

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: P324716

Luminaire Tested: **GAN-SA2B-727-U-AFL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324716
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-SA2B-727-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 800mA 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: 8004 lumens
Efficiency: N/A
Efficacy: 94.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

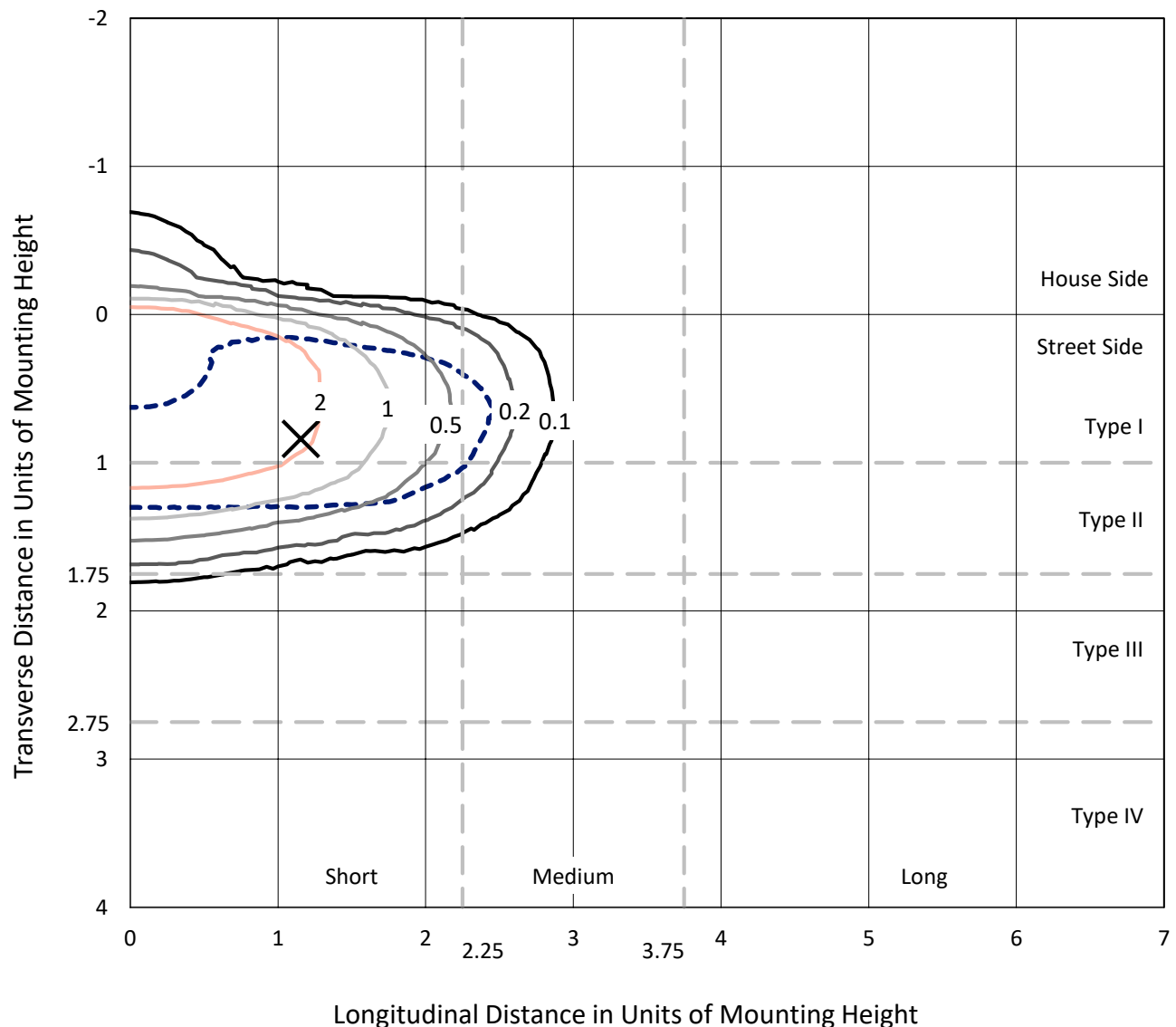
Input Watts (W): 85
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P324716
 CATALOG NUMBER: GAN-SA2B-727-U-AFL-HSS

Iso-Footcandle Lines of Horizontal Illumination

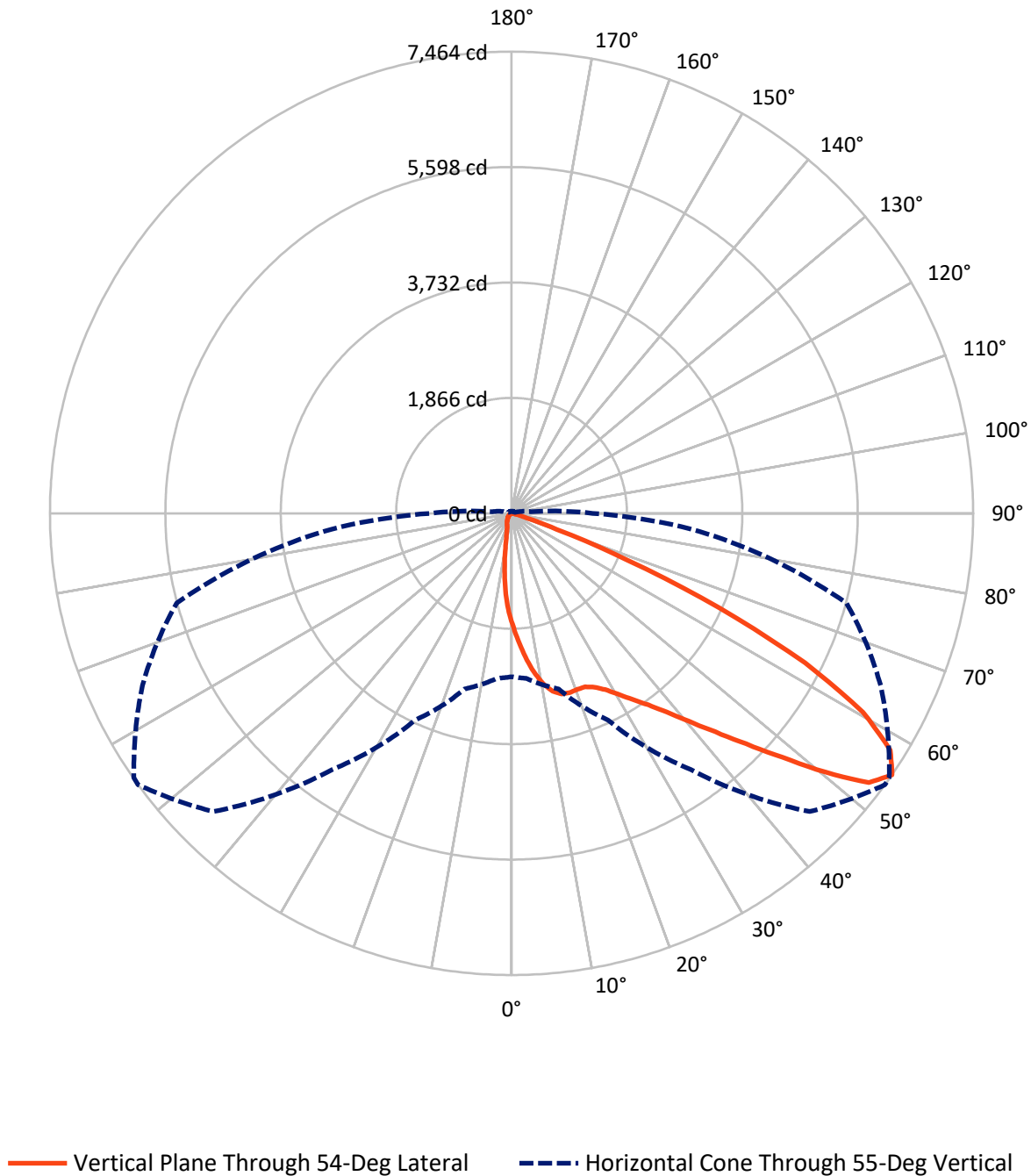
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 fc
 Type II - Short - N/A

REPORT NUMBER: P324716
CATALOG NUMBER: GAN-SA2B-727-U-AFL-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P324716

CATALOG NUMBER: GAN-SA2B-727-U-AFL-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	399.3	0.0	399.3
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	7604.7	0.0	7604.7
	% Fixture	95.0	0.0	95.0
Total	Lumens	8004.0	0.0	8004.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	165.1	2.1
10°-20°	452.7	5.7
20°-30°	773.0	9.7
30°-40°	1240.5	15.5
40°-50°	1982.3	24.8
50°-60°	2124.0	26.5
60°-70°	1090.5	13.6
70°-80°	165.2	2.1
80°-90°	10.8	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°	8004.0	100.0
0°-180°	8004.0	100.0

Coefficient of Utilization



REPORT NUMBER: P324716

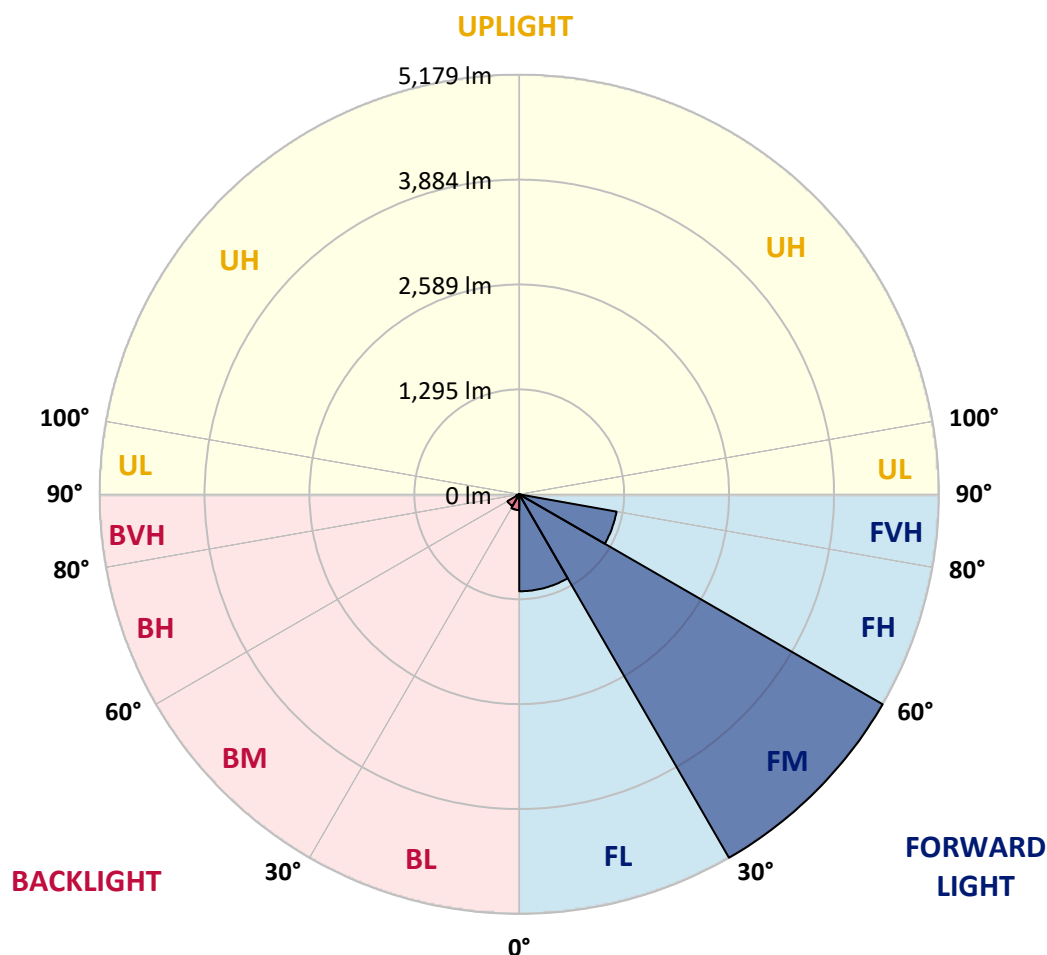
CATALOG NUMBER: GAN-SA2B-727-U-AFL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1196.5	14.9			
FM	(30°-60°)	5178.9	64.7			
FH	(60°-80°)	1218.9	15.2			G1/1800
FVH	(80°-90°)	10.3	0.1			G1/100
BL	(0°-30°)	194.3	2.4	B1/500		
BM	(30°-60°)	167.8	2.1	B0/220		
BH	(60°-80°)	36.8	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: P324716

CATALOG NUMBER: GAN-SA2B-727-U-AFL-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	1792.6	1792.6	1792.6	1792.6	1792.6	1792.6	1792.6	1792.6	1792.6	1792.6	1792.6
2.5°	2249.5	2216.0	2217.0	2201.8	2146.2	2102.6	2057.3	2046.6	1976.1	1902.1	1830.9
5°	2638.4	2613.9	2608.0	2578.6	2501.2	2419.3	2331.5	2311.1	2173.1	2021.7	1872.8
7.5°	2838.2	2838.5	2833.7	2823.0	2774.6	2695.1	2587.9	2566.5	2378.8	2151.7	1916.3
10°	2780.1	2793.3	2820.2	2855.8	2892.8	2882.8	2802.2	2782.9	2578.9	2289.3	1964.7
12.5°	2644.6	2646.3	2676.4	2734.8	2841.3	2950.5	2951.9	2945.3	2770.1	2433.1	2017.9
15°	2577.2	2583.8	2594.8	2632.5	2733.5	2908.4	3033.5	3042.8	2945.3	2585.9	2074.6
17.5°	2621.5	2630.8	2621.5	2626.0	2684.4	2841.6	3047.7	3071.5	3098.5	2736.9	2128.2
20°	2741.4	2750.0	2733.5	2715.1	2726.5	2822.3	3037.6	3069.8	3218.4	2871.0	2173.1
22.5°	2903.2	2906.6	2881.4	2851.3	2843.0	2888.0	3045.9	3079.1	3314.5	2992.3	2201.5
25°	3081.2	3084.3	3052.8	3018.3	2998.6	3016.9	3114.0	3138.9	3399.2	3108.1	2217.7
27.5°	3275.1	3277.9	3238.5	3195.9	3173.1	3173.8	3226.4	3253.0	3489.4	3240.2	2230.9
30°	3480.1	3478.7	3442.4	3383.3	3354.3	3353.6	3388.1	3415.1	3620.1	3409.6	2248.8
32.5°	3710.3	3707.5	3656.0	3582.7	3549.9	3554.7	3585.5	3601.0	3782.2	3590.0	2281.0
35°	4013.4	4005.5	3927.7	3836.8	3776.3	3774.6	3800.5	3812.9	3988.9	3808.4	2334.6
37.5°	4406.8	4399.5	4294.1	4162.1	4077.0	4045.2	4076.0	4091.9	4283.7	4088.8	2420.6
40°	4794.6	4787.3	4724.8	4603.8	4472.8	4396.4	4420.6	4437.5	4651.8	4428.9	2529.2
42.5°	5062.1	5068.4	5090.1	5100.2	4977.5	4817.1	4828.1	4845.8	5038.6	4792.5	2653.3
45°	5132.7	5146.1	5269.2	5510.8	5556.8	5431.6	5315.9	5325.5	5431.6	5156.2	2777.4
47.5°	4920.8	4945.7	5183.1	5632.5	6021.7	6110.2	5891.0	5878.2	5808.8	5450.3	2865.5
50°	4439.3	4462.1	4769.7	5434.4	6162.7	6757.9	6580.3	6542.6	6139.6	5626.3	2896.6
52.5°	3742.4	3770.1	4020.0	4810.8	5896.9	7046.9	7232.9	7201.4	6382.2	5640.1	2901.8
55°	2642.9	2676.4	2940.8	3687.1	5054.5	6817.0	7464.1	7454.8	6583.7	5603.4	2912.8
57.5°	1485.3	1509.5	1794.6	2363.6	3702.0	5937.7	7222.5	7284.4	6705.4	5539.8	2929.4
60°	659.5	666.1	813.7	1176.6	2167.3	4537.8	6530.8	6635.2	6601.0	5454.8	2957.4
62.5°	365.7	360.2	360.2	489.1	941.9	2809.2	5325.5	5498.0	6155.5	5354.2	2958.8
65°	286.5	281.4	266.5	268.6	358.8	1246.8	3687.8	3994.4	5309.3	5059.4	2859.3
67.5°	243.0	238.5	223.6	217.8	222.9	411.3	2026.2	2344.6	4028.6	4293.1	2476.6
70°	205.3	202.2	194.6	187.3	174.2	203.2	775.3	991.7	2482.5	2855.8	1690.6
72.5°	165.2	163.8	166.6	160.4	144.5	135.5	265.1	321.1	1115.1	1274.4	696.5
75°	142.4	141.7	143.1	136.9	118.9	94.4	134.8	147.2	314.5	311.8	141.0
77.5°	92.6	93.7	118.6	115.8	102.3	62.9	69.8	75.4	95.4	71.6	42.9
80°	59.1	58.4	60.1	96.1	91.9	48.0	34.9	36.6	46.0	35.3	20.7
82.5°	35.9	35.3	39.4	44.9	46.3	33.5	21.4	21.8	28.7	22.8	11.1
85°	3.1	4.1	23.9	22.1	15.9	10.4	10.4	11.1	15.2	13.5	6.2
87.5°	0.0	0.0	4.1	6.2	3.5	3.8	3.8	4.1	5.9	5.9	3.1
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: P324716

CATALOG NUMBER: GAN-SA2B-727-U-AFL-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1792.6	1792.6	1792.6	1792.6	1792.6	1792.6	1792.6	1792.6	1792.6	1792.6	1792.6
2.5°	1794.0	1758.0	1685.4	1615.6	1556.5	1499.5	1434.5	1370.2	1340.1	1328.0	1315.6
5°	1797.1	1723.1	1573.4	1422.7	1266.5	1125.8	1005.9	882.8	821.3	794.3	781.9
7.5°	1801.2	1688.5	1446.6	1193.6	941.9	751.1	584.5	477.4	431.0	423.8	405.8
10°	1801.9	1646.7	1299.3	940.5	631.5	452.8	348.4	293.1	272.7	269.3	263.4
12.5°	1803.3	1597.3	1135.8	696.5	421.0	302.8	252.0	233.7	228.1	227.8	227.8
15°	1807.4	1545.4	966.1	501.9	302.4	239.9	221.2	214.0	211.9	212.9	212.6
17.5°	1807.4	1484.2	799.5	374.0	244.4	215.7	205.3	200.5	199.8	200.8	201.2
20°	1794.3	1409.9	646.7	291.0	216.7	200.1	190.8	186.3	184.6	185.3	185.6
22.5°	1762.8	1318.7	522.3	240.9	198.4	186.0	175.9	169.0	166.3	166.6	166.6
25°	1713.8	1210.5	408.6	208.4	183.5	170.8	159.0	151.1	149.3	149.0	149.7
27.5°	1650.9	1090.9	325.3	183.5	165.9	153.8	142.1	135.5	134.1	134.5	134.8
30°	1589.0	966.8	256.5	162.5	146.2	134.8	125.8	122.7	122.7	123.7	124.1
32.5°	1532.3	847.5	202.9	144.1	128.6	118.2	113.0	112.7	114.4	115.1	115.4
35°	1483.6	737.3	168.0	130.0	114.8	105.8	104.0	105.4	107.5	108.9	109.2
37.5°	1449.0	638.8	146.9	118.2	104.0	96.8	96.4	99.2	102.0	105.1	105.8
40°	1434.5	555.5	132.4	107.8	95.4	89.9	88.8	92.6	97.8	102.3	103.0
42.5°	1422.4	487.4	119.9	97.8	88.5	80.5	80.2	85.0	91.3	95.7	96.8
45°	1412.0	432.8	108.5	87.1	79.5	69.1	70.2	76.4	81.2	86.1	87.1
47.5°	1390.6	387.8	96.1	75.7	65.7	59.1	61.2	66.7	70.5	77.8	78.8
50°	1352.2	351.2	83.3	61.9	53.6	51.2	54.3	58.1	62.9	69.1	69.8
52.5°	1326.3	323.5	72.2	51.8	44.2	44.9	48.0	49.4	52.2	54.6	53.9
55°	1311.4	308.3	63.3	44.9	37.7	39.8	40.4	38.7	37.3	34.9	33.9
57.5°	1309.7	294.5	56.3	39.1	33.2	34.2	31.8	25.9	21.1	18.3	17.6
60°	1306.9	277.6	50.8	32.8	29.4	28.0	22.8	14.2	10.0	9.3	9.3
62.5°	1276.9	251.3	46.7	27.7	24.9	21.1	13.1	6.6	5.5	5.9	5.9
65°	1181.1	214.7	42.5	22.5	19.7	15.2	6.6	3.8	2.1	2.4	2.4
67.5°	1004.1	171.1	38.0	17.3	14.9	9.7	3.8	1.7	0.0	0.0	0.0
70°	672.3	106.1	32.1	12.1	9.7	5.9	2.8	0.3	0.0	0.0	0.0
72.5°	257.9	57.4	25.9	7.3	6.2	4.1	1.7	0.0	0.0	0.0	0.0
75°	58.1	37.7	18.0	5.2	4.5	2.8	0.7	0.0	0.0	0.0	0.0
77.5°	22.1	27.3	10.4	3.5	3.1	1.7	0.0	0.0	0.0	0.0	0.0
80°	10.7	16.2	4.8	2.1	1.7	0.7	0.0	0.0	0.0	0.0	0.0
82.5°	5.5	6.2	2.1	1.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0
85°	3.1	3.1	1.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.7	1.0	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)