

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: P268495

Luminaire Tested: **GAN-AF-05-LED-U-AFL-7027-600-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268495
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-05-LED-U-AFL-7027-600-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 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: 13941 lumens
Efficiency: N/A
Efficacy: 86.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 162
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

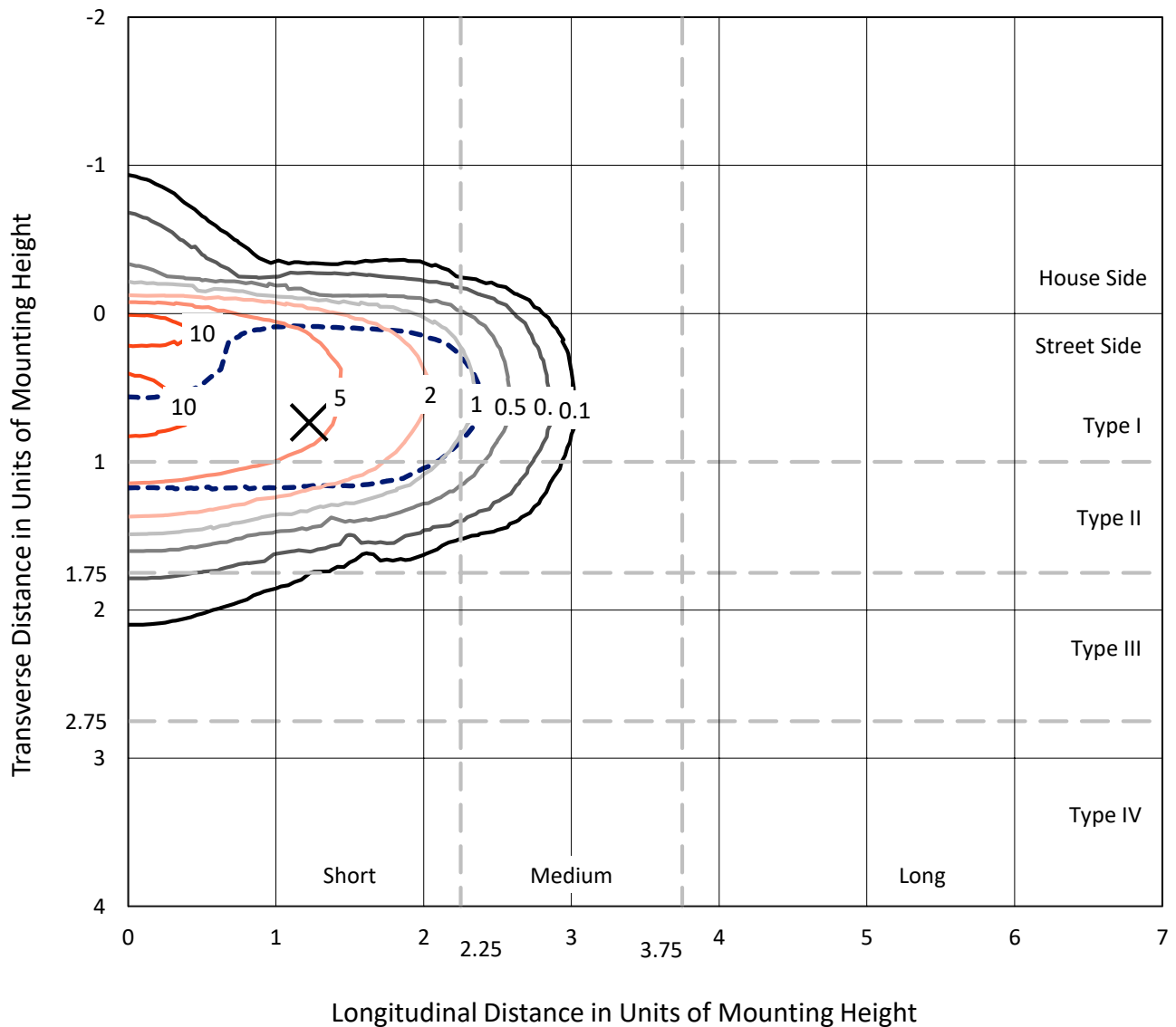


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

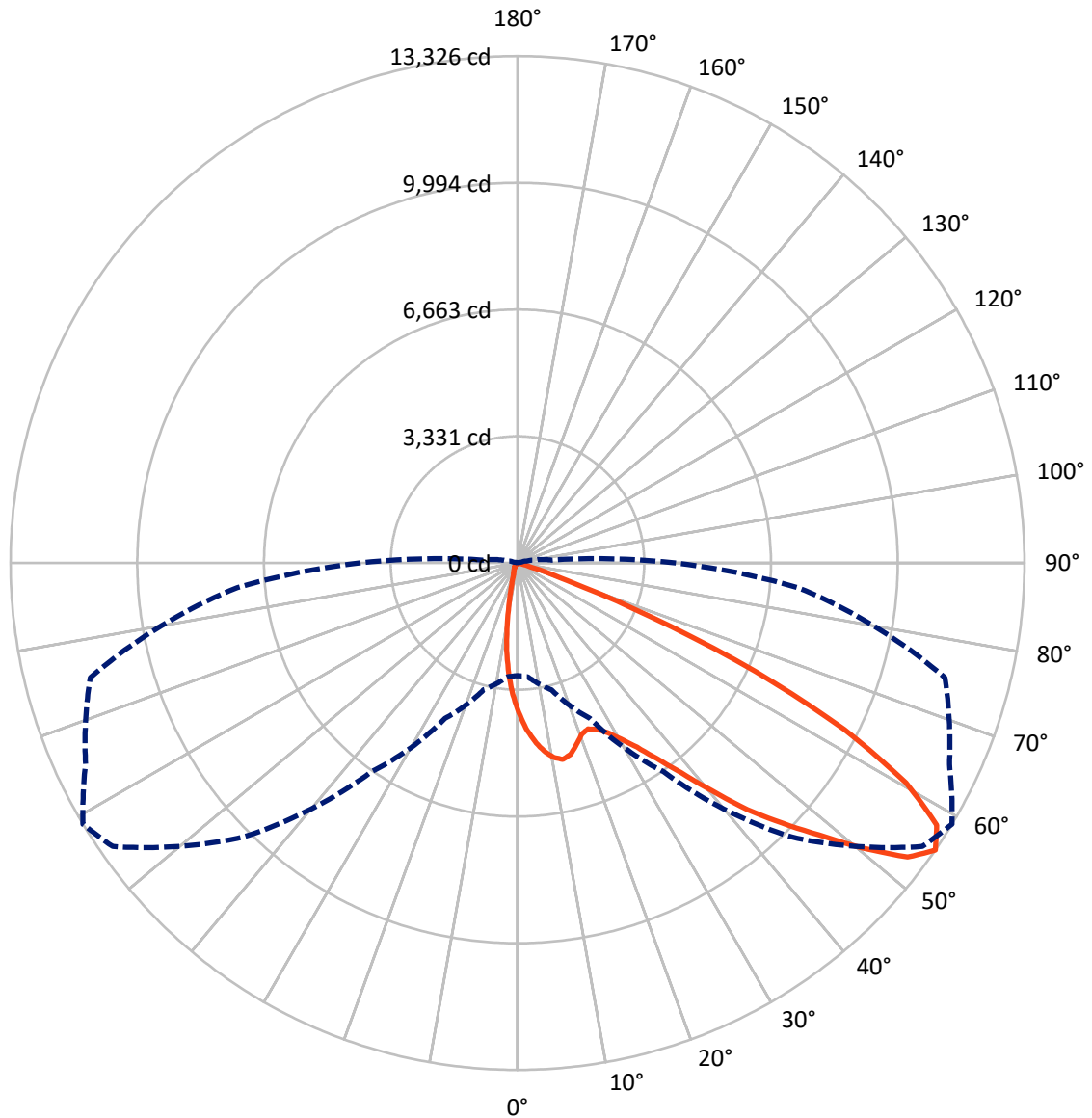


Based on 20 foot mounting height. Maximum calculated value = 12.2 fc
 Type II - Short - Full Cutoff

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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	778.7	0.0	778.7
	% Fixture	5.6	0.0	5.6
Street Side	Lumens	13162.3	0.0	13162.3
	% Fixture	94.4	0.0	94.4
Total	Lumens	13941.0	0.0	13941.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	328.7	2.4
10°-20°	787.0	5.6
20°-30°	1339.2	9.6
30°-40°	2303.1	16.5
40°-50°	3555.8	25.5
50°-60°	3574.7	25.6
60°-70°	1833.1	13.1
70°-80°	198.7	1.4
80°-90°	20.8	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°	13941.0	100.0
0°-180°	13941.0	100.0

Coefficient of Utilization



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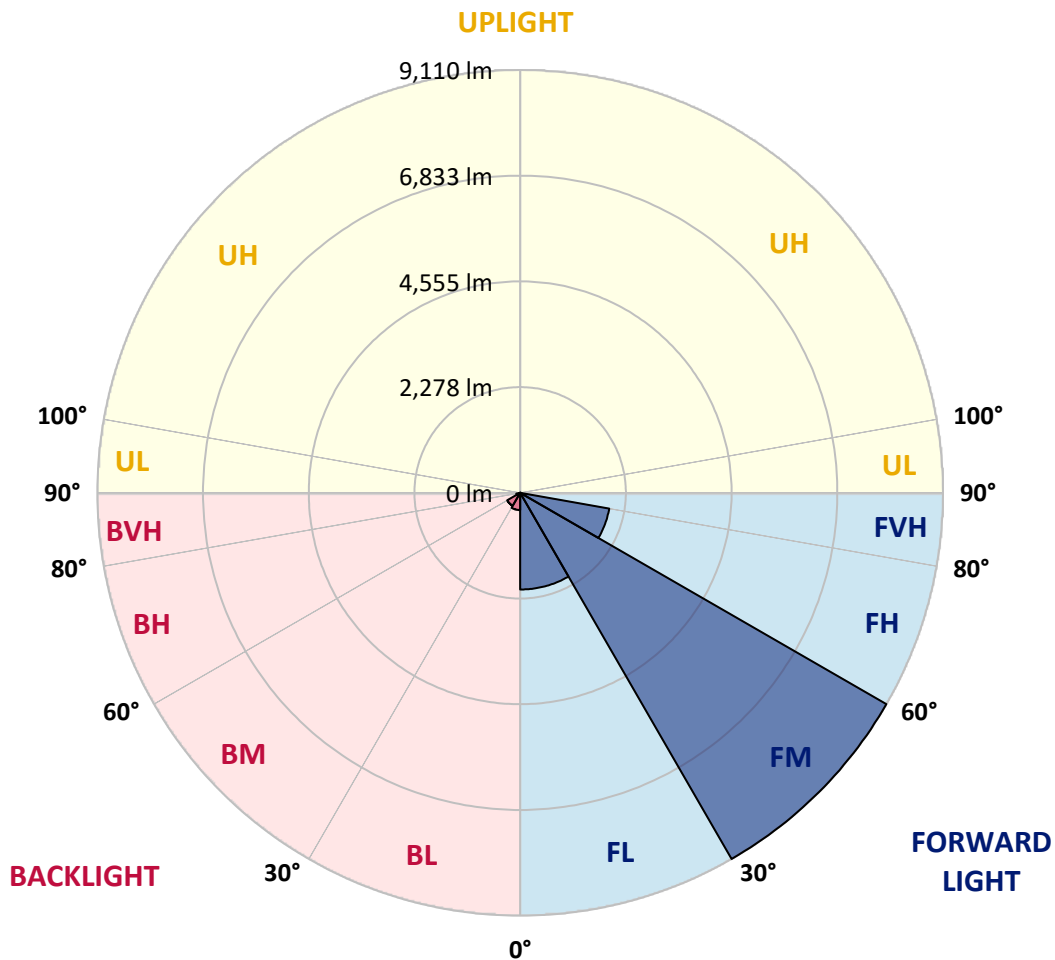
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2083.2	14.9			
FM	(30°-60°)	9110.4	65.3			
FH	(60°-80°)	1948.3	14.0			G2/5000
FVH	(80°-90°)	20.3	0.1			G1/100
BL	(0°-30°)	371.7	2.7	B1/500		
BM	(30°-60°)	323.2	2.3	B1/1000		
BH	(60°-80°)	83.4	0.6	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-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	3924.3	3924.3	3924.3	3924.3	3924.3	3924.3	3924.3	3924.3	3924.3	3924.3	3924.3
2.5°	4643.3	4594.0	4579.2	4569.3	4524.0	4467.4	4389.9	4353.7	4279.7	4160.4	4013.9
5°	5068.7	5059.7	5026.7	5008.7	4960.1	4879.6	4756.0	4696.9	4579.2	4378.5	4116.0
7.5°	4882.7	4939.6	4984.9	5060.5	5155.9	5152.7	5049.0	4987.3	4855.7	4590.7	4229.6
10°	4164.5	4210.6	4284.6	4456.6	4807.1	5116.4	5238.1	5193.8	5088.4	4785.7	4339.0
12.5°	4023.9	4018.9	4032.1	4082.3	4265.7	4706.7	5206.0	5295.8	5274.4	4964.3	4442.7
15°	4098.7	4092.9	4091.3	4108.6	4153.0	4339.0	4965.0	5222.6	5387.9	5129.6	4530.7
17.5°	4308.5	4283.8	4270.7	4256.7	4243.6	4289.6	4675.5	5017.8	5405.2	5274.4	4604.0
20°	4668.0	4626.9	4578.4	4499.4	4425.4	4402.4	4553.7	4807.1	5343.5	5384.6	4651.7
22.5°	5119.7	5067.1	4983.2	4839.2	4688.7	4601.4	4613.8	4740.4	5251.3	5504.8	4673.8
25°	5627.3	5559.9	5448.0	5248.1	5026.7	4872.0	4791.5	4835.8	5209.5	5645.5	4699.4
27.5°	6171.1	6096.3	5949.8	5677.6	5426.7	5217.6	5053.1	5047.3	5281.0	5829.7	4740.4
30°	6710.0	6698.5	6507.6	6219.7	5887.3	5633.1	5396.2	5365.8	5480.9	6084.8	4821.9
32.5°	7429.2	7342.7	7109.0	6812.8	6429.4	6124.3	5843.7	5773.0	5787.8	6381.7	4947.8
35°	8335.7	8241.1	7912.0	7503.2	7074.5	6714.1	6403.9	6307.7	6271.5	6868.0	5160.0
37.5°	8921.4	8919.8	8713.3	8297.0	7837.2	7439.8	7102.4	6989.7	6916.5	7455.5	5489.2
40°	8937.1	8975.8	9003.0	8998.9	8671.3	8305.3	8005.9	7866.7	7696.5	8240.2	5914.5
42.5°	8457.5	8557.1	8796.5	9202.9	9397.0	9251.4	8998.9	8862.3	8608.8	9080.2	6432.8
45°	7809.1	7878.2	8297.0	9045.8	9790.3	10189.3	9996.8	9752.4	9418.4	9956.5	6897.6
47.5°	7518.8	7531.1	7801.8	8623.6	9819.9	10957.6	11074.6	10677.2	10153.9	10662.3	7261.3
50°	6650.8	6673.0	7046.6	7892.2	9472.6	11320.5	12157.2	11780.5	10956.1	11206.1	7393.7
52.5°	5012.8	5044.1	5517.8	6690.2	8518.4	11165.8	12932.2	12840.9	11834.7	11471.9	7401.1
55°	2957.7	2998.8	3451.3	4503.6	6700.2	10181.8	12989.9	13325.5	12528.2	11629.0	7389.5
57.5°	1381.4	1410.1	1669.3	2320.1	4167.1	8046.9	12122.6	12993.1	12910.8	11712.1	7471.1
60°	733.8	742.1	804.6	1004.6	1883.1	5102.5	10430.3	11732.8	12562.0	11827.3	7570.6
62.5°	561.1	563.5	560.3	584.1	791.4	2264.9	7884.1	9645.6	11157.6	11740.8	7460.3
65°	486.3	490.4	467.3	461.5	507.6	807.8	4683.8	6875.4	8767.6	10575.1	6709.3
67.5°	436.0	437.7	409.6	385.8	394.0	436.8	1847.9	3763.9	5803.4	7751.6	4863.1
70°	401.5	399.8	369.5	331.6	320.9	298.6	587.4	1379.6	2773.3	3931.0	2261.7
72.5°	355.4	356.3	341.4	292.0	266.5	208.9	272.4	402.4	827.7	1071.1	529.8
75°	315.0	311.1	292.8	261.6	219.6	137.4	134.9	179.3	255.1	253.4	114.4
77.5°	227.9	223.8	229.5	214.8	168.6	88.8	67.5	86.3	103.7	100.4	32.1
80°	167.1	164.5	148.1	178.6	148.8	60.8	42.0	46.1	53.4	45.3	9.9
82.5°	114.4	113.5	104.6	98.8	84.7	37.0	26.3	28.7	34.6	25.5	4.9
85°	18.1	20.7	75.6	60.0	50.1	16.4	18.1	19.8	23.0	14.0	1.6
87.5°	0.0	0.0	35.4	31.4	9.9	6.6	10.7	11.5	11.5	7.4	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°	3924.3	3924.3	3924.3	3924.3	3924.3	3924.3	3924.3	3924.3	3924.3	3924.3	3924.3
2.5°	3939.2	3856.9	3704.7	3547.5	3401.9	3228.2	3109.0	3019.4	2915.7	2887.7	2948.5
5°	3966.2	3810.8	3483.4	3127.1	2792.3	2421.2	2137.3	1912.9	1709.6	1640.5	1702.9
7.5°	4009.0	3777.9	3244.0	2657.4	2074.8	1495.7	1099.2	838.4	672.1	622.7	649.1
10°	4051.9	3730.2	2966.7	2101.1	1304.8	728.0	473.9	378.5	343.1	335.6	339.7
12.5°	4087.2	3666.1	2628.6	1494.1	697.7	390.0	310.2	294.6	289.7	289.7	291.2
15°	4108.6	3569.0	2227.8	950.2	401.5	294.6	270.7	265.7	265.7	266.5	268.2
17.5°	4106.2	3445.4	1789.5	575.0	300.4	260.8	246.9	242.7	241.9	243.5	244.3
20°	4075.7	3284.3	1349.3	379.3	261.6	237.7	223.8	216.4	215.6	217.2	218.8
22.5°	4018.1	3085.1	965.0	292.0	236.2	215.6	198.3	191.7	191.7	193.3	195.0
25°	3948.2	2841.7	659.9	247.7	213.1	191.7	175.2	169.5	171.1	175.2	176.1
27.5°	3860.9	2567.6	448.3	212.3	185.1	167.9	155.4	151.4	155.4	161.2	163.0
30°	3786.1	2282.2	320.1	183.4	157.2	144.7	137.4	137.4	143.2	153.8	156.3
32.5°	3728.5	2005.7	246.9	162.1	136.5	125.9	121.8	125.9	134.9	145.6	148.1
35°	3721.0	1777.8	208.9	144.7	121.8	111.1	109.5	116.8	125.9	134.0	135.7
37.5°	3777.9	1567.3	188.5	130.9	108.5	98.8	97.0	106.1	115.3	125.0	127.5
40°	3885.7	1402.0	173.6	117.7	97.8	87.2	83.9	90.5	102.9	116.1	119.3
42.5°	4025.6	1265.4	157.2	104.6	87.2	72.5	68.4	75.6	88.8	102.9	107.0
45°	4158.9	1147.7	139.1	89.7	73.2	56.0	54.3	64.1	70.7	84.7	88.0
47.5°	4232.1	1044.0	123.3	73.2	56.8	45.3	45.3	47.7	54.3	70.7	74.0
50°	4207.3	960.9	107.0	54.3	39.4	34.6	34.6	33.7	43.6	56.8	59.3
52.5°	4158.0	913.1	92.2	42.0	27.2	24.7	22.2	24.7	30.5	36.2	37.0
55°	4150.6	905.0	77.3	33.7	19.0	16.4	12.3	12.3	12.3	11.5	9.9
57.5°	4208.2	918.2	64.9	27.2	14.0	10.7	6.6	0.0	0.0	0.0	0.0
60°	4267.4	932.1	56.0	19.0	9.9	5.7	0.8	0.0	0.0	0.0	0.0
62.5°	4168.7	900.9	46.9	11.5	7.4	2.4	0.0	0.0	0.0	0.0	0.0
65°	3661.9	766.8	37.0	8.3	4.9	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	2604.6	513.4	24.7	4.9	0.8	0.0	0.0	0.0	0.0	0.0	0.0
70°	1188.7	214.8	15.6	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	254.2	66.7	10.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	51.8	48.6	4.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	16.4	76.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	9.9	55.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	1.6	8.3	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)