

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: P268419

Luminaire Tested: **GAN-AF-04-LED-U-AFL-7027-1200-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268419
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-04-LED-U-AFL-7027-1200-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 1200mA 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: 18734.5 lumens
Efficiency: N/A
Efficacy: 72.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 258
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

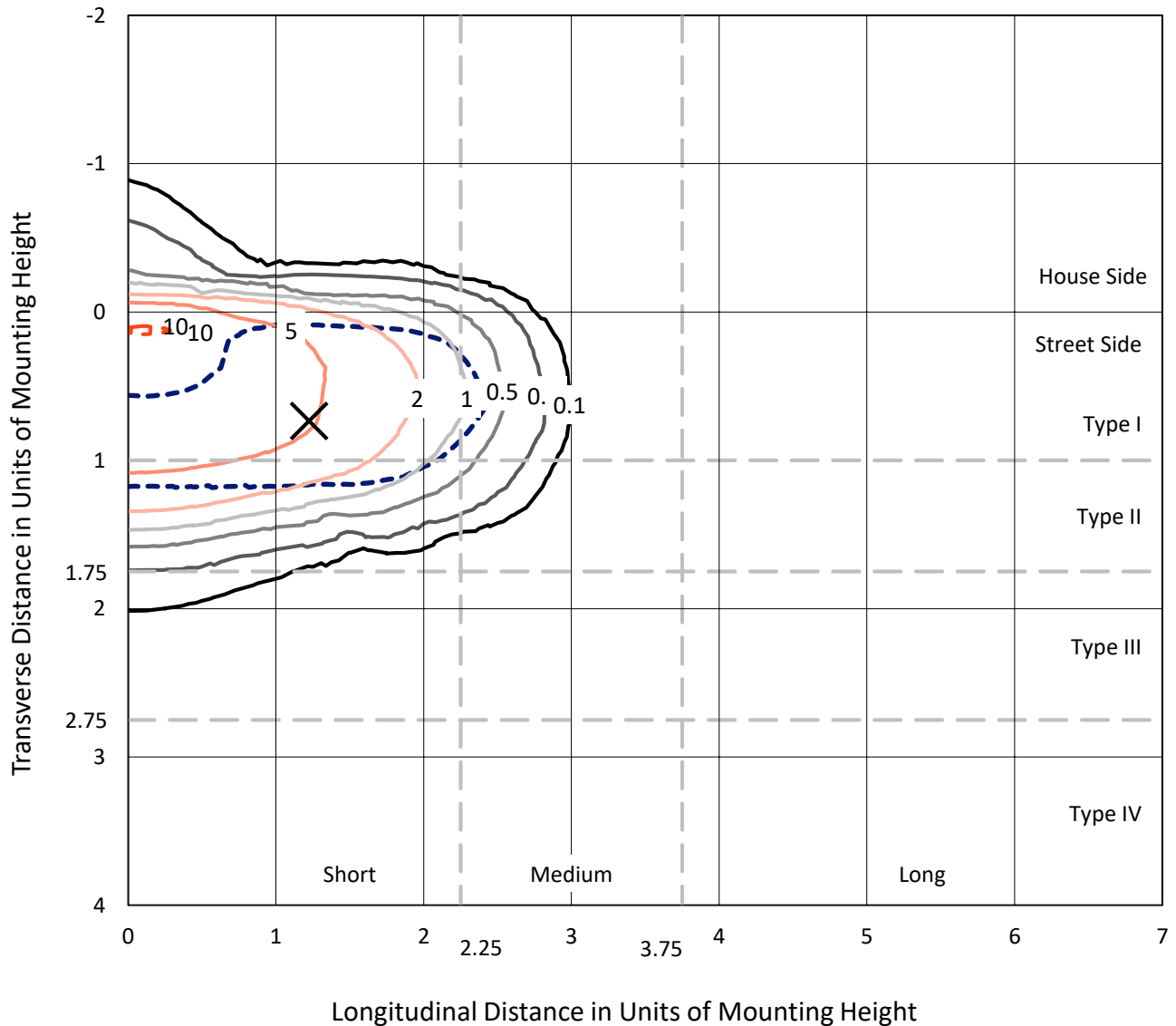


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

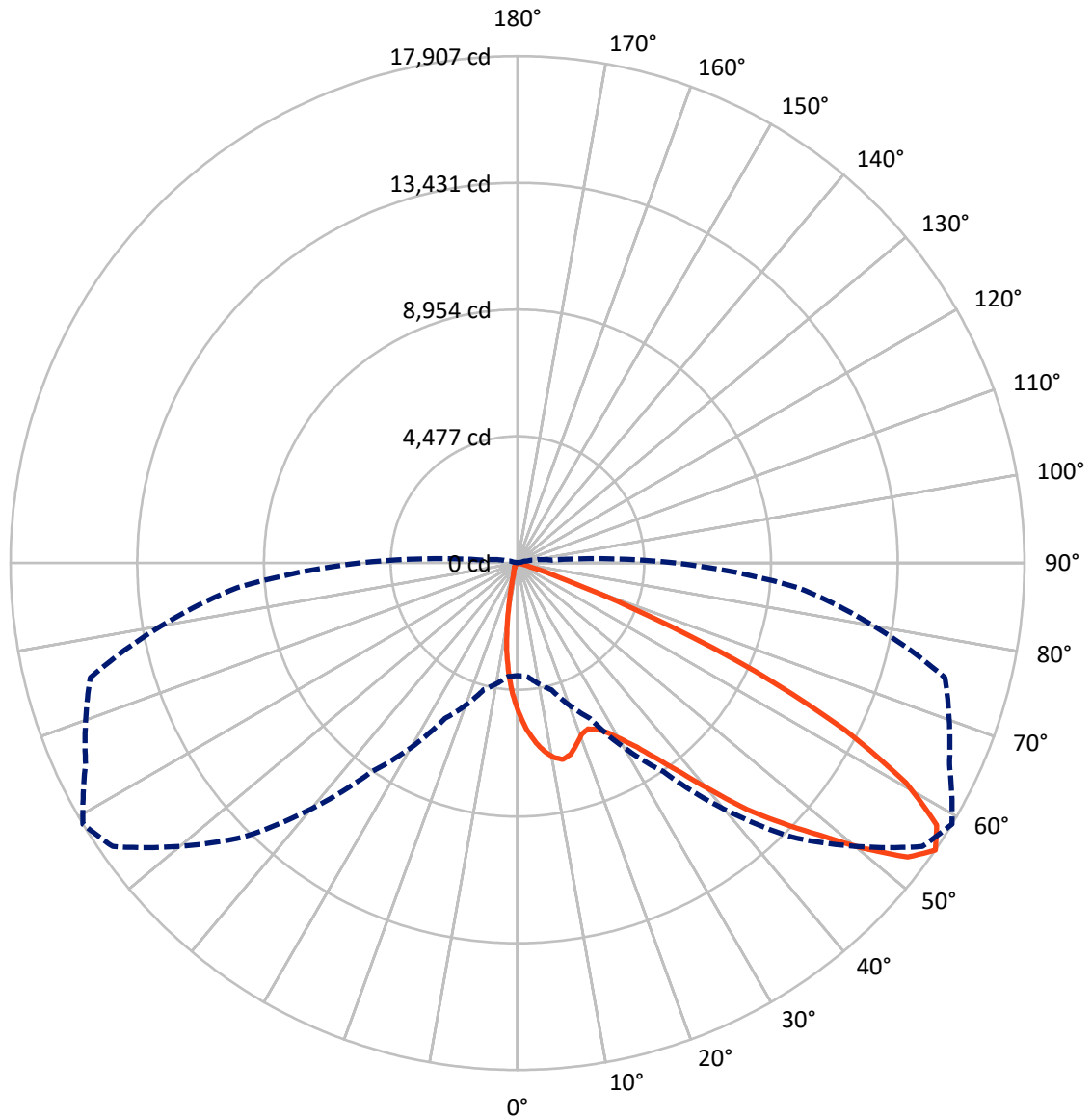


Based on 25 foot mounting height. Maximum calculated value = 10.5 fc
 Type II - Short - Full Cutoff

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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	1046.4	0.0	1046.4
	% Fixture	5.6	0.0	5.6
Street Side	Lumens	17688.1	0.0	17688.1
	% Fixture	94.4	0.0	94.4
Total	Lumens	18734.5	0.0	18734.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	441.7	2.4
10°-20°	1057.6	5.6
20°-30°	1799.7	9.6
30°-40°	3095.0	16.5
40°-50°	4778.4	25.5
50°-60°	4803.8	25.6
60°-70°	2463.4	13.1
70°-80°	267.0	1.4
80°-90°	27.9	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°	18734.5	100.0
0°-180°	18734.5	100.0

Coefficient of Utilization



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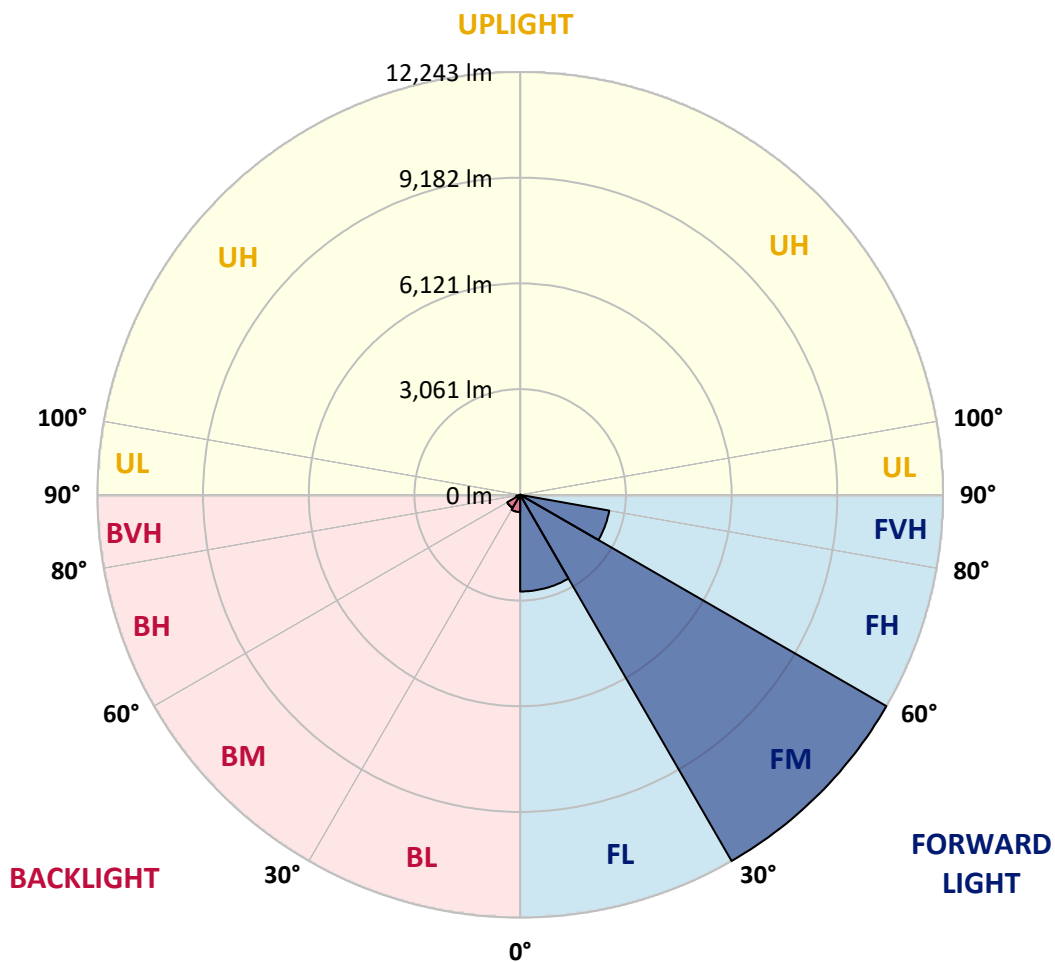
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2799.6	14.9			
FM (30°-60°)	12242.9	65.3			
FH (60°-80°)	2618.3	14.0			G2/5000
FVH (80°-90°)	27.3	0.1			G1/100
BL (0°-30°)	499.5	2.7	B1/500		
BM (30°-60°)	434.3	2.3	B1/1000		
BH (60°-80°)	112.1	0.6	B1/500		G1/500
BVH (80°-90°)	0.6	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°	5273.7	5273.7	5273.7	5273.7	5273.7	5273.7	5273.7	5273.7	5273.7	5273.7	5273.7
2.5°	6239.9	6173.6	6153.7	6140.5	6079.6	6003.5	5899.4	5850.8	5751.3	5591.1	5394.2
5°	6811.6	6799.5	6755.3	6730.9	6665.7	6557.3	6391.5	6311.9	6153.7	5884.0	5531.4
7.5°	6561.7	6638.0	6698.8	6800.4	6928.7	6924.3	6785.1	6702.2	6525.3	6169.2	5683.8
10°	5596.5	5658.5	5758.0	5989.0	6460.0	6875.6	7039.4	6979.7	6838.1	6431.2	5830.9
12.5°	5407.4	5400.8	5418.5	5485.9	5732.5	6325.1	6996.2	7116.7	7087.9	6671.2	5970.2
15°	5508.0	5500.3	5498.2	5521.3	5581.1	5830.9	6672.3	7018.4	7240.6	6893.5	6088.5
17.5°	5790.0	5756.9	5739.1	5720.3	5702.7	5764.7	6283.1	6743.0	7263.8	7087.9	6186.9
20°	6273.1	6217.9	6152.6	6046.5	5947.0	5916.1	6119.4	6460.0	7180.8	7236.1	6251.0
22.5°	6880.1	6809.4	6696.7	6503.1	6300.8	6183.7	6200.2	6370.4	7057.1	7397.5	6280.9
25°	7562.3	7471.7	7321.2	7052.7	6755.3	6547.3	6439.1	6498.7	7000.6	7586.6	6315.2
27.5°	8293.2	8192.5	7995.6	7629.8	7292.5	7011.7	6790.6	6782.8	7096.8	7834.3	6370.4
30°	9017.2	9001.7	8745.3	8358.3	7911.6	7570.0	7251.6	7210.8	7365.6	8177.0	6480.0
32.5°	9983.6	9867.4	9553.5	9155.4	8640.3	8230.1	7853.1	7758.0	7777.9	8576.1	6649.1
35°	11202.0	11074.8	10632.5	10083.0	9507.0	9022.8	8605.9	8476.6	8428.0	9229.5	6934.2
37.5°	11989.0	11987.0	11709.3	11149.9	10531.9	9998.0	9544.6	9393.1	9294.8	10018.9	7376.5
40°	12010.1	12062.1	12098.6	12093.1	11653.1	11161.0	10758.6	10571.8	10342.8	11073.6	7948.2
42.5°	11365.5	11499.4	11821.1	12367.2	12628.2	12432.5	12093.1	11909.5	11569.0	12202.4	8644.7
45°	10494.3	10587.2	11149.9	12156.0	13156.5	13692.9	13434.2	13105.7	12656.8	13380.0	9269.3
47.5°	10104.0	10120.7	10484.4	11588.9	13196.5	14725.5	14882.4	14348.4	13645.3	14328.5	9758.0
50°	8937.6	8967.5	9469.5	10606.0	12729.8	15213.1	16337.5	15831.0	14723.2	15059.4	9936.1
52.5°	6736.4	6778.4	7415.2	8990.7	11447.3	15005.2	17378.9	17256.3	15904.0	15416.4	9945.9
55°	3974.6	4029.8	4637.9	6052.1	9004.0	13682.9	17456.3	17907.4	16836.0	15627.6	9930.5
57.5°	1856.3	1895.0	2243.2	3117.7	5599.9	10813.8	16291.0	17460.6	17350.1	15739.4	10039.9
60°	986.2	997.3	1081.3	1350.0	2530.7	6856.9	14016.8	15767.0	16881.4	15894.2	10173.8
62.5°	753.9	757.4	752.9	784.9	1063.7	3043.6	10594.9	12962.1	14994.1	15778.0	10025.5
65°	653.3	658.9	627.9	620.2	682.2	1085.7	6294.2	9239.4	11782.3	14211.4	9016.2
67.5°	586.0	588.2	550.7	518.5	529.6	587.0	2483.2	5058.0	7798.8	10416.9	6535.2
70°	539.5	537.4	496.5	445.6	431.1	401.4	789.4	1854.1	3727.0	5282.6	3039.2
72.5°	477.5	478.7	458.9	392.5	358.2	280.8	366.0	540.6	1112.2	1439.4	711.9
75°	423.5	417.9	393.5	351.5	295.3	184.6	181.3	241.0	342.8	340.5	153.7
77.5°	306.2	300.8	308.5	288.5	226.6	119.5	90.6	116.2	139.2	134.8	43.1
80°	224.4	221.2	199.1	239.8	200.1	81.8	56.4	62.0	71.9	60.8	13.2
82.5°	153.7	152.6	140.4	132.7	113.8	49.8	35.4	38.6	46.4	34.2	6.6
85°	24.3	27.7	101.7	80.7	67.5	22.1	24.3	26.5	30.9	18.8	2.2
87.5°	0.0	0.0	47.5	42.0	13.2	8.9	14.4	15.5	15.5	9.9	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°	5273.7	5273.7	5273.7	5273.7	5273.7	5273.7	5273.7	5273.7	5273.7	5273.7	5273.7
2.5°	5293.6	5183.0	4978.4	4767.3	4571.7	4338.4	4178.0	4057.6	3918.2	3880.7	3962.5
5°	5330.2	5121.1	4681.1	4202.5	3752.4	3253.8	2872.3	2570.5	2297.4	2204.6	2288.6
7.5°	5387.6	5077.0	4359.4	3571.1	2788.2	2010.0	1477.1	1126.7	903.2	837.0	872.3
10°	5445.0	5012.8	3986.8	2823.7	1753.5	978.4	636.8	508.6	461.0	451.0	456.6
12.5°	5492.5	4926.6	3532.3	2007.7	937.6	524.0	416.9	395.9	389.1	389.1	391.4
15°	5521.3	4796.1	2994.0	1277.0	539.5	395.9	363.8	357.0	357.0	358.2	360.4
17.5°	5518.1	4630.3	2404.7	772.8	403.6	350.5	331.7	326.2	325.0	327.3	328.4
20°	5477.1	4413.6	1813.1	509.7	351.5	319.4	300.8	290.8	289.7	291.9	294.0
22.5°	5399.7	4145.9	1296.9	392.5	317.3	289.7	266.4	257.6	257.6	259.8	262.0
25°	5305.7	3818.8	886.6	332.8	286.4	257.6	235.4	227.8	230.0	235.4	236.7
27.5°	5188.6	3450.6	602.6	285.2	248.8	225.6	208.9	203.5	208.9	216.8	218.8
30°	5088.0	3067.0	430.1	246.6	211.2	194.7	184.6	184.6	192.3	206.7	210.1
32.5°	5010.6	2695.5	331.7	217.7	183.6	169.2	163.6	169.2	181.3	195.7	199.1
35°	5000.7	2389.2	280.8	194.7	163.6	149.3	147.1	157.1	169.2	180.2	182.4
37.5°	5077.0	2106.2	253.2	175.8	146.0	132.7	130.4	142.7	154.8	168.1	171.3
40°	5221.8	1883.9	233.3	158.1	131.5	117.1	112.7	121.6	138.2	155.9	160.3
42.5°	5409.8	1700.4	211.2	140.4	117.1	97.2	91.7	101.7	119.5	138.2	143.6
45°	5588.7	1542.3	186.8	120.6	98.5	75.2	72.9	86.2	95.1	113.8	118.2
47.5°	5687.2	1403.1	165.8	98.5	76.3	60.8	60.8	64.0	72.9	95.1	99.5
50°	5654.0	1291.4	143.6	72.9	53.1	46.4	46.4	45.4	58.6	76.3	79.6
52.5°	5587.6	1227.3	123.8	56.4	36.6	33.1	29.9	33.1	41.0	48.7	49.8
55°	5577.8	1216.1	103.9	45.4	25.4	22.1	16.6	16.6	16.6	15.5	13.2
57.5°	5655.1	1233.8	87.3	36.6	18.8	14.4	8.9	0.0	0.0	0.0	0.0
60°	5734.7	1252.6	75.2	25.4	13.2	7.7	1.1	0.0	0.0	0.0	0.0
62.5°	5602.1	1210.6	63.1	15.5	9.9	3.4	0.0	0.0	0.0	0.0	0.0
65°	4921.1	1030.4	49.8	11.0	6.6	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	3500.3	689.9	33.1	6.6	1.1	0.0	0.0	0.0	0.0	0.0	0.0
70°	1597.5	288.5	21.0	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	341.6	89.6	14.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	69.7	65.2	5.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	22.1	102.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	13.2	74.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	2.2	11.0	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)