

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: P268737

Luminaire Tested: **GAN-AF-08-LED-U-AFL-7027-800-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268737
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-08-LED-U-AFL-7027-800-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 800mA 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: 27412.8 lumens
Efficiency: N/A
Efficacy: 82.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B2 - U0 - G2

Input Watts (W): 334
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

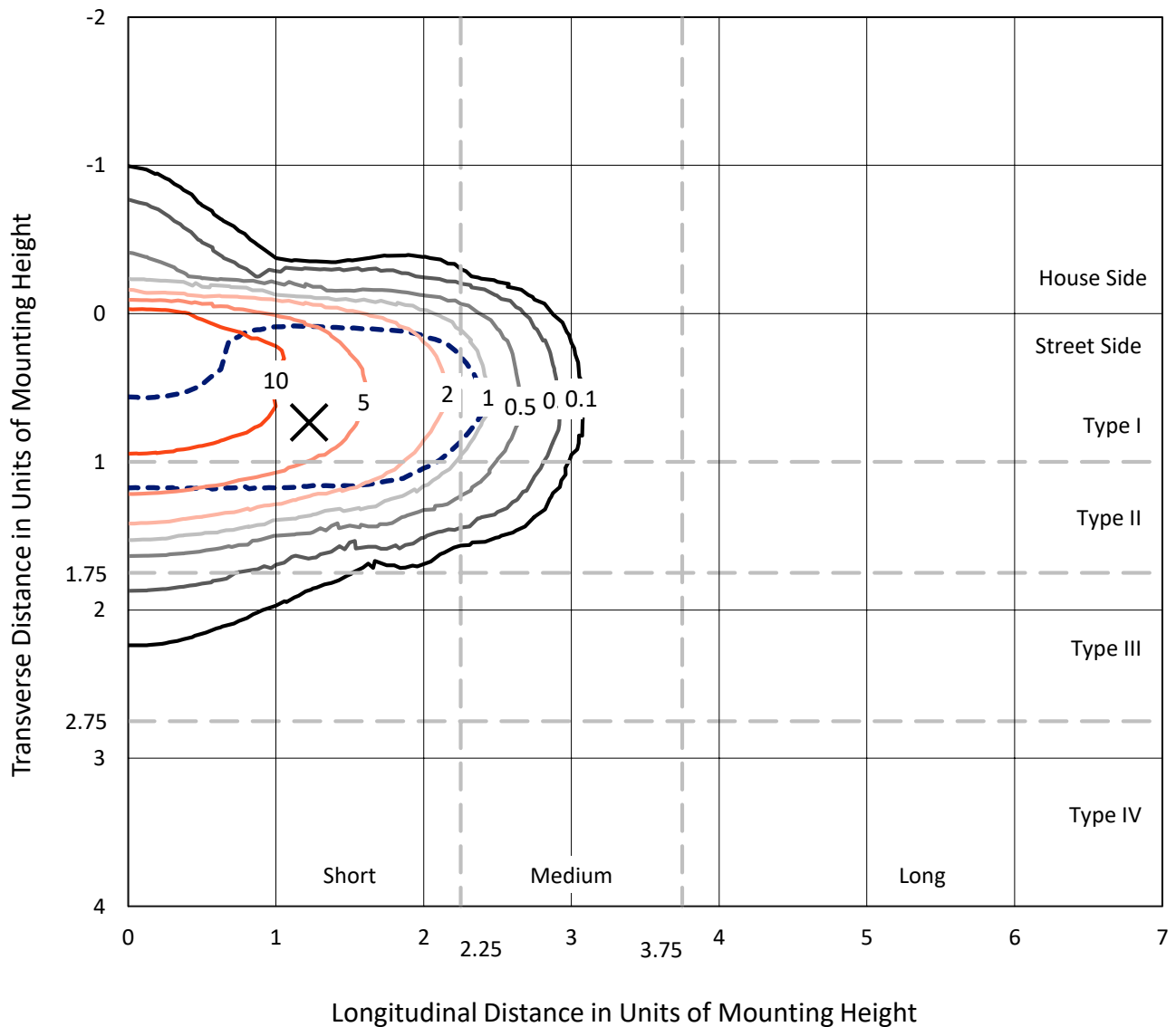


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

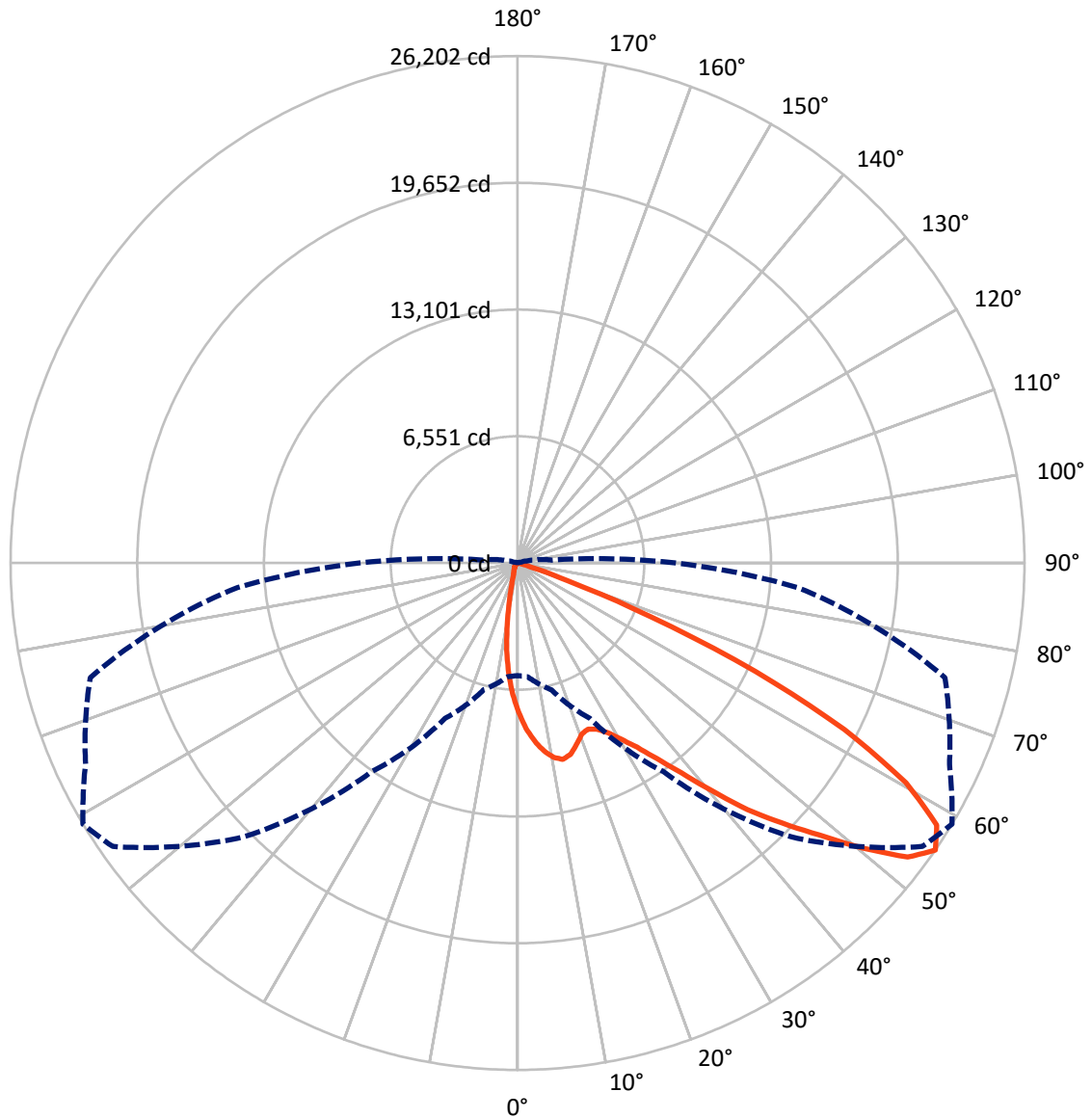


Based on 25 foot mounting height. Maximum calculated value = 15.4 fc
 Type II - Short - Full Cutoff

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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	1531.2	0.0	1531.2
	% Fixture	5.6	0.0	5.6
Street Side	Lumens	25881.6	0.0	25881.6
	% Fixture	94.4	0.0	94.4
Total	Lumens	27412.8	0.0	27412.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	646.3	2.4
10°-20°	1547.5	5.6
20°-30°	2633.3	9.6
30°-40°	4528.7	16.5
40°-50°	6991.8	25.5
50°-60°	7029.0	25.6
60°-70°	3604.5	13.1
70°-80°	390.6	1.4
80°-90°	40.8	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°	27412.8	100.0
0°-180°	27412.8	100.0

Coefficient of Utilization



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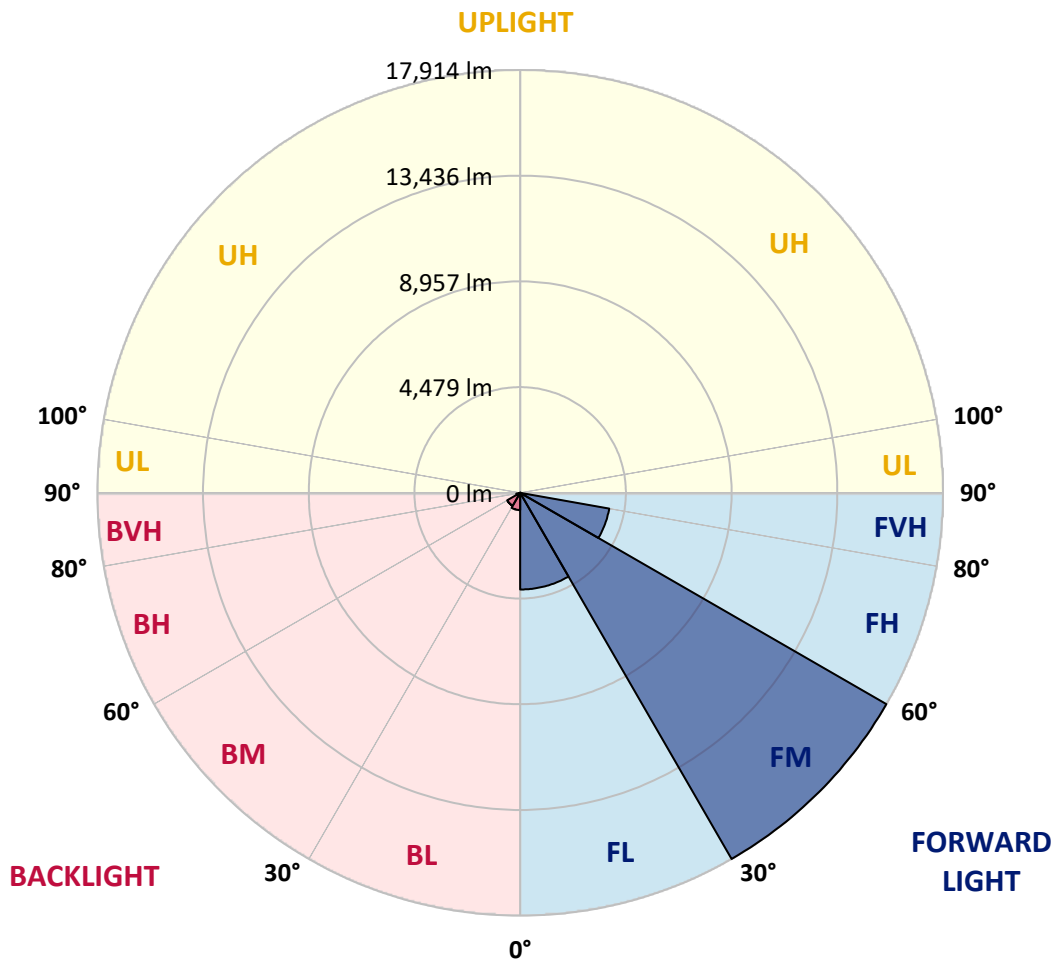
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4096.4	14.9			
FM	(30°-60°)	17914.1	65.3			
FH	(60°-80°)	3831.1	14.0			G2/5000
FVH	(80°-90°)	40.0	0.1			G1/100
BL	(0°-30°)	730.8	2.7	B2/1000		
BM	(30°-60°)	635.5	2.3	B1/1000		
BH	(60°-80°)	164.0	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°	7716.6	7716.6	7716.6	7716.6	7716.6	7716.6	7716.6	7716.6	7716.6	7716.6	7716.6
2.5°	9130.6	9033.4	9004.3	8984.8	8895.9	8784.3	8632.3	8561.0	8415.4	8180.9	7893.0
5°	9966.9	9949.1	9884.4	9848.7	9753.3	9594.7	9352.2	9235.7	9004.3	8609.5	8093.5
7.5°	9601.3	9712.8	9801.9	9950.6	10138.4	10131.9	9928.1	9806.6	9547.8	9027.0	8316.8
10°	8188.9	8279.6	8425.2	8763.2	9452.4	10060.7	10300.1	10212.8	10005.7	9410.4	8531.9
12.5°	7912.4	7902.6	7928.5	8027.3	8388.0	9255.1	10237.1	10413.3	10371.3	9761.4	8735.7
15°	8059.6	8048.3	8045.0	8078.9	8166.3	8531.9	9763.0	10269.3	10594.5	10086.6	8908.9
17.5°	8472.0	8423.5	8397.6	8370.1	8344.3	8434.8	9193.7	9866.5	10628.6	10371.3	9052.8
20°	9179.1	9098.2	9002.8	8847.3	8701.8	8656.4	8954.1	9452.4	10507.1	10588.1	9146.7
22.5°	10067.1	9963.6	9798.6	9515.6	9219.5	9048.0	9072.3	9321.4	10325.9	10824.2	9190.4
25°	11065.3	10932.6	10712.6	10319.5	9884.4	9580.2	9421.8	9509.1	10243.6	11101.0	9240.5
27.5°	12134.7	11987.4	11699.4	11164.0	10670.5	10259.7	9936.2	9924.8	10384.2	11463.4	9321.4
30°	13194.2	13171.6	12796.3	12230.1	11576.5	11076.6	10610.7	10550.9	10777.3	11964.7	9481.5
32.5°	14608.1	14438.3	13978.9	13396.5	12642.6	12042.4	11490.8	11351.6	11380.7	12548.8	9729.1
35°	16391.0	16204.9	15557.7	14753.8	13911.0	13202.3	12592.4	12403.2	12332.0	13504.8	10146.4
37.5°	17542.7	17539.4	17133.5	16314.8	15410.6	14629.2	13965.9	13744.2	13600.2	14659.9	10793.6
40°	17573.5	17649.4	17702.9	17694.9	17050.9	16331.0	15742.2	15468.9	15133.9	16203.3	11629.8
42.5°	16630.3	16826.1	17296.9	18095.9	18477.7	18191.4	17694.9	17426.2	16928.0	17854.9	12649.0
45°	15355.5	15491.5	16314.8	17787.0	19251.0	20035.6	19657.2	19176.7	18519.8	19577.8	13563.1
47.5°	14784.5	14808.7	15341.0	16957.0	19309.2	21546.7	21776.4	20994.9	19966.1	20965.8	14278.1
50°	13077.7	13121.5	13855.8	15518.8	18626.6	22260.0	23905.2	23164.4	21543.4	22035.2	14538.6
52.5°	9856.8	9918.4	10850.2	13155.4	16750.1	21956.0	25429.2	25249.6	23271.1	22557.7	14553.1
55°	5815.7	5896.7	6786.3	8855.5	13174.8	20021.2	25542.4	26202.4	24634.8	22866.6	14530.5
57.5°	2716.1	2772.8	3282.3	4562.0	8193.8	15823.0	23837.3	25549.0	25387.1	23030.0	14690.6
60°	1442.9	1459.1	1582.2	1975.3	3703.1	10033.2	20509.7	23070.5	24701.2	23256.6	14886.4
62.5°	1103.3	1108.1	1101.7	1148.7	1556.3	4453.6	15502.8	18966.4	21939.8	23086.7	14669.6
65°	956.1	964.2	918.8	907.6	998.1	1588.7	9209.8	13519.4	17240.2	20794.3	13192.6
67.5°	857.4	860.7	805.6	758.7	774.9	859.0	3633.5	7401.1	11411.4	15242.4	9562.5
70°	789.5	786.2	726.4	651.9	630.9	587.2	1155.1	2712.9	5453.4	7729.6	4447.1
72.5°	698.8	700.5	671.4	574.2	524.2	411.0	535.5	791.0	1627.4	2106.3	1041.9
75°	619.7	611.4	576.0	514.4	431.9	270.2	265.3	352.7	501.6	498.3	224.8
77.5°	448.2	440.0	451.4	422.3	331.7	174.7	132.7	169.9	203.8	197.4	63.2
80°	328.4	323.6	291.2	351.1	292.8	119.7	82.6	90.5	105.1	89.0	19.5
82.5°	224.8	223.3	205.4	194.2	166.6	72.9	51.7	56.7	67.9	50.1	9.7
85°	35.7	40.5	148.8	118.0	98.6	32.3	35.7	38.8	45.4	27.5	3.2
87.5°	0.0	0.0	69.6	61.4	19.5	12.9	21.0	22.6	22.6	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°	7716.6	7716.6	7716.6	7716.6	7716.6	7716.6	7716.6	7716.6	7716.6	7716.6	7716.6
2.5°	7745.7	7583.9	7284.6	6975.7	6689.3	6348.1	6113.4	5937.1	5733.3	5678.2	5798.0
5°	7799.2	7493.3	6849.4	6149.0	5490.6	4760.9	4202.9	3761.3	3361.6	3225.8	3348.7
7.5°	7883.3	7428.7	6378.8	5225.4	4079.9	2941.1	2161.3	1648.5	1321.6	1224.6	1276.4
10°	7967.3	7334.8	5833.6	4131.8	2565.6	1431.7	931.8	744.2	674.5	660.1	668.1
12.5°	8036.9	7208.5	5168.7	2937.7	1371.8	766.9	609.9	579.1	569.4	569.4	572.7
15°	8078.9	7017.6	4380.9	1868.5	789.5	579.1	532.2	522.5	522.5	524.2	527.3
17.5°	8074.1	6775.0	3518.7	1130.7	590.5	512.8	485.4	477.2	475.7	478.8	480.5
20°	8014.3	6457.9	2653.1	745.8	514.4	467.5	440.0	425.4	423.8	427.1	430.3
22.5°	7901.0	6066.6	1897.6	574.2	464.3	423.8	389.9	376.8	376.8	380.2	383.3
25°	7763.5	5587.6	1297.4	486.9	419.0	376.8	344.6	333.2	336.4	344.6	346.1
27.5°	7592.0	5049.0	881.6	417.4	364.1	329.9	305.8	297.7	305.8	317.1	320.3
30°	7444.9	4487.7	629.4	360.8	308.9	284.8	270.2	270.2	281.4	302.5	307.4
32.5°	7331.5	3944.1	485.4	318.7	268.6	247.6	239.4	247.6	265.3	286.3	291.2
35°	7317.1	3495.9	411.0	284.8	239.4	218.4	215.1	229.7	247.6	263.7	266.9
37.5°	7428.7	3081.7	370.6	257.3	213.5	194.2	190.9	208.6	226.6	245.9	250.7
40°	7640.5	2756.5	341.4	231.4	192.4	171.4	165.0	178.0	202.2	228.1	234.5
42.5°	7915.5	2488.0	308.9	205.4	171.4	142.3	134.2	148.8	174.7	202.2	210.4
45°	8177.6	2256.7	273.4	176.3	144.0	110.0	106.8	126.2	139.1	166.6	173.2
47.5°	8321.5	2052.8	242.6	144.0	111.6	89.0	89.0	93.9	106.8	139.1	145.5
50°	8273.1	1889.6	210.4	106.8	77.7	67.9	67.9	66.4	85.8	111.6	116.5
52.5°	8176.1	1795.7	181.2	82.6	53.4	48.5	43.7	48.5	59.8	71.1	72.9
55°	8161.6	1779.5	152.1	66.4	37.2	32.3	24.3	24.3	24.3	22.6	19.5
57.5°	8274.6	1805.5	127.7	53.4	27.5	21.0	12.9	0.0	0.0	0.0	0.0
60°	8391.2	1832.9	110.0	37.2	19.5	11.3	1.5	0.0	0.0	0.0	0.0
62.5°	8197.0	1771.4	92.3	22.6	14.6	4.9	0.0	0.0	0.0	0.0	0.0
65°	7200.5	1507.7	72.9	16.2	9.7	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	5121.7	1009.4	48.5	9.7	1.5	0.0	0.0	0.0	0.0	0.0	0.0
70°	2337.6	422.3	30.7	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	499.8	131.1	21.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	101.9	95.4	8.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	32.3	150.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	19.5	108.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	3.2	16.2	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)