

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: P266734

Luminaire Tested: **GAN-AF-03-LED-U-AFL-7027-600-HSS-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P266734
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24297)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-03-LED-U-AFL-7027-600-HSS-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 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: 8515.3 lumens
Efficiency: N/A
Efficacy: 88.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B1 - U0 - G1

Input Watts (W): 96
Input Voltage (V): NR
Input Current (A_{in}): 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: 28.75 FT

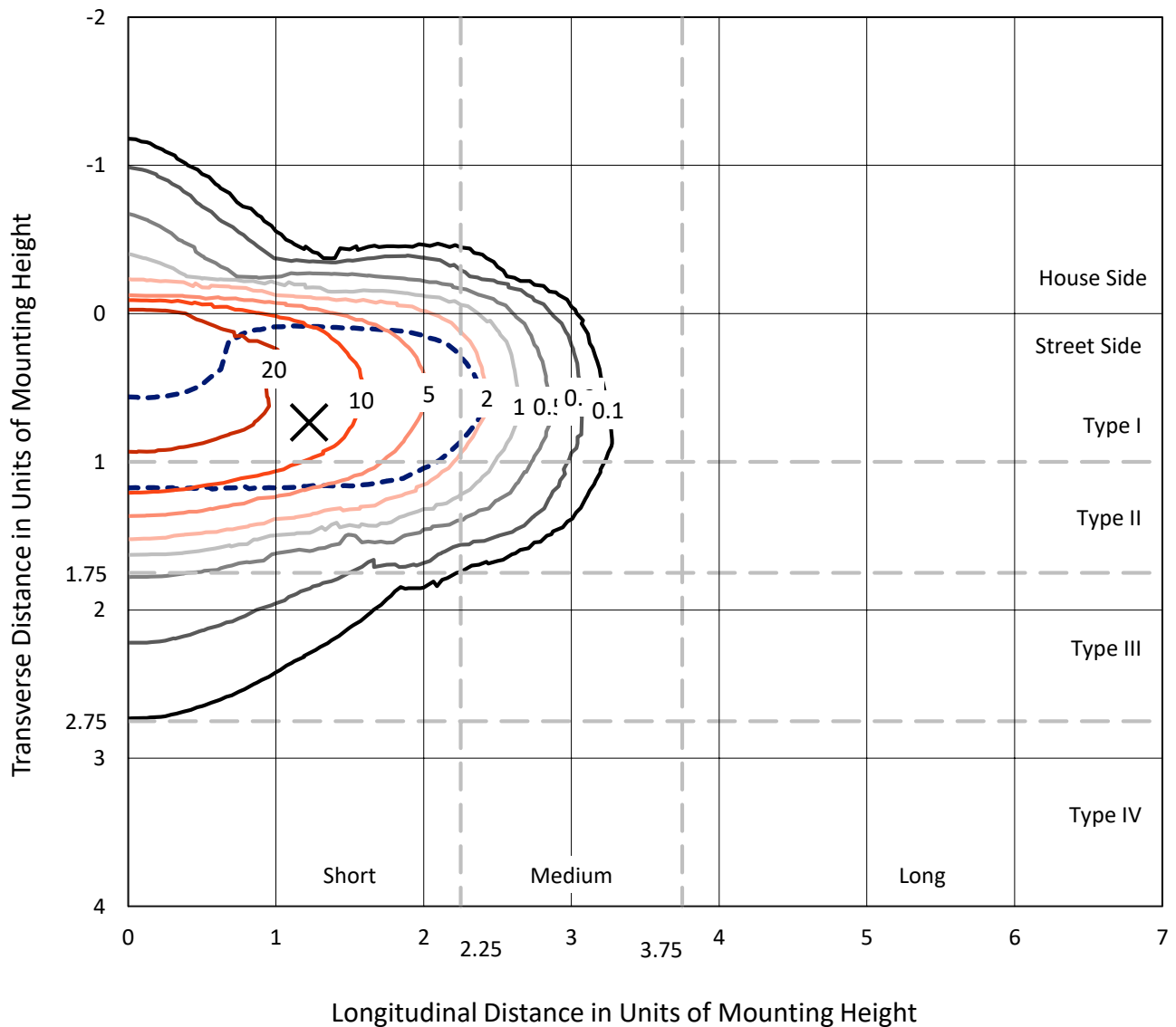


REPORT NUMBER: P266734

CATALOG NUMBER: GAN-AF-03-LED-U-AFL-7027-600-HSS-ADJ

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

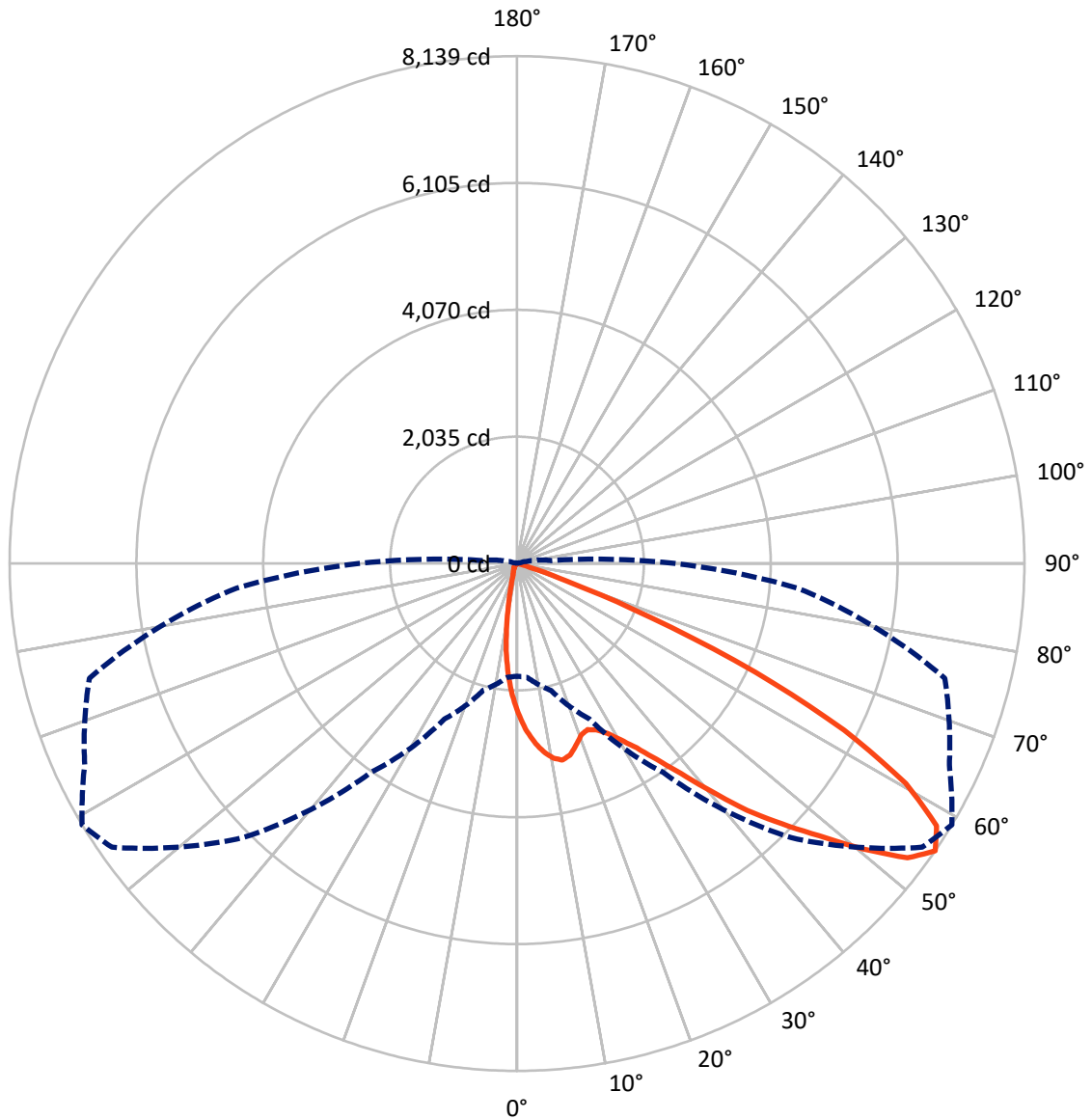


Based on 10 foot mounting height. Maximum calculated value = 29.8 fc
 Type II - Short - Full Cutoff

REPORT NUMBER: P266734

CATALOG NUMBER: GAN-AF-03-LED-U-AFL-7027-600-HSS-ADJ

Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

REPORT NUMBER: P266734

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	475.6	0.0	475.6
	% Fixture	5.6	0.0	5.6
Street Side	Lumens	8039.7	0.0	8039.7
	% Fixture	94.4	0.0	94.4
Total	Lumens	8515.3	0.0	8515.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	200.8	2.4
10°-20°	480.7	5.6
20°-30°	818.0	9.6
30°-40°	1406.8	16.5
40°-50°	2171.9	25.5
50°-60°	2183.5	25.6
60°-70°	1119.7	13.1
70°-80°	121.3	1.4
80°-90°	12.7	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°	8515.3	100.0
0°-180°	8515.3	100.0

Coefficient of Utilization



REPORT NUMBER: P266734

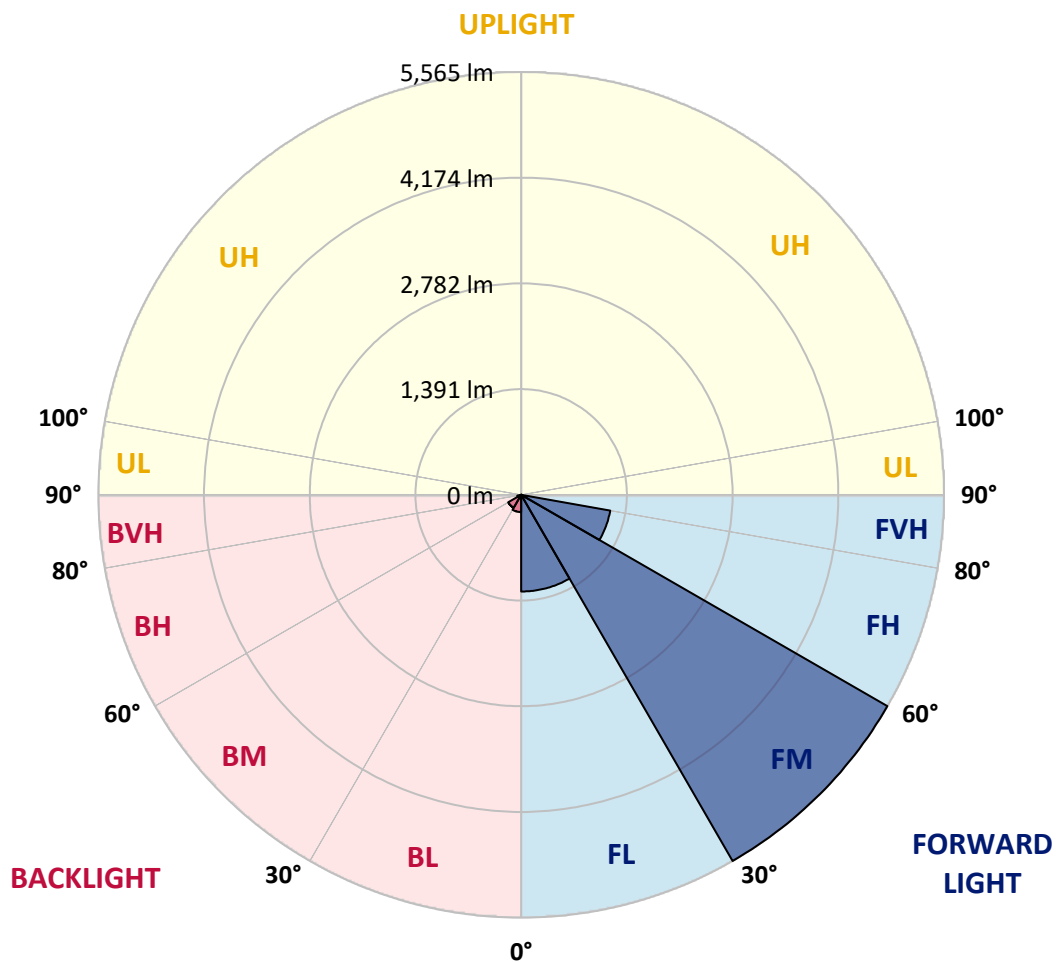
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1272.5	14.9			
FM	(30°-60°)	5564.7	65.3			
FH	(60°-80°)	1190.1	14.0			G1/1800
FVH	(80°-90°)	12.4	0.1			G1/100
BL	(0°-30°)	227.0	2.7	B1/500		
BM	(30°-60°)	197.4	2.3	B0/220		
BH	(60°-80°)	51.0	0.6	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: P266734

CATALOG NUMBER: GAN-AF-03-LED-U-AFL-7027-600-HSS-ADJ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	2397.0	2397.0	2397.0	2397.0	2397.0	2397.0	2397.0	2397.0	2397.0	2397.0	2397.0
2.5°	2836.3	2806.0	2797.1	2791.0	2763.4	2728.7	2681.5	2659.3	2614.1	2541.2	2451.8
5°	3096.1	3090.4	3070.3	3059.4	3029.8	2980.4	2905.1	2868.8	2797.1	2674.4	2514.1
7.5°	2982.5	3017.1	3044.7	3091.0	3149.3	3147.3	3084.1	3046.3	2965.9	2804.1	2583.4
10°	2543.8	2571.8	2617.1	2722.1	2936.2	3125.3	3199.6	3172.5	3108.0	2923.2	2650.3
12.5°	2457.9	2454.8	2462.9	2493.5	2605.5	2874.9	3180.0	3234.7	3221.7	3032.1	2713.6
15°	2503.5	2500.1	2499.1	2509.7	2536.8	2650.3	3032.7	3190.1	3291.0	3133.2	2767.4
17.5°	2631.8	2616.7	2608.6	2600.1	2592.0	2620.1	2855.8	3064.8	3301.6	3221.7	2812.1
20°	2851.3	2826.2	2796.6	2748.4	2703.1	2688.9	2781.4	2936.2	3263.9	3289.1	2841.2
22.5°	3127.2	3095.0	3043.7	2955.9	2863.8	2810.5	2818.2	2895.5	3207.6	3362.4	2854.9
25°	3437.3	3396.0	3327.7	3205.6	3070.3	2975.9	2926.7	2953.8	3181.9	3448.4	2870.4
27.5°	3769.4	3723.7	3634.3	3467.8	3314.7	3186.9	3086.4	3083.0	3225.8	3560.9	2895.5
30°	4098.5	4091.5	3975.0	3799.1	3596.1	3440.8	3296.1	3277.5	3347.9	3716.6	2945.4
32.5°	4537.8	4485.0	4342.2	4161.4	3927.2	3740.8	3569.4	3526.1	3535.3	3898.0	3022.2
35°	5091.6	5033.8	4832.7	4583.1	4321.1	4101.1	3911.6	3852.8	3830.7	4195.1	3151.9
37.5°	5449.4	5448.4	5322.2	5068.0	4787.1	4544.3	4338.3	4269.5	4224.6	4553.9	3352.8
40°	5458.9	5482.5	5499.2	5496.5	5296.5	5073.0	4890.1	4805.2	4701.1	5033.3	3612.7
42.5°	5166.0	5226.8	5373.0	5621.2	5739.8	5650.9	5496.5	5413.1	5258.4	5546.3	3929.2
45°	4769.9	4812.2	5068.0	5525.2	5980.0	6223.7	6106.1	5956.9	5752.8	6081.5	4213.1
47.5°	4592.6	4600.1	4765.4	5267.4	5998.2	6693.1	6764.4	6521.8	6202.2	6512.7	4435.3
50°	4062.3	4076.0	4304.0	4820.8	5786.1	6914.8	7425.7	7195.7	6692.2	6844.8	4516.1
52.5°	3061.9	3080.9	3370.4	4086.5	5203.2	6820.2	7899.2	7843.5	7228.8	7007.1	4520.7
55°	1806.6	1831.7	2108.1	2750.8	4092.6	6219.2	7934.3	8139.4	7652.4	7103.2	4513.7
57.5°	843.8	861.4	1019.7	1417.2	2545.3	4915.2	7404.6	7936.3	7886.1	7153.9	4563.4
60°	448.3	453.3	491.5	613.6	1150.3	3116.7	6371.0	7166.5	7673.1	7224.3	4624.3
62.5°	342.8	344.2	342.3	356.7	483.4	1383.4	4815.6	5891.5	6815.3	7171.4	4556.9
65°	297.0	299.6	285.4	281.9	310.1	493.4	2860.8	4199.5	5355.3	6459.4	4098.1
67.5°	266.3	267.3	250.3	235.6	240.7	266.8	1128.7	2299.0	3544.8	4734.7	2970.4
70°	245.2	244.2	225.7	202.5	196.0	182.4	358.9	842.7	1694.1	2401.1	1381.5
72.5°	217.1	217.6	208.5	178.5	162.9	127.6	166.4	245.7	505.6	654.2	323.6
75°	192.4	189.9	178.9	159.8	134.1	83.9	82.5	109.6	155.8	154.8	69.9
77.5°	139.1	136.7	140.1	131.2	103.0	54.3	41.2	52.8	63.3	61.4	19.7
80°	102.0	100.5	90.5	109.1	91.0	37.2	25.6	28.1	32.7	27.7	6.0
82.5°	69.9	69.3	63.8	60.2	51.7	22.5	16.1	17.5	21.1	15.6	3.1
85°	11.0	12.5	46.3	36.7	30.6	10.1	11.0	12.0	14.1	8.5	1.0
87.5°	0.0	0.0	21.6	19.1	6.0	4.0	6.6	7.0	7.0	4.5	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



REPORT NUMBER: P266734

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2397.0	2397.0	2397.0	2397.0	2397.0	2397.0	2397.0	2397.0	2397.0	2397.0	2397.0
2.5°	2406.1	2355.8	2262.9	2166.9	2077.9	1971.9	1899.0	1844.3	1780.9	1763.8	1801.0
5°	2422.6	2327.7	2127.6	1910.1	1705.5	1478.9	1305.5	1168.3	1044.2	1002.0	1040.1
7.5°	2448.8	2307.6	1981.4	1623.1	1267.4	913.5	671.4	512.0	410.5	380.4	396.5
10°	2474.9	2278.5	1812.2	1283.5	796.9	444.8	289.4	231.1	209.6	205.1	207.6
12.5°	2496.5	2239.3	1605.6	912.6	426.2	238.2	189.5	179.9	176.8	176.8	177.9
15°	2509.7	2179.9	1360.8	580.5	245.2	179.9	165.3	162.4	162.4	162.9	163.9
17.5°	2508.1	2104.5	1093.0	351.2	183.4	159.3	150.7	148.2	147.7	148.8	149.3
20°	2489.6	2006.1	824.1	231.7	159.8	145.3	136.7	132.2	131.6	132.7	133.7
22.5°	2454.3	1884.5	589.5	178.5	144.2	131.6	121.1	117.0	117.0	118.0	119.0
25°	2411.6	1735.7	403.0	151.3	130.2	117.0	107.1	103.6	104.6	107.1	107.5
27.5°	2358.3	1568.4	273.9	129.6	113.0	102.4	95.0	92.4	95.0	98.5	99.5
30°	2312.5	1394.0	195.6	112.1	95.9	88.5	83.9	83.9	87.5	94.0	95.5
32.5°	2277.5	1225.2	150.7	99.1	83.5	76.8	74.4	76.8	82.5	88.9	90.5
35°	2272.9	1086.0	127.6	88.5	74.4	67.8	66.8	71.3	76.8	81.9	83.0
37.5°	2307.6	957.4	115.1	79.9	66.4	60.2	59.3	64.8	70.3	76.4	78.0
40°	2373.4	856.4	106.0	71.9	59.7	53.3	51.3	55.2	62.8	70.8	72.9
42.5°	2458.8	772.9	95.9	63.8	53.3	44.2	41.7	46.3	54.3	62.8	65.3
45°	2540.2	700.9	84.9	54.7	44.7	34.1	33.1	39.2	43.2	51.7	53.8
47.5°	2585.1	637.6	75.4	44.7	34.7	27.7	27.7	29.1	33.1	43.2	45.3
50°	2570.0	587.0	65.3	33.1	24.2	21.1	21.1	20.7	26.6	34.7	36.2
52.5°	2539.8	557.8	56.2	25.6	16.6	15.1	13.6	15.1	18.5	22.1	22.5
55°	2535.2	552.7	47.3	20.7	11.6	10.1	7.5	7.5	7.5	7.0	6.0
57.5°	2570.4	560.8	39.6	16.6	8.5	6.6	4.0	0.0	0.0	0.0	0.0
60°	2606.6	569.3	34.1	11.6	6.0	3.6	0.4	0.0	0.0	0.0	0.0
62.5°	2546.2	550.2	28.7	7.0	4.5	1.4	0.0	0.0	0.0	0.0	0.0
65°	2236.7	468.3	22.5	5.0	3.1	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	1591.0	313.6	15.1	3.1	0.4	0.0	0.0	0.0	0.0	0.0	0.0
70°	726.1	131.2	9.5	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	155.2	40.8	6.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	31.7	29.6	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	10.1	46.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	6.0	33.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	1.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	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)