

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: P268575

Luminaire Tested: **GAN-AF-06-LED-U-AFL-7027-600-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268575
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-06-LED-U-AFL-7027-600-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 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: 16683.2 lumens
Efficiency: N/A
Efficacy: 86.4 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): 193
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

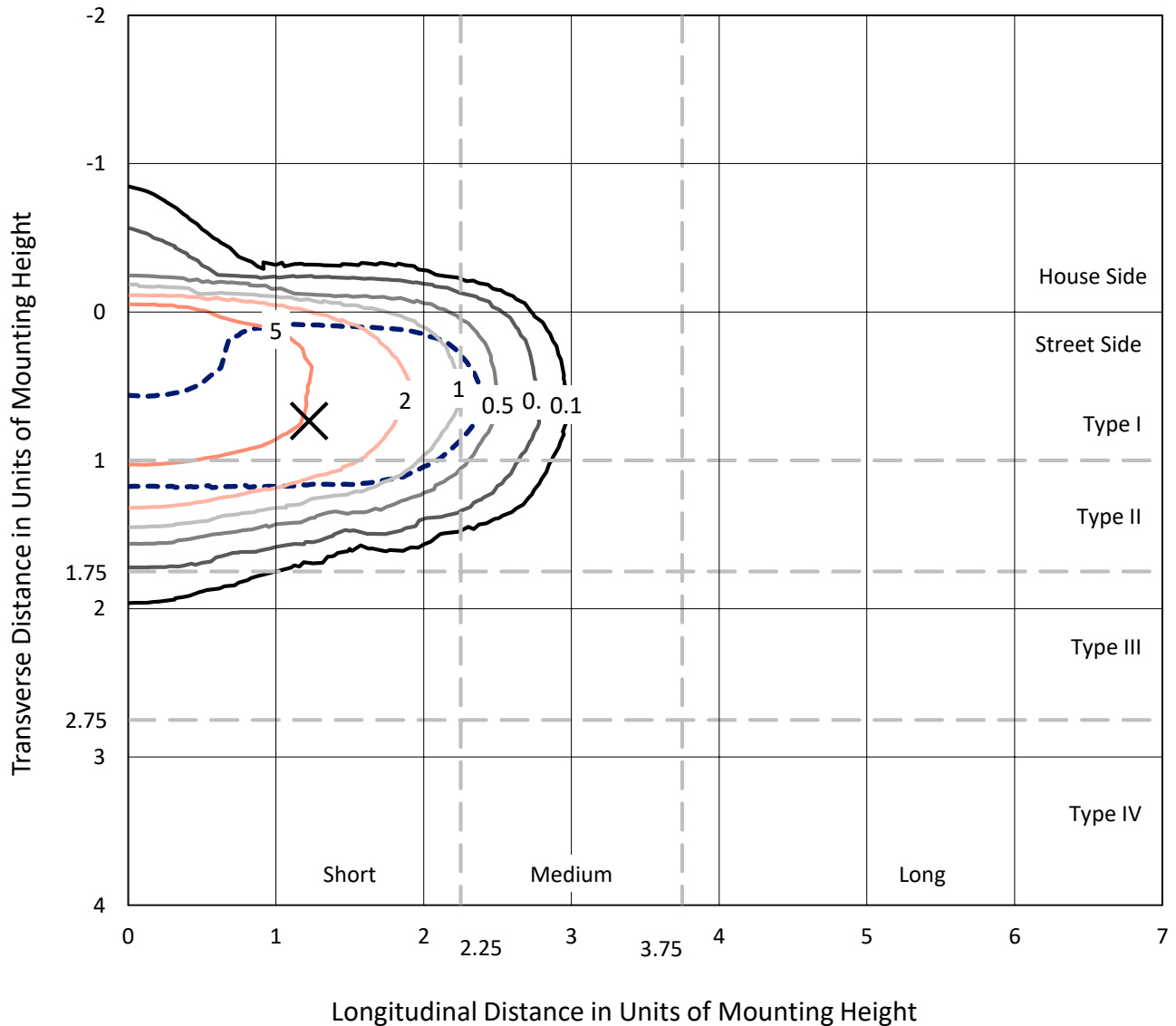


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

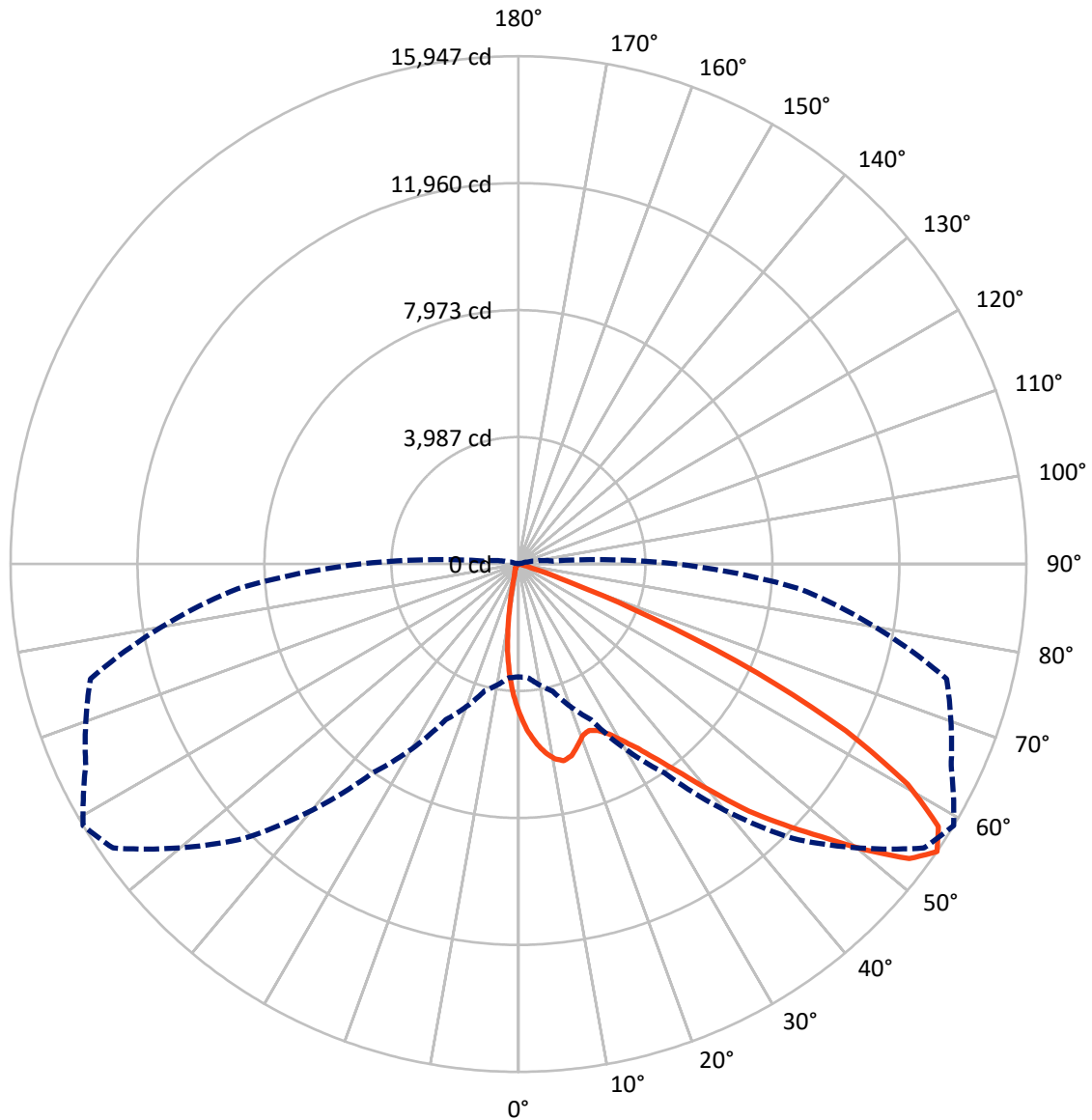


Based on 25 foot mounting height. Maximum calculated value = 9.3 fc
 Type II - Short - Full Cutoff

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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	931.8	0.0	931.8
	% Fixture	5.6	0.0	5.6
Street Side	Lumens	15751.4	0.0	15751.4
	% Fixture	94.4	0.0	94.4
Total	Lumens	16683.2	0.0	16683.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	393.4	2.4
10°-20°	941.8	5.6
20°-30°	1602.6	9.6
30°-40°	2756.1	16.5
40°-50°	4255.2	25.5
50°-60°	4277.8	25.6
60°-70°	2193.7	13.1
70°-80°	237.7	1.4
80°-90°	24.8	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°	16683.2	100.0
0°-180°	16683.2	100.0

Coefficient of Utilization



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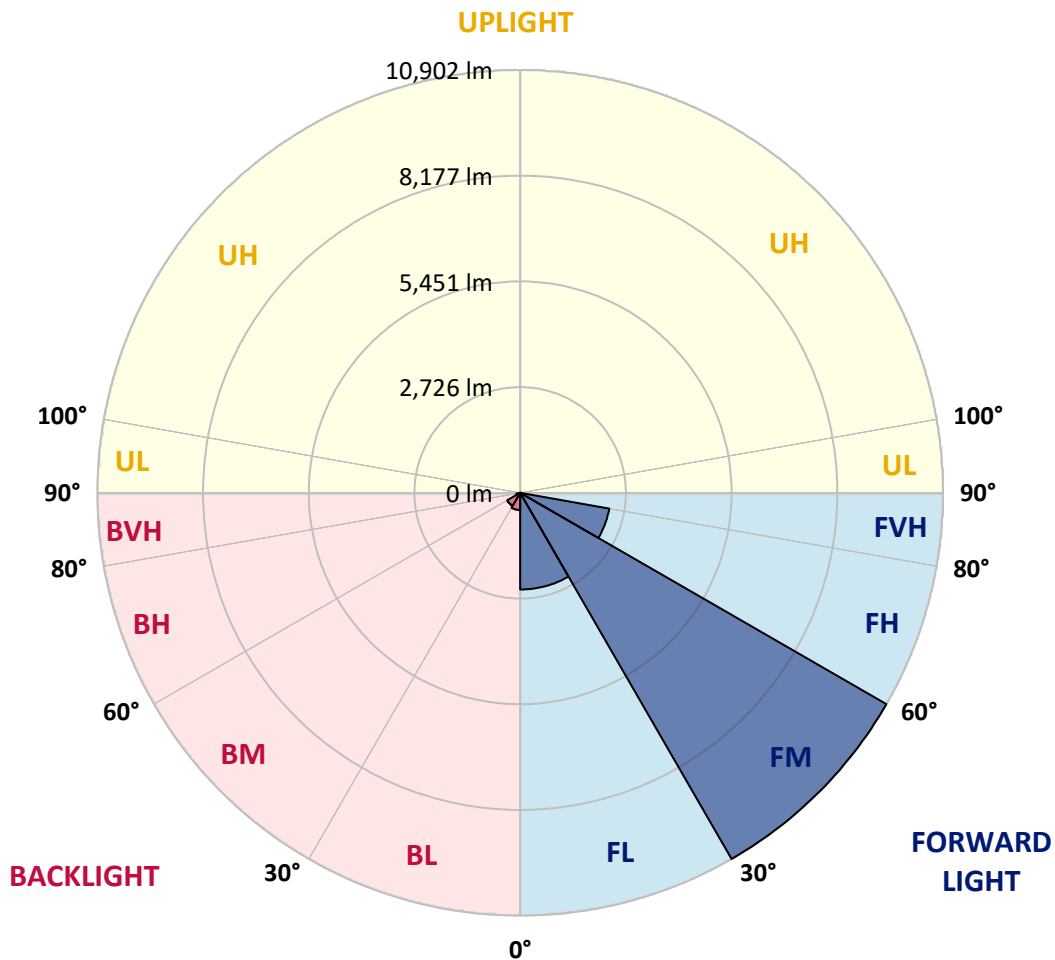
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2493.0	14.9			
FM (30°-60°)	10902.4	65.3			
FH (60°-80°)	2331.6	14.0			G2/5000
FVH (80°-90°)	24.3	0.1			G1/100
BL (0°-30°)	444.8	2.7	B1/500		
BM (30°-60°)	386.7	2.3	B1/1000		
BH (60°-80°)	99.8	0.6	B0/110		G0/110
BVH (80°-90°)	0.5	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°	4696.2	4696.2	4696.2	4696.2	4696.2	4696.2	4696.2	4696.2	4696.2	4696.2	4696.2
2.5°	5556.7	5497.6	5480.0	5468.2	5413.9	5346.1	5253.5	5210.2	5121.5	4978.9	4803.5
5°	6065.7	6054.9	6015.6	5993.9	5935.8	5839.3	5691.7	5620.8	5480.0	5239.8	4925.6
7.5°	5843.2	5911.1	5965.4	6056.0	6170.1	6166.1	6042.1	5968.2	5810.7	5493.8	5061.5
10°	4983.7	5039.0	5127.4	5333.2	5752.7	6122.8	6268.6	6215.5	6089.4	5727.1	5192.5
12.5°	4815.5	4809.4	4825.2	4885.3	5104.9	5632.6	6230.1	6337.5	6311.9	5940.8	5316.4
15°	4904.9	4898.1	4896.1	4916.9	4970.0	5192.5	5941.7	6249.9	6447.8	6138.6	5421.9
17.5°	5156.0	5126.4	5110.7	5094.0	5078.3	5133.5	5595.2	6004.7	6468.4	6311.9	5509.6
20°	5586.3	5537.1	5479.0	5384.5	5295.9	5268.3	5449.5	5752.7	6394.7	6443.8	5566.5
22.5°	6126.8	6063.7	5963.4	5791.1	5611.0	5506.5	5521.3	5672.9	6284.4	6587.6	5593.1
25°	6734.2	6653.6	6519.7	6280.4	6015.6	5830.4	5734.1	5787.2	6234.1	6756.0	5623.7
27.5°	7385.1	7295.5	7120.2	6794.3	6494.0	6243.9	6047.1	6040.2	6319.8	6976.4	5672.9
30°	8029.9	8016.1	7787.8	7443.1	7045.3	6741.2	6457.6	6421.2	6559.1	7281.8	5770.4
32.5°	8890.4	8787.0	8507.4	8152.9	7694.3	7328.9	6993.2	6908.5	6926.2	7637.1	5921.1
35°	9975.4	9862.1	9468.3	8979.0	8466.0	8034.9	7663.7	7548.5	7505.2	8219.0	6175.0
37.5°	10676.4	10674.4	10427.3	9929.1	9378.8	8903.2	8499.6	8364.7	8277.1	8922.0	6568.9
40°	10695.1	10741.4	10773.8	10768.9	10377.1	9938.9	9580.6	9414.1	9210.4	9861.1	7077.8
42.5°	10121.2	10240.1	10526.7	11013.1	11245.4	11071.3	10768.9	10605.5	10302.2	10866.3	7698.1
45°	9345.2	9428.0	9929.1	10825.0	11716.1	12193.6	11963.2	11670.8	11271.0	11914.8	8254.3
47.5°	8997.8	9012.4	9336.4	10320.0	11751.4	13113.1	13253.0	12777.4	12151.3	12759.6	8689.6
50°	7959.1	7985.7	8432.6	9444.7	11336.0	13547.2	14548.6	14097.7	13111.1	13410.4	8848.0
52.5°	5998.8	6036.3	6603.4	8006.4	10194.0	13362.2	15476.0	15366.8	14162.7	13728.4	8857.0
55°	3539.4	3588.6	4130.1	5389.4	8018.1	12184.7	15544.9	15946.6	14992.6	13916.5	8843.2
57.5°	1653.1	1687.5	1997.7	2776.4	4986.8	9629.8	14507.3	15548.9	15450.4	14016.0	8940.7
60°	878.3	888.1	962.9	1202.1	2253.6	6106.0	12481.9	14040.6	15033.0	14153.8	9059.8
62.5°	671.5	674.4	670.5	699.1	947.2	2710.5	9434.9	11542.9	13352.3	14050.4	8927.9
65°	581.8	586.9	559.3	552.3	607.4	966.8	5605.1	8227.8	10492.3	12655.3	8029.0
67.5°	521.8	523.8	490.4	461.8	471.6	522.9	2211.3	4504.3	6944.9	9276.3	5819.6
70°	480.5	478.4	442.1	396.8	383.9	357.3	703.0	1651.1	3318.9	4704.2	2706.6
72.5°	425.3	426.3	408.5	349.5	319.0	250.1	325.8	481.4	990.4	1281.9	634.1
75°	377.1	372.2	350.5	313.1	262.8	164.4	161.4	214.7	305.2	303.3	136.8
77.5°	272.7	267.8	274.7	256.9	201.8	106.3	80.8	103.3	124.1	120.2	38.4
80°	199.9	196.9	177.2	213.6	178.3	72.9	50.2	55.2	64.0	54.2	11.8
82.5°	136.8	135.9	125.0	118.1	101.4	44.2	31.5	34.5	41.3	30.5	5.8
85°	21.6	24.7	90.5	71.9	60.0	19.8	21.6	23.6	27.6	16.8	1.9
87.5°	0.0	0.0	42.3	37.4	11.8	7.8	12.8	13.7	13.7	8.9	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°	4696.2	4696.2	4696.2	4696.2	4696.2	4696.2	4696.2	4696.2	4696.2	4696.2	4696.2
2.5°	4713.9	4615.5	4433.3	4245.3	4071.1	3863.3	3720.6	3613.3	3489.2	3455.7	3528.6
5°	4746.5	4560.3	4168.6	3742.2	3341.5	2897.6	2557.8	2289.2	2045.9	1963.2	2038.1
7.5°	4797.7	4521.0	3882.0	3180.1	2483.1	1790.0	1315.4	1003.2	804.3	745.4	776.9
10°	4849.0	4463.9	3550.2	2514.5	1561.4	871.4	567.1	452.8	410.5	401.7	406.7
12.5°	4891.2	4387.1	3145.7	1787.9	834.9	466.7	371.2	352.4	346.6	346.6	348.5
15°	4916.9	4270.9	2666.1	1137.2	480.5	352.4	323.8	318.0	318.0	319.0	321.0
17.5°	4913.9	4123.3	2141.4	688.2	359.3	312.2	295.4	290.4	289.4	291.4	292.4
20°	4877.3	3930.3	1614.7	453.9	313.1	284.6	267.8	258.9	258.0	259.9	261.9
22.5°	4808.4	3692.0	1155.0	349.5	282.5	258.0	237.3	229.3	229.3	231.4	233.3
25°	4724.8	3400.7	789.6	296.4	254.9	229.3	209.8	202.7	204.8	209.8	210.7
27.5°	4620.4	3072.7	536.6	254.0	221.5	200.9	186.0	181.2	186.0	193.0	194.9
30°	4531.0	2731.1	382.9	219.5	188.0	173.3	164.4	164.4	171.2	184.2	187.0
32.5°	4461.9	2400.4	295.4	193.9	163.4	150.6	145.7	150.6	161.4	174.4	177.2
35°	4453.1	2127.5	250.1	173.3	145.7	132.9	131.0	139.7	150.6	160.4	162.5
37.5°	4521.0	1875.5	225.5	156.6	130.0	118.1	116.2	127.0	137.8	149.7	152.6
40°	4649.9	1677.7	207.8	140.8	117.1	104.4	100.4	108.2	123.1	138.8	142.8
42.5°	4817.4	1514.3	188.0	125.0	104.4	86.6	81.7	90.5	106.3	123.1	128.0
45°	4976.9	1373.5	166.4	107.3	87.7	67.0	64.9	76.7	84.7	101.4	105.3
47.5°	5064.5	1249.5	147.7	87.7	67.9	54.2	54.2	57.1	64.9	84.7	88.7
50°	5034.9	1149.9	128.0	64.9	47.3	41.3	41.3	40.3	52.2	67.9	70.8
52.5°	4975.9	1092.9	110.2	50.2	32.5	29.6	26.6	29.6	36.4	43.3	44.2
55°	4967.0	1082.9	92.5	40.3	22.6	19.8	14.7	14.7	14.7	13.7	11.8
57.5°	5036.0	1098.7	77.8	32.5	16.8	12.8	7.8	0.0	0.0	0.0	0.0
60°	5106.9	1115.4	67.0	22.6	11.8	6.8	1.0	0.0	0.0	0.0	0.0
62.5°	4988.6	1078.1	56.1	13.7	8.9	3.0	0.0	0.0	0.0	0.0	0.0
65°	4382.2	917.6	44.2	9.8	5.8	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	3117.1	614.4	29.6	5.8	1.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	1422.6	256.9	18.8	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	304.3	79.8	12.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	62.1	58.1	4.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	19.8	91.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	11.8	65.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	1.9	9.8	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)