

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: P268895

Luminaire Tested: **GAN-AF-10-LED-U-AFL-7027-600-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268895
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-10-LED-U-AFL-7027-600-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 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: 27608.1 lumens
Efficiency: N/A
Efficacy: 85.5 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B2 - U0 - G2

Input Watts (W): 323
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

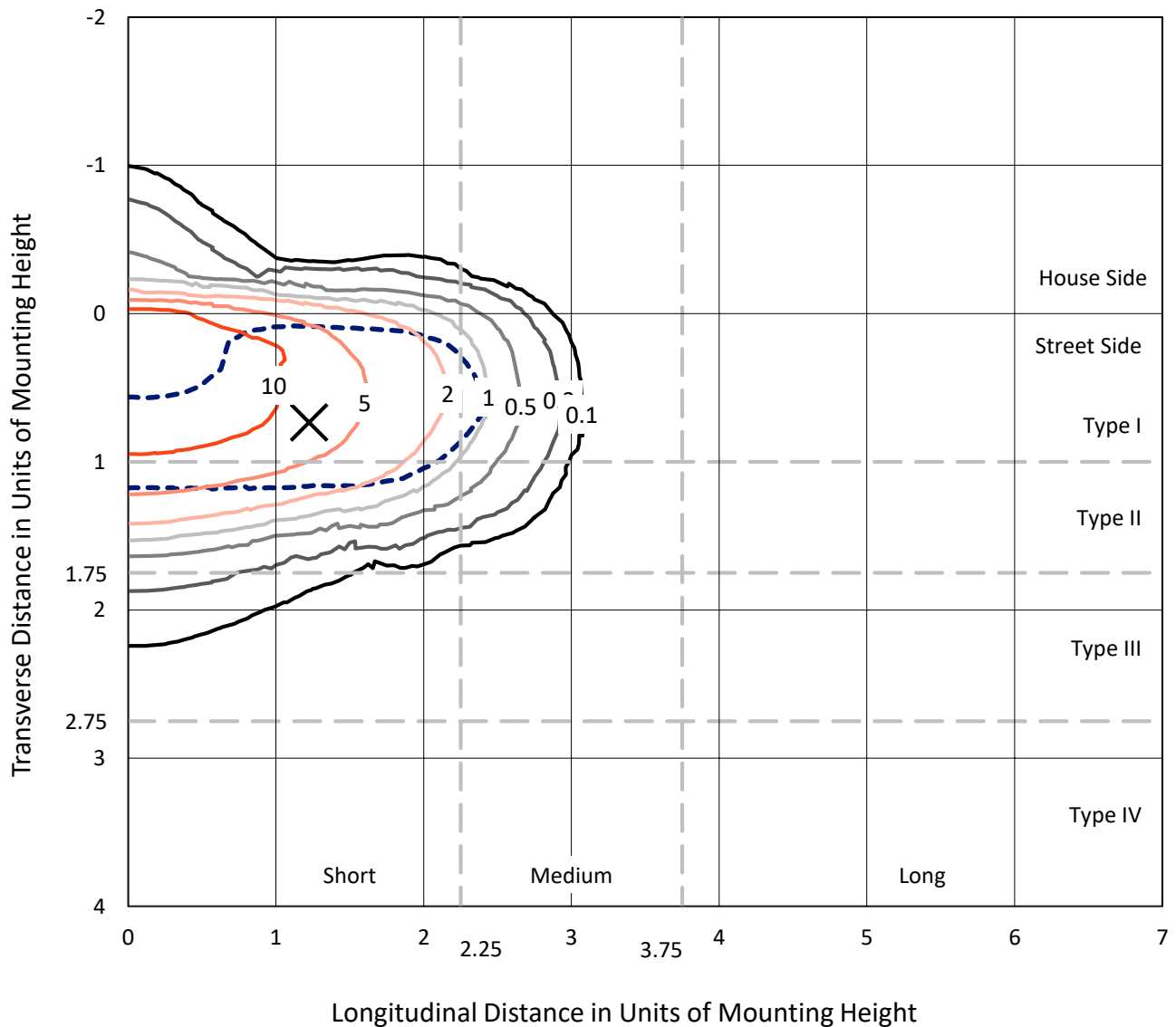


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

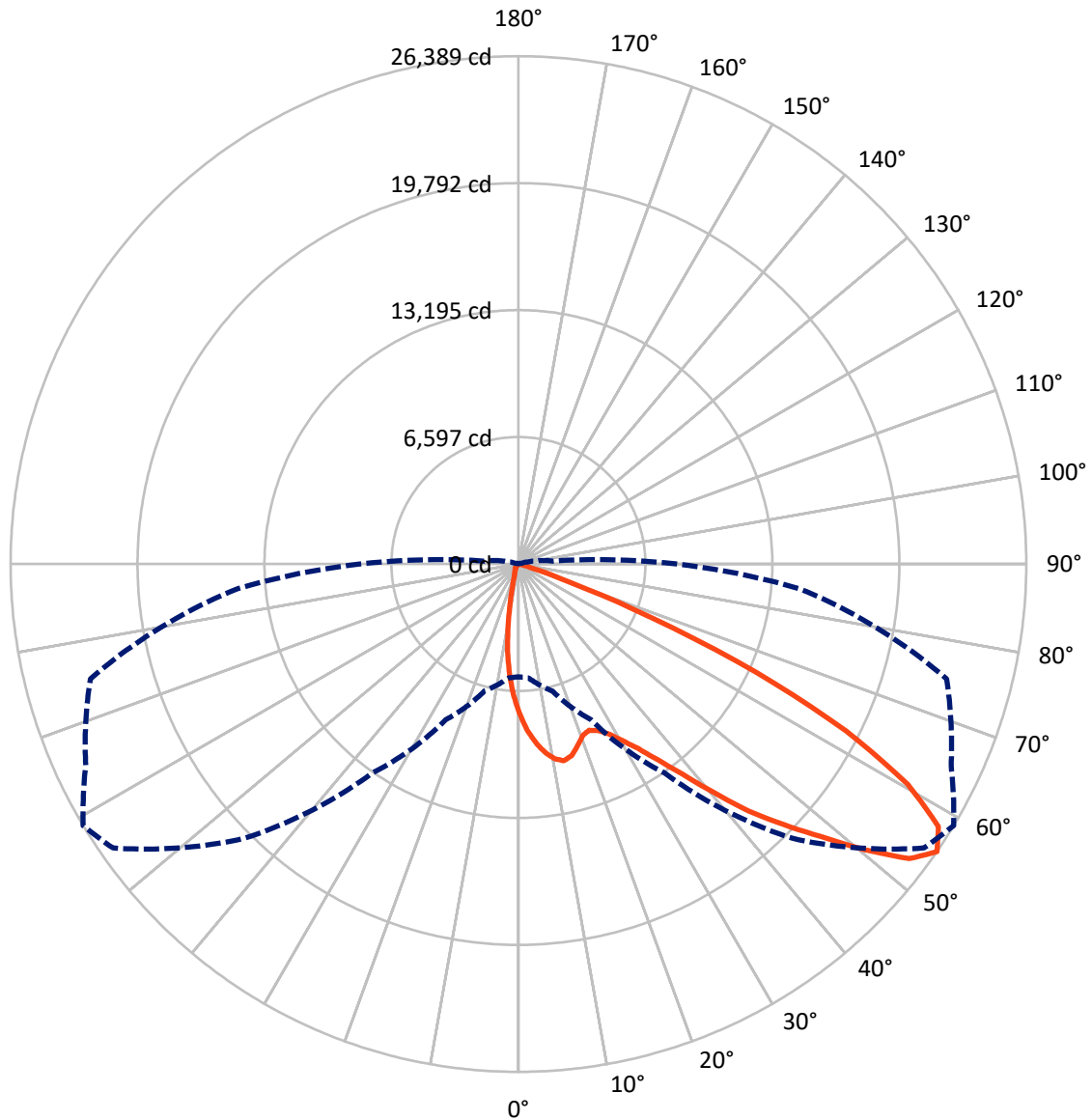


Based on 25 foot mounting height. Maximum calculated value = 15.5 fc
 Type II - Short - Full Cutoff

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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	1542.1	0.0	1542.1
	% Fixture	5.6	0.0	5.6
Street Side	Lumens	26066.0	0.0	26066.0
	% Fixture	94.4	0.0	94.4
Total	Lumens	27608.1	0.0	27608.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	650.9	2.4
10°-20°	1558.6	5.6
20°-30°	2652.1	9.6
30°-40°	4561.0	16.5
40°-50°	7041.7	25.5
50°-60°	7079.1	25.6
60°-70°	3630.2	13.1
70°-80°	393.4	1.4
80°-90°	41.1	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°	27608.1	100.0
0°-180°	27608.1	100.0

Coefficient of Utilization



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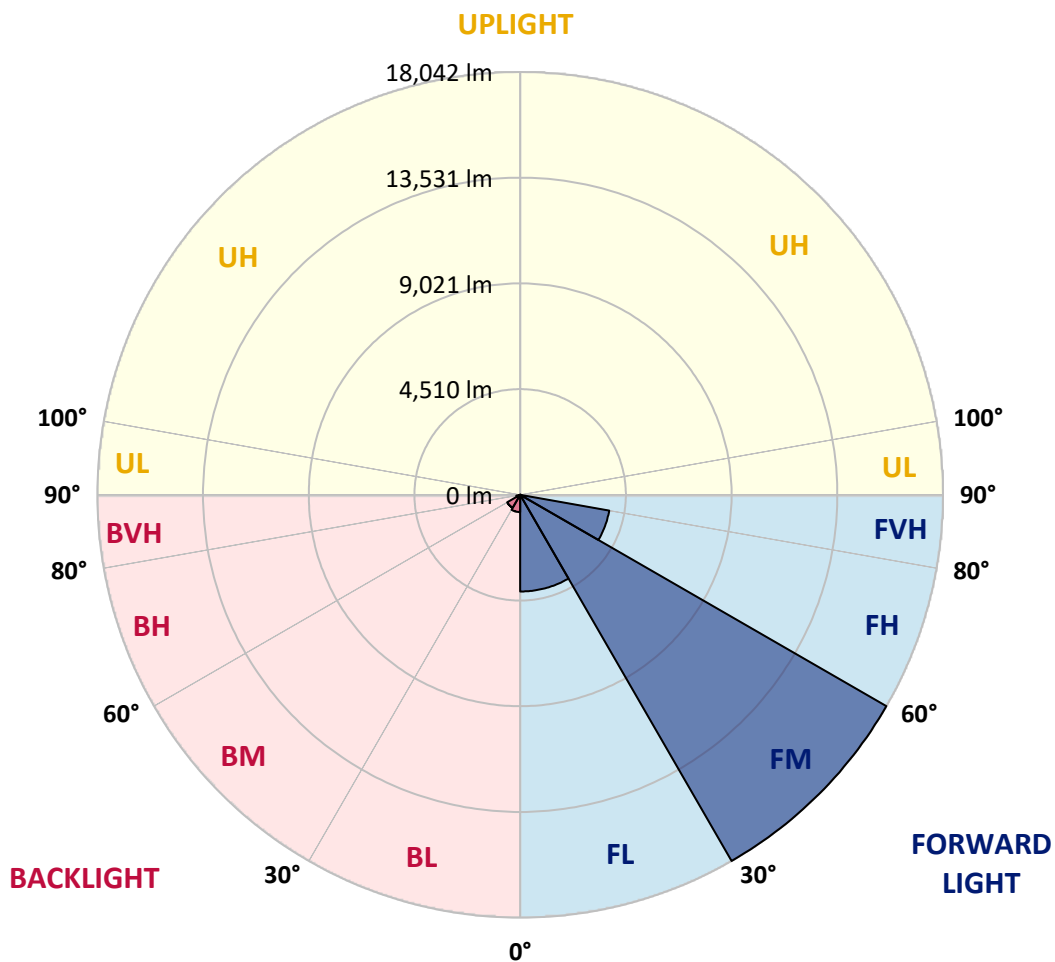
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4125.6	14.9			
FM	(30°-60°)	18041.8	65.3			
FH	(60°-80°)	3858.4	14.0			G2/5000
FVH	(80°-90°)	40.3	0.1			G1/100
BL	(0°-30°)	736.0	2.7	B2/1000		
BM	(30°-60°)	640.0	2.3	B1/1000		
BH	(60°-80°)	165.2	0.6	B1/500		G1/500
BVH	(80°-90°)	0.8	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	7771.5	7771.5	7771.5	7771.5	7771.5	7771.5	7771.5	7771.5	7771.5	7771.5	7771.5
2.5°	9195.6	9097.9	9068.5	9048.9	8959.3	8846.9	8693.7	8622.0	8475.4	8239.2	7949.2
5°	10037.9	10020.0	9954.7	9918.9	9822.8	9663.2	9418.8	9301.5	9068.5	8670.9	8151.2
7.5°	9669.6	9782.2	9871.7	10021.6	10210.6	10204.0	9998.8	9876.5	9615.8	9091.2	8376.1
10°	8247.2	8338.5	8485.2	8825.7	9519.8	10132.4	10373.4	10285.6	10076.9	9477.4	8592.7
12.5°	7968.8	7959.0	7985.0	8084.3	8447.8	9321.1	10309.9	10487.5	10445.2	9831.1	8798.0
15°	8116.9	8105.5	8102.4	8136.6	8224.5	8592.7	9832.6	10342.5	10670.1	10158.5	8972.4
17.5°	8532.5	8483.6	8457.5	8429.9	8403.7	8495.0	9259.1	9937.0	10704.3	10445.2	9117.3
20°	9244.5	9163.0	9066.9	8910.5	8763.9	8718.2	9017.9	9519.8	10582.0	10663.5	9211.8
22.5°	10138.9	10034.6	9868.4	9583.3	9285.2	9112.4	9136.9	9387.7	10399.6	10901.4	9255.9
25°	11144.2	11010.5	10789.0	10393.1	9954.7	9648.4	9488.8	9576.8	10316.5	11179.9	9306.4
27.5°	12221.1	12072.9	11782.8	11243.5	10746.7	10332.8	10006.8	9995.5	10458.2	11544.9	9387.7
30°	13288.3	13265.5	12887.4	12317.2	11659.0	11155.5	10686.3	10626.1	10854.1	12050.0	9549.2
32.5°	14712.3	14541.1	14078.4	13492.0	12732.7	12128.2	11572.7	11432.5	11461.8	12638.2	9798.4
35°	16507.7	16320.2	15668.5	14858.9	14010.1	13296.4	12682.2	12491.6	12419.8	13601.1	10218.7
37.5°	17667.8	17664.5	17255.5	16431.1	15520.3	14733.5	14065.4	13842.3	13697.1	14764.4	10870.4
40°	17698.6	17775.2	17829.0	17820.8	17172.4	16447.3	15854.4	15578.9	15241.7	16318.7	11712.8
42.5°	16748.8	16945.9	17420.0	18225.0	18609.4	18321.0	17820.8	17550.4	17048.7	17982.1	12739.3
45°	15465.0	15601.9	16431.1	17913.7	19388.2	20178.4	19797.1	19313.3	18651.8	19717.3	13659.7
47.5°	14889.9	14914.3	15450.3	17077.9	19446.9	21700.1	21931.5	21144.6	20108.4	21115.2	14379.9
50°	13170.9	13215.0	13954.6	15629.5	18759.3	22418.6	24075.7	23329.4	21696.9	22192.2	14642.2
52.5°	9927.1	9989.1	10927.4	13249.1	16869.5	22112.4	25610.4	25429.5	23436.9	22718.5	14656.8
55°	5857.2	5938.6	6834.8	8918.6	13268.8	20163.7	25724.5	26389.1	24810.4	23029.6	14634.0
57.5°	2735.5	2792.6	3305.8	4594.6	8252.2	15935.8	24007.2	25731.0	25568.0	23194.1	14795.4
60°	1453.3	1469.5	1593.5	1989.3	3729.4	10104.7	20655.7	23234.9	24877.2	23422.2	14992.4
62.5°	1111.2	1116.1	1109.5	1156.7	1567.4	4485.3	15613.3	19101.5	22096.1	23251.2	14774.2
65°	963.0	971.1	925.4	914.0	1005.3	1599.9	9275.4	13615.7	17363.0	20942.5	13286.7
67.5°	863.5	866.8	811.3	764.1	780.4	865.2	3659.3	7453.9	11492.8	15350.9	9630.5
70°	795.1	791.9	731.5	656.7	635.5	591.4	1163.2	2732.3	5492.2	7784.6	4478.8
72.5°	703.8	705.4	676.2	578.4	527.8	413.8	539.3	796.6	1639.0	2121.3	1049.2
75°	624.1	615.9	580.0	518.1	435.0	272.0	267.2	355.2	505.0	501.9	226.5
77.5°	451.3	443.1	454.5	425.3	334.0	176.0	133.6	171.0	205.4	198.7	63.5
80°	330.8	325.8	293.2	353.6	295.0	120.6	83.2	91.3	105.9	89.7	19.6
82.5°	226.5	224.8	206.9	195.6	167.9	73.3	52.1	57.0	68.5	50.6	9.8
85°	35.8	40.8	149.8	118.9	99.4	32.6	35.8	39.0	45.6	27.7	3.2
87.5°	0.0	0.0	70.1	62.0	19.6	13.0	21.2	22.7	22.7	14.6	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°	7771.5	7771.5	7771.5	7771.5	7771.5	7771.5	7771.5	7771.5	7771.5	7771.5	7771.5
2.5°	7800.9	7638.0	7336.5	7025.4	6737.0	6393.1	6157.0	5979.4	5774.0	5718.7	5839.3
5°	7854.7	7546.8	6898.4	6192.8	5529.6	4795.0	4232.9	3788.1	3385.6	3248.7	3372.5
7.5°	7939.4	7481.5	6424.1	5262.5	4108.9	2962.0	2176.8	1660.2	1331.1	1233.4	1285.5
10°	8024.1	7387.1	5875.2	4161.0	2584.1	1441.9	938.5	749.5	679.4	664.7	672.9
12.5°	8094.2	7260.0	5205.5	2958.7	1381.7	772.3	614.3	583.3	573.5	573.5	576.7
15°	8136.6	7067.8	4412.0	1881.8	795.1	583.3	536.0	526.2	526.2	527.8	531.2
17.5°	8131.6	6823.3	3543.6	1138.8	594.7	516.4	488.8	480.7	478.9	482.3	483.8
20°	8071.5	6504.0	2672.0	751.2	518.1	470.8	443.1	428.5	426.9	430.1	433.4
22.5°	7957.4	6109.7	1911.1	578.4	467.6	426.9	392.6	379.7	379.7	382.9	386.1
25°	7818.8	5627.4	1306.7	490.5	421.9	379.7	347.0	335.6	338.9	347.0	348.6
27.5°	7646.2	5084.9	888.0	420.3	366.6	332.4	307.8	299.8	307.8	319.3	322.6
30°	7497.9	4519.6	633.8	363.4	311.3	286.7	272.0	272.0	283.4	304.6	309.6
32.5°	7383.8	3972.1	488.8	321.0	270.5	249.3	241.1	249.3	267.2	288.4	293.2
35°	7369.2	3520.8	413.8	286.7	241.1	219.9	216.8	231.4	249.3	265.5	268.9
37.5°	7481.5	3103.7	373.1	259.0	215.1	195.6	192.2	210.2	228.1	247.7	252.6
40°	7695.1	2776.2	343.8	233.0	193.9	172.7	166.1	179.2	203.6	229.7	236.3
42.5°	7972.0	2505.8	311.3	206.9	172.7	143.4	135.3	149.8	176.0	203.6	211.8
45°	8235.9	2272.8	275.3	177.5	144.9	110.9	107.5	127.1	140.1	167.9	174.4
47.5°	8380.9	2067.4	244.3	144.9	112.4	89.7	89.7	94.5	107.5	140.1	146.7
50°	8332.0	1903.0	211.8	107.5	78.2	68.5	68.5	66.8	86.3	112.4	117.3
52.5°	8234.4	1808.5	182.4	83.2	53.8	48.9	43.9	48.9	60.2	71.7	73.3
55°	8219.6	1792.2	153.2	66.8	37.5	32.6	24.4	24.4	24.4	22.7	19.6
57.5°	8333.7	1818.3	128.6	53.8	27.7	21.2	13.0	0.0	0.0	0.0	0.0
60°	8451.0	1845.9	110.9	37.5	19.6	11.4	1.6	0.0	0.0	0.0	0.0
62.5°	8255.5	1784.0	92.9	22.7	14.6	4.9	0.0	0.0	0.0	0.0	0.0
65°	7251.8	1518.5	73.3	16.3	9.8	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	5158.2	1016.6	48.9	9.8	1.6	0.0	0.0	0.0	0.0	0.0	0.0
70°	2354.3	425.3	30.9	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	503.4	132.1	21.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	102.6	96.1	8.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	32.6	151.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	19.6	109.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	3.2	16.3	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)