8	335.5	1652.6	1912.2	3285.7	3501.4	2019.9
70°	167.5	164.9	158.7	152.8	142.1	165.8	632.3	808.8	2024.7	2329.2	1378.8
72.5°	134.8	133.6	135.9	130.8	117.8	110.5	216.2	261.9	909.5	1039.4	568.1
75°	116.1	115.6	116.7	111.6	97.0	77.0	109.9	120.1	256.5	254.3	115.0
77.5°	75.6	76.4	96.7	94.4	83.4	51.3	56.9	61.5	77.8	58.4	35.0
80°	48.2	47.6	49.1	78.4	75.0	39.2	28.5	29.9	37.5	28.8	16.9
82.5°	29.3	28.8	32.1	36.6	37.8	27.3	17.5	17.8	23.4	18.6	9.0
85°	2.5	3.4	19.5	18.0	13.0	8.5	8.5	9.0	12.4	11.0	5.1
87.5°	0.0	0.0	3.4	5.1	2.8	3.1	3.1	3.4	4.8	4.8	2.5
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: P324706

CATALOG NUMBER: GAN-SA2A-727-U-AFL-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1462.0	1462.0	1462.0	1462.0	1462.0	1462.0	1462.0	1462.0	1462.0	1462.0	1462.0
2.5°	1463.1	1433.8	1374.6	1317.7	1269.5	1222.9	1169.9	1117.5	1093.0	1083.1	1073.0
5°	1465.7	1405.3	1283.3	1160.4	1032.9	918.2	820.4	720.0	669.8	647.8	637.7
7.5°	1469.1	1377.2	1179.8	973.5	768.2	612.6	476.7	389.3	351.5	345.6	331.0
10°	1469.6	1343.0	1059.7	767.1	515.1	369.3	284.2	239.1	222.4	219.6	214.8
12.5°	1470.7	1302.7	926.4	568.1	343.4	247.0	205.5	190.6	186.1	185.8	185.8
15°	1474.1	1260.4	788.0	409.3	246.7	195.6	180.4	174.5	172.8	173.7	173.4
17.5°	1474.1	1210.5	652.1	305.0	199.3	175.9	167.5	163.5	162.9	163.8	164.1
20°	1463.4	1149.9	527.5	237.4	176.8	163.2	155.6	152.0	150.5	151.1	151.4
22.5°	1437.8	1075.5	426.0	196.5	161.8	151.7	143.5	137.9	135.6	135.9	135.9
25°	1397.7	987.3	333.2	170.0	149.7	139.3	129.7	123.2	121.8	121.5	122.1
27.5°	1346.4	889.7	265.3	149.7	135.3	125.5	115.9	110.5	109.4	109.7	109.9
30°	1296.0	788.5	209.2	132.5	119.2	109.9	102.6	100.1	100.1	100.9	101.2
32.5°	1249.7	691.3	165.5	117.6	104.9	96.4	92.2	91.9	93.3	93.9	94.2
35°	1210.0	601.3	137.0	106.0	93.6	86.3	84.9	86.0	87.7	88.8	89.1
37.5°	1181.8	521.0	119.8	96.4	84.9	78.9	78.7	80.9	83.2	85.7	86.3
40°	1169.9	453.0	108.0	88.0	77.8	73.3	72.5	75.6	79.8	83.4	84.0
42.5°	1160.1	397.5	97.8	79.8	72.2	65.7	65.4	69.4	74.4	78.1	78.9
45°	1151.6	353.0	88.5	71.0	64.8	56.4	57.2	62.3	66.2	70.2	71.0
47.5°	1134.1	316.3	78.4	61.7	53.6	48.2	49.9	54.4	57.5	63.4	64.3
50°	1102.9	286.4	67.9	50.5	43.7	41.7	44.3	47.4	51.3	56.4	56.9
52.5°	1081.7	263.9	58.9	42.3	36.1	36.6	39.2	40.3	42.6	44.5	44.0
55°	1069.6	251.5	51.6	36.6	30.7	32.4	33.0	31.6	30.4	28.5	27.6
57.5°	1068.2	240.2	46.0	31.9	27.1	27.9	25.9	21.1	17.2	14.9	14.4
60°	1065.9	226.4	41.4	26.8	24.0	22.8	18.6	11.6	8.2	7.6	7.6
62.5°	1041.4	205.0	38.1	22.6	20.3	17.2	10.7	5.4	4.5	4.8	4.8
65°	963.3	175.1	34.7	18.3	16.1	12.4	5.4	3.1	1.7	2.0	2.0
67.5°	819.0	139.5	31.0	14.1	12.1	7.9	3.1	1.4	0.0	0.0	0.0
70°	548.3	86.5	26.2	9.9	7.9	4.8	2.3	0.3	0.0	0.0	0.0
72.5°	210.3	46.8	21.1	5.9	5.1	3.4	1.4	0.0	0.0	0.0	0.0
75°	47.4	30.7	14.7	4.2	3.7	2.3	0.6	0.0	0.0	0.0	0.0
77.5°	18.0	22.3	8.5	2.8	2.5	1.4	0.0	0.0	0.0	0.0	0.0
80°	8.7	13.2	3.9	1.7	1.4	0.6	0.0	0.0	0.0	0.0	0.0
82.5°	4.5	5.1	1.7	0.8	0.6	0.0	0.0	0.0	0.0	0.0	0.0
85°	2.5	2.5	0.8	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.4	0.8	0.3	0.3	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)