

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: P192670

Luminaire Tested: **GAN-AF-02-LED-U-AFL-7030-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192670
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-02-LED-U-AFL-7030-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 1050mA 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: 9642.1 lumens
Efficiency: N/A
Efficacy: 85.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B1 - U0 - G1

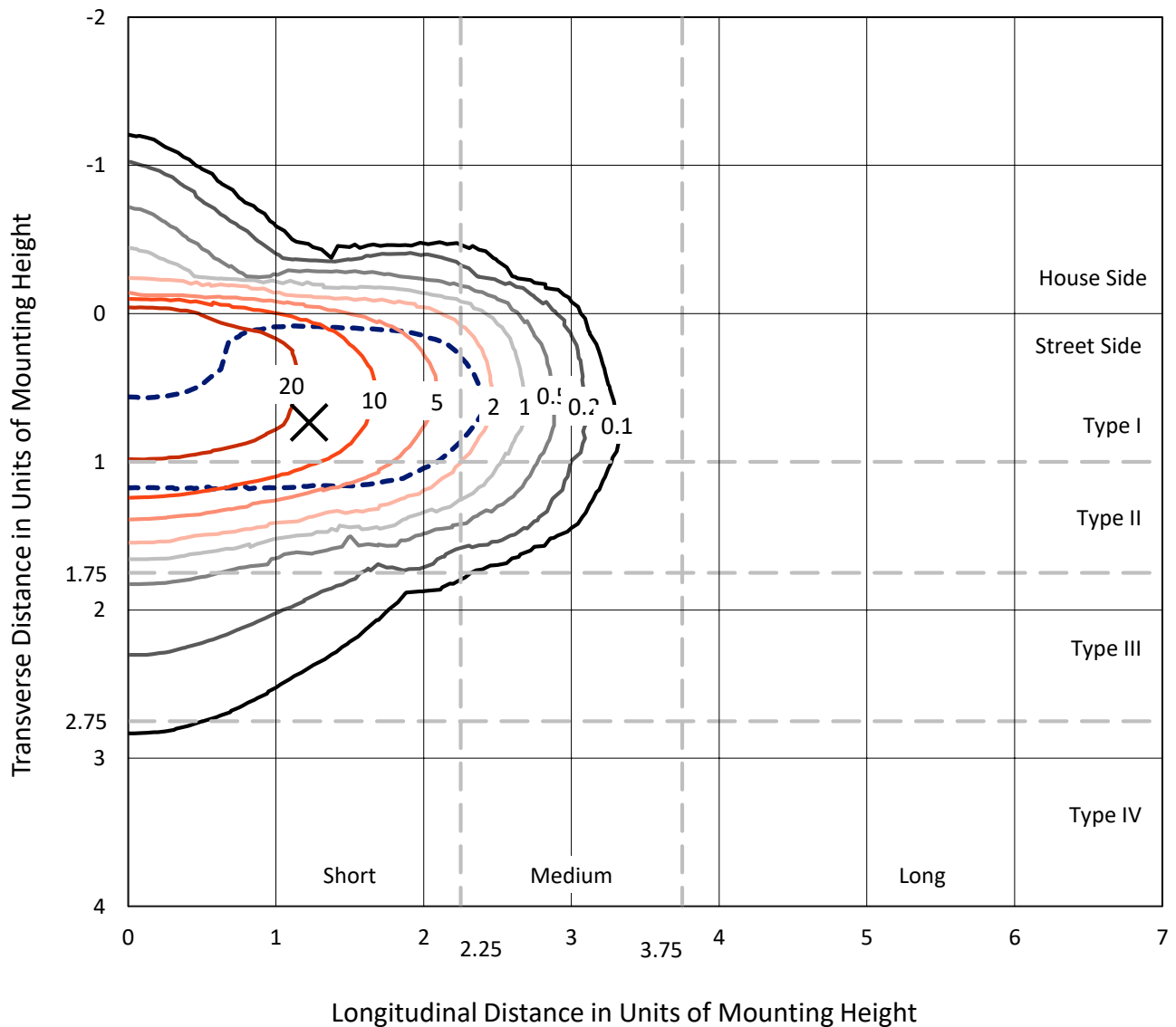
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

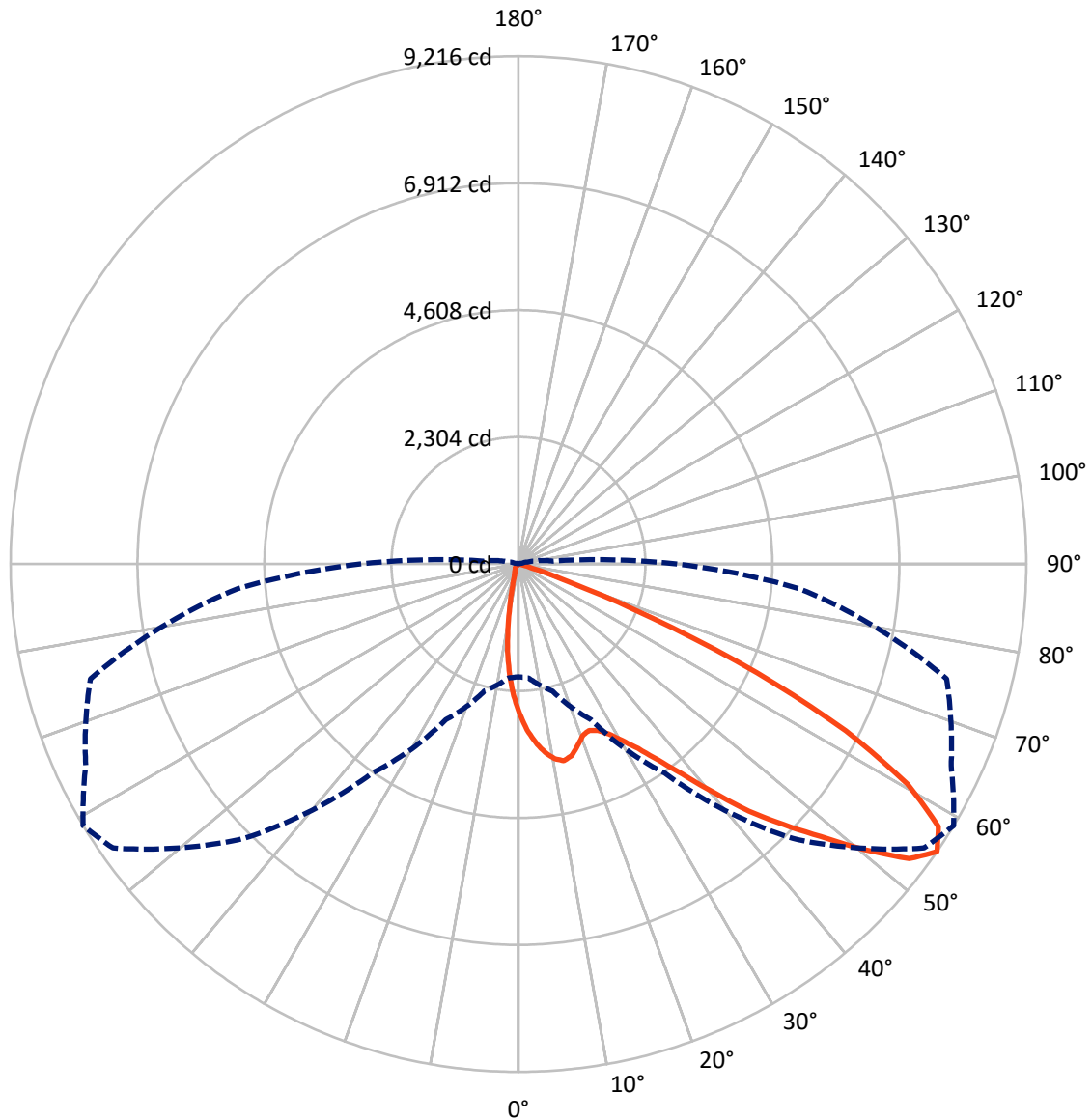
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 33.8 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	538.6	0.0	538.6
	% Fixture	5.6	0.0	5.6
Street Side	Lumens	9103.6	0.0	9103.6
	% Fixture	94.4	0.0	94.4
Total	Lumens	9642.1	0.0	9642.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	227.3	2.4
10°-20°	544.3	5.6
20°-30°	926.2	9.6
30°-40°	1592.9	16.5
40°-50°	2459.3	25.5
50°-60°	2472.4	25.6
60°-70°	1267.8	13.1
70°-80°	137.4	1.4
80°-90°	14.4	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°	9642.1	100.0
0°-180°	9642.1	100.0

Coefficient of Utilization



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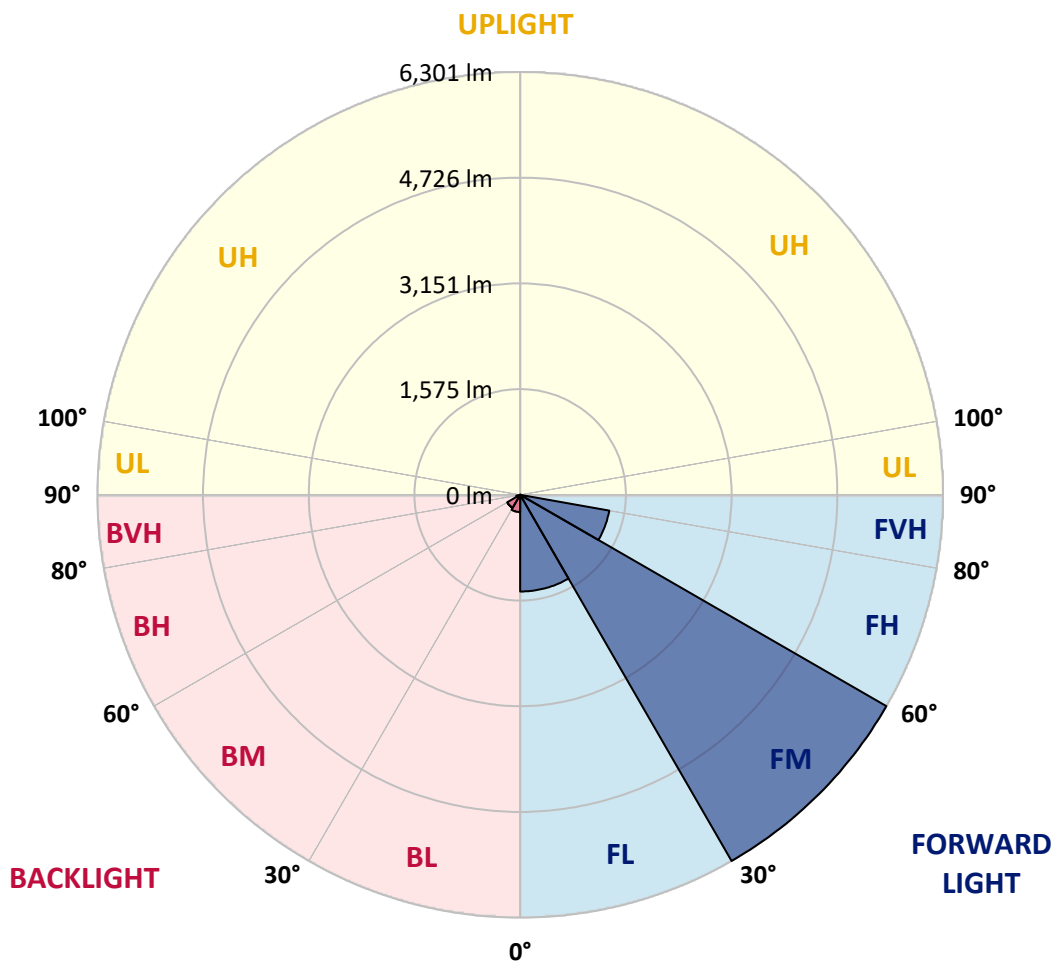
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1440.9	14.9			
FM	(30°-60°)	6301.1	65.3			
FH	(60°-80°)	1347.5	14.0			G1/1800
FVH	(80°-90°)	14.1	0.1			G1/100
BL	(0°-30°)	257.1	2.7	B1/500		
BM	(30°-60°)	223.5	2.3	B1/1000		
BH	(60°-80°)	57.7	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	2714.2	2714.2	2714.2	2714.2	2714.2	2714.2	2714.2	2714.2	2714.2	2714.2	2714.2
2.5°	3211.5	3177.4	3167.2	3160.4	3129.0	3089.8	3036.4	3011.3	2960.1	2877.6	2776.3
5°	3505.7	3499.5	3476.7	3464.2	3430.6	3374.9	3289.5	3248.5	3167.2	3028.3	2846.9
7.5°	3377.1	3416.4	3447.6	3500.0	3566.0	3563.8	3492.0	3449.5	3358.3	3175.2	2925.3
10°	2880.4	2912.2	2963.4	3082.4	3324.8	3538.7	3622.9	3592.2	3519.3	3310.0	3001.1
12.5°	2783.1	2779.7	2788.8	2823.5	2950.3	3255.4	3600.7	3662.8	3647.9	3433.5	3072.7
15°	2834.8	2830.9	2829.7	2841.8	2872.4	3001.1	3434.0	3612.1	3726.5	3547.8	3133.5
17.5°	2979.9	2962.9	2953.9	2944.1	2935.0	2966.8	3233.7	3470.4	3738.5	3647.9	3184.3
20°	3228.6	3200.2	3166.6	3111.9	3060.8	3044.8	3149.5	3324.8	3695.8	3724.2	3217.2
22.5°	3541.0	3504.6	3446.6	3346.9	3242.9	3182.5	3191.0	3278.7	3632.1	3807.3	3232.7
25°	3892.2	3845.5	3768.1	3629.8	3476.7	3369.8	3314.0	3344.7	3603.1	3904.6	3250.3
27.5°	4268.2	4216.5	4115.1	3926.8	3753.3	3608.8	3494.8	3491.0	3652.5	4032.1	3278.7
30°	4640.9	4632.9	4500.9	4301.7	4071.9	3896.0	3732.2	3711.1	3790.9	4208.4	3335.0
32.5°	5138.3	5078.5	4916.8	4712.1	4446.9	4235.8	4041.7	3992.8	4003.0	4413.8	3422.1
35°	5765.3	5699.8	5472.2	5189.5	4892.9	4643.7	4429.3	4362.7	4337.6	4750.1	3568.9
37.5°	6170.4	6169.4	6026.5	5738.6	5420.5	5145.7	4912.3	4834.4	4783.7	5156.5	3796.5
40°	6181.3	6208.0	6226.8	6224.0	5997.5	5744.3	5537.2	5441.0	5323.2	5699.3	4090.6
42.5°	5849.5	5918.3	6084.0	6365.0	6499.4	6398.7	6224.0	6129.5	5954.2	6280.2	4449.1
45°	5401.1	5449.0	5738.6	6256.4	6771.4	7047.3	6914.2	6745.1	6514.1	6886.3	4770.7
47.5°	5200.3	5208.8	5396.0	5964.5	6791.8	7578.8	7659.6	7384.8	7022.8	7374.5	5022.2
50°	4600.0	4615.3	4873.6	5458.6	6551.7	7829.7	8408.4	8147.8	7577.6	7750.7	5113.8
52.5°	3467.1	3488.6	3816.4	4627.2	5891.6	7722.8	8944.4	8881.2	8185.3	7934.4	5118.9
55°	2045.7	2074.1	2387.0	3114.8	4634.1	7042.2	8984.3	9216.4	8665.1	8043.1	5110.9
57.5°	955.4	975.2	1154.6	1604.6	2882.0	5565.5	8384.5	8986.6	8929.6	8100.6	5167.3
60°	507.6	513.3	556.4	694.8	1302.5	3529.1	7214.1	8114.8	8688.4	8180.2	5236.1
62.5°	388.1	389.7	387.6	404.0	547.4	1566.6	5452.9	6671.2	7717.1	8120.4	5159.9
65°	336.3	339.1	323.2	319.2	351.0	558.8	3239.4	4755.3	6064.0	7314.2	4640.3
67.5°	301.5	302.7	283.4	266.9	272.6	302.1	1278.0	2603.3	4013.8	5361.4	3363.4
70°	277.6	276.5	255.4	229.3	221.9	206.5	406.2	954.3	1918.1	2718.8	1564.3
72.5°	245.9	246.4	236.1	202.0	184.3	144.5	188.4	278.3	572.4	740.9	366.4
75°	218.0	215.1	202.5	181.0	152.0	95.0	93.3	124.0	176.4	175.3	79.1
77.5°	157.7	154.8	158.8	148.5	116.7	61.4	46.7	59.8	71.7	69.4	22.2
80°	115.5	113.8	102.3	123.5	103.0	42.1	29.1	31.9	37.0	31.2	6.8
82.5°	79.1	78.5	72.2	68.3	58.6	25.5	18.2	19.8	23.9	17.6	3.4
85°	12.6	14.2	52.3	41.5	34.8	11.4	12.6	13.6	16.0	9.8	1.1
87.5°	0.0	0.0	24.5	21.7	6.8	4.6	7.4	7.9	7.9	5.1	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2714.2	2714.2	2714.2	2714.2	2714.2	2714.2	2714.2	2714.2	2714.2	2714.2	2714.2
2.5°	2724.5	2667.6	2562.3	2453.6	2352.9	2232.8	2150.3	2088.3	2016.6	1997.3	2039.4
5°	2743.3	2635.7	2409.2	2162.9	1931.2	1674.6	1478.3	1323.0	1182.4	1134.6	1178.0
7.5°	2772.8	2612.9	2243.6	1838.0	1435.1	1034.4	760.2	579.8	464.9	430.7	448.9
10°	2802.4	2579.9	2051.9	1453.2	902.5	503.5	327.8	261.7	237.3	232.1	235.0
12.5°	2826.9	2535.6	1818.0	1033.4	482.5	269.8	214.4	203.7	200.3	200.3	201.5
15°	2841.8	2468.3	1540.9	657.2	277.6	203.7	187.2	183.8	183.8	184.3	185.5
17.5°	2839.9	2383.1	1237.6	397.7	207.7	180.4	170.7	167.8	167.2	168.5	169.1
20°	2818.9	2271.5	933.2	262.3	181.0	164.4	154.8	149.6	149.0	150.2	151.4
22.5°	2779.1	2133.9	667.5	202.0	163.4	149.0	137.1	132.5	132.5	133.8	134.8
25°	2730.7	1965.3	456.3	171.3	147.4	132.5	121.2	117.2	118.3	121.2	121.9
27.5°	2670.4	1775.9	310.1	146.9	128.1	116.1	107.5	104.7	107.5	111.6	112.6
30°	2618.6	1578.5	221.4	126.8	108.7	100.2	95.0	95.0	99.0	106.4	108.1
32.5°	2578.8	1387.3	170.7	112.1	94.5	87.1	84.2	87.1	93.3	100.7	102.3
35°	2573.7	1229.6	144.5	100.2	84.2	76.8	75.7	80.9	87.1	92.8	93.9
37.5°	2612.9	1084.0	130.3	90.4	75.1	68.3	67.2	73.4	79.6	86.6	88.2
40°	2687.4	969.5	120.0	81.4	67.7	60.3	58.0	62.6	71.1	80.2	82.5
42.5°	2784.3	875.1	108.7	72.2	60.3	50.0	47.2	52.3	61.4	71.1	74.0
45°	2876.4	793.8	96.1	62.1	50.7	38.7	37.5	44.4	48.9	58.6	60.8
47.5°	2927.0	722.1	85.3	50.7	39.3	31.2	31.2	33.0	37.5	48.9	51.3
50°	2910.0	664.7	74.0	37.5	27.4	23.9	23.9	23.4	30.1	39.3	41.0
52.5°	2875.8	631.6	63.7	29.1	18.8	17.1	15.4	17.1	21.1	25.0	25.5
55°	2870.7	625.9	53.5	23.4	13.1	11.4	8.5	8.5	8.5	7.9	6.8
57.5°	2910.5	635.1	44.9	18.8	9.8	7.4	4.6	0.0	0.0	0.0	0.0
60°	2951.5	644.7	38.7	13.1	6.8	4.0	0.5	0.0	0.0	0.0	0.0
62.5°	2883.3	623.1	32.4	7.9	5.1	1.7	0.0	0.0	0.0	0.0	0.0
65°	2532.7	530.4	25.5	5.7	3.4	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	1801.4	355.1	17.1	3.4	0.5	0.0	0.0	0.0	0.0	0.0	0.0
70°	822.2	148.5	10.8	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	175.8	46.1	7.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	35.8	33.6	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	11.4	52.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	6.8	38.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	1.1	5.7	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)