

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: P200248

Luminaire Tested: **GAP-AF-02-LED-U-AFL-7050-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200248
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: GAP-AF-02-LED-U-AFL-7050-HSS
Description: GALLEON PEDESTRIAN LUMINAIRE
(2) 70 CRI, 5000K, 1050mA 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: 10169 lumens
Efficiency: N/A
Efficacy: 90.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B1 - U0 - G1

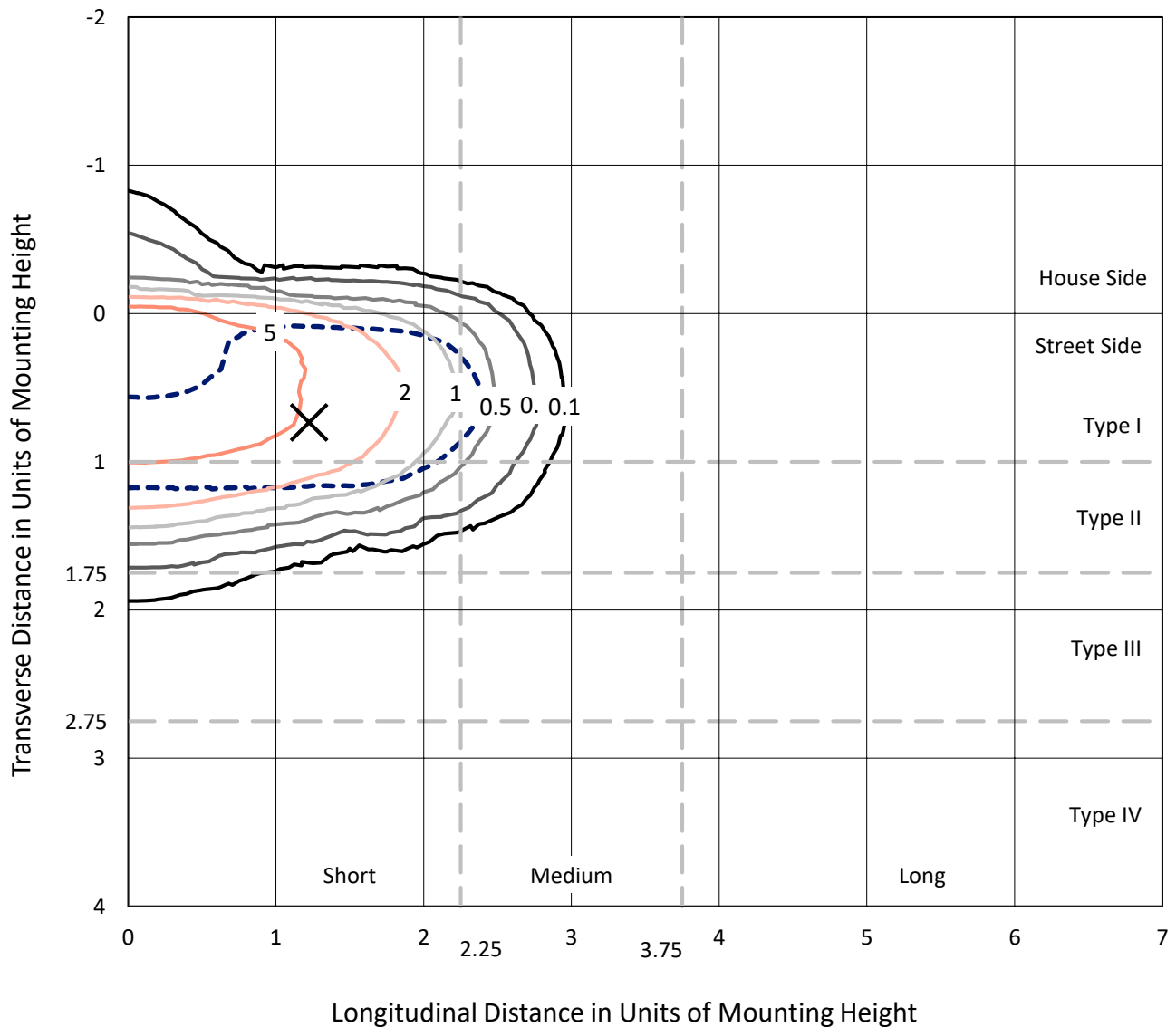
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

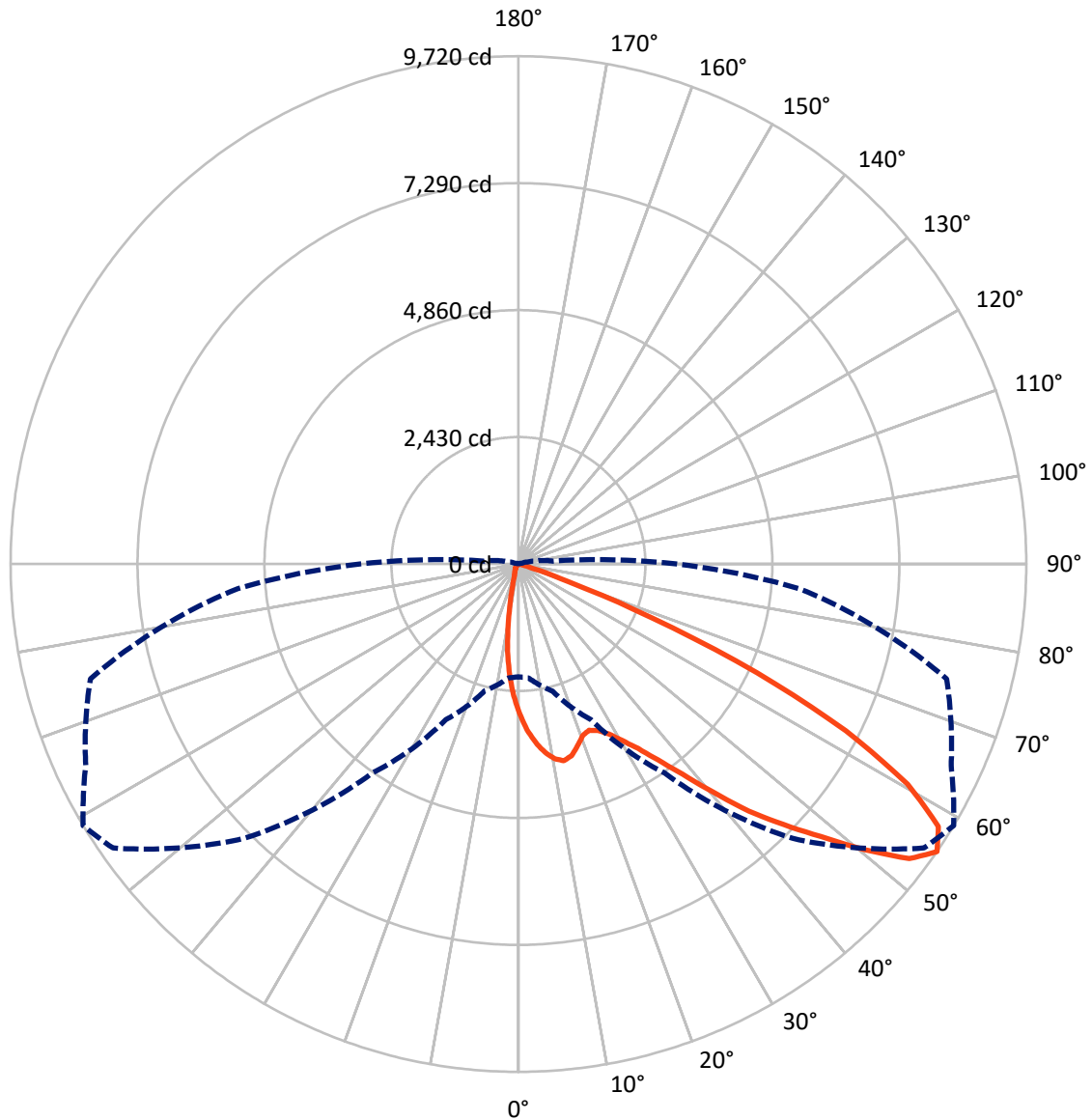
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 8.9 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	568.0	0.0	568.0
	% Fixture	5.6	0.0	5.6
Street Side	Lumens	9601.0	0.0	9601.0
	% Fixture	94.4	0.0	94.4
Total	Lumens	10169.0	0.0	10169.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	239.8	2.4
10°-20°	574.1	5.6
20°-30°	976.8	9.6
30°-40°	1680.0	16.5
40°-50°	2593.7	25.5
50°-60°	2607.5	25.6
60°-70°	1337.1	13.1
70°-80°	144.9	1.4
80°-90°	15.1	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°	10169.0	100.0
0°-180°	10169.0	100.0

Coefficient of Utilization



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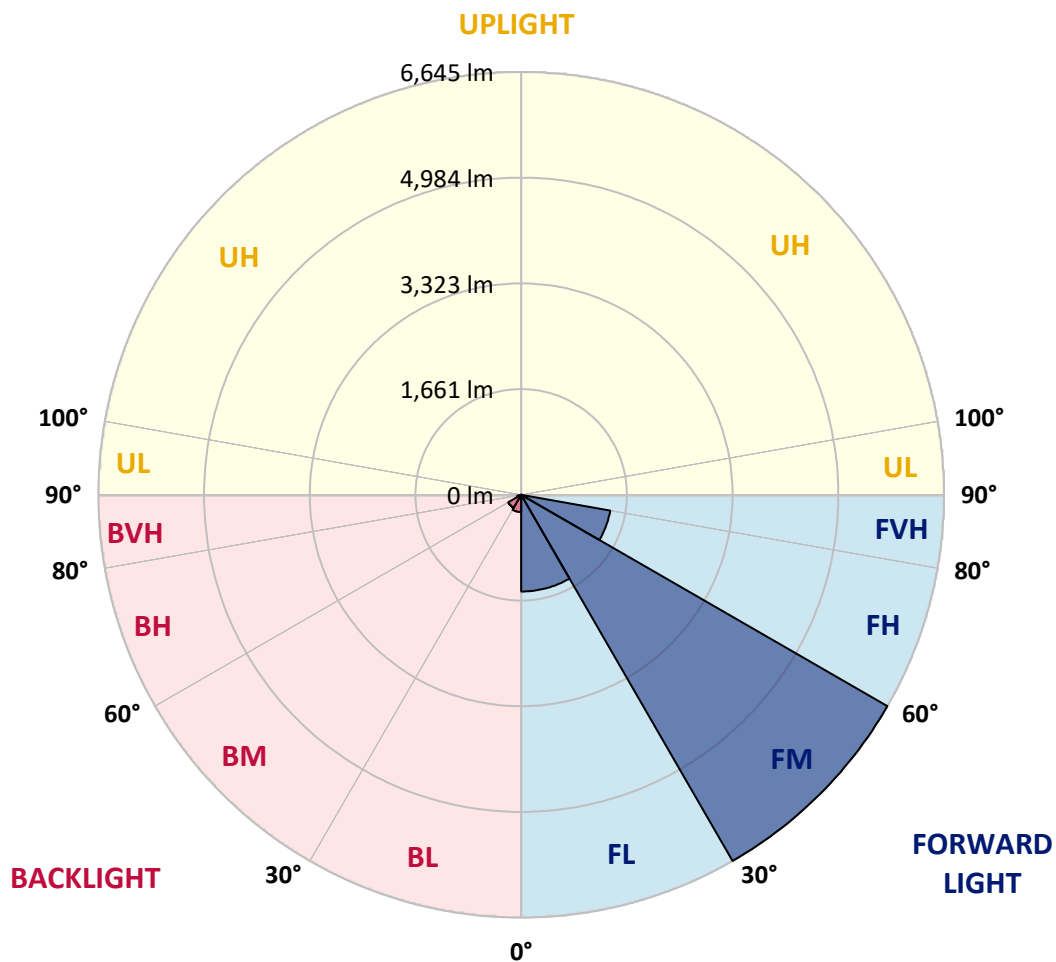
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1519.6	14.9			
FM	(30°-60°)	6645.4	65.3			
FH	(60°-80°)	1421.2	14.0			G1/1800
FVH	(80°-90°)	14.8	0.1			G1/100
BL	(0°-30°)	271.1	2.7	B1/500		
BM	(30°-60°)	235.7	2.3	B1/1000		
BH	(60°-80°)	60.9	0.6	B0/110		G0/110
BVH	(80°-90°)	0.3	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-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	2862.5	2862.5	2862.5	2862.5	2862.5	2862.5	2862.5	2862.5	2862.5	2862.5	2862.5
2.5°	3387.0	3351.0	3340.2	3333.0	3300.0	3258.6	3202.2	3175.8	3121.8	3034.8	2927.9
5°	3697.3	3690.7	3666.7	3653.5	3618.1	3559.3	3469.3	3426.0	3340.2	3193.8	3002.4
7.5°	3561.7	3603.1	3636.1	3691.3	3760.9	3758.5	3682.9	3637.9	3541.9	3348.6	3085.2
10°	3037.8	3071.4	3125.4	3250.8	3506.5	3732.1	3820.9	3788.5	3711.7	3490.9	3165.0
12.5°	2935.2	2931.5	2941.2	2977.8	3111.6	3433.2	3797.5	3862.9	3847.3	3621.1	3240.6
15°	2989.8	2985.6	2984.4	2997.0	3029.4	3165.0	3621.7	3809.5	3930.1	3741.7	3304.8
17.5°	3142.8	3124.8	3115.2	3105.0	3095.4	3129.0	3410.4	3660.1	3942.7	3847.3	3358.2
20°	3405.0	3375.0	3339.6	3282.0	3228.0	3211.2	3321.6	3506.5	3897.7	3927.7	3393.0
22.5°	3734.5	3696.1	3634.9	3529.9	3420.0	3356.4	3365.4	3457.8	3830.5	4015.4	3409.2
25°	4104.8	4055.6	3973.9	3828.1	3666.7	3553.9	3495.1	3527.5	3799.9	4118.0	3427.8
27.5°	4501.4	4446.8	4340.0	4141.4	3958.3	3805.9	3685.9	3681.7	3852.1	4252.4	3457.8
30°	4894.5	4886.1	4746.9	4536.9	4294.4	4109.0	3936.1	3913.9	3997.9	4438.4	3517.3
32.5°	5419.0	5356.0	5185.6	4969.5	4689.9	4467.2	4262.6	4211.0	4221.8	4655.1	3609.1
35°	6080.3	6011.3	5771.3	5473.0	5160.4	4897.5	4671.3	4601.1	4574.7	5009.7	3763.9
37.5°	6507.6	6506.4	6355.8	6052.1	5716.7	5426.8	5180.8	5098.6	5045.1	5438.2	4004.0
40°	6519.0	6547.2	6567.0	6564.0	6325.2	6058.1	5839.7	5738.3	5614.1	6010.7	4314.2
42.5°	6169.2	6241.8	6416.4	6712.9	6854.5	6748.3	6564.0	6464.4	6279.6	6623.4	4692.3
45°	5696.3	5746.7	6052.1	6598.2	7141.3	7432.4	7292.0	7113.7	6870.1	7262.6	5031.3
47.5°	5484.4	5493.4	5690.9	6290.4	7162.9	7992.9	8078.1	7788.3	7406.6	7777.5	5296.6
50°	4851.3	4867.5	5140.0	5756.9	6909.7	8257.5	8867.9	8593.0	7991.7	8174.1	5393.2
52.5°	3656.5	3679.3	4025.0	4880.1	6213.6	8144.7	9433.2	9366.6	8632.6	8368.0	5398.6
55°	2157.4	2187.4	2517.5	3285.0	4887.3	7427.0	9475.2	9720.0	9138.5	8482.6	5390.2
57.5°	1007.6	1028.6	1217.6	1692.3	3039.6	5869.7	8842.7	9477.6	9417.6	8543.2	5449.6
60°	535.3	541.3	586.9	732.7	1373.7	3721.9	7608.2	8558.2	9163.1	8627.2	5522.2
62.5°	409.3	411.1	408.7	426.1	577.3	1652.1	5750.9	7035.7	8138.7	8564.2	5441.8
65°	354.7	357.7	340.9	336.7	370.3	589.3	3416.4	5015.1	6395.4	7713.8	4893.9
67.5°	318.1	319.3	298.9	281.5	287.5	318.7	1347.9	2745.5	4233.2	5654.3	3547.3
70°	292.9	291.7	269.5	241.8	234.0	217.8	428.5	1006.4	2023.0	2867.3	1649.7
72.5°	259.2	259.8	249.0	213.0	194.4	152.4	198.6	293.5	603.7	781.3	386.5
75°	229.8	226.8	213.6	190.8	160.2	100.2	98.4	130.8	186.0	184.8	83.4
77.5°	166.2	163.2	167.4	156.6	123.0	64.8	49.2	63.0	75.6	73.2	23.4
80°	121.8	120.0	108.0	130.2	108.6	44.4	30.6	33.6	39.0	33.0	7.2
82.5°	83.4	82.8	76.2	72.0	61.8	27.0	19.2	21.0	25.2	18.6	3.6
85°	13.2	15.0	55.2	43.8	36.6	12.0	13.2	14.4	16.8	10.2	1.2
87.5°	0.0	0.0	25.8	22.8	7.2	4.8	7.8	8.4	8.4	5.4	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°	2862.5	2862.5	2862.5	2862.5	2862.5	2862.5	2862.5	2862.5	2862.5	2862.5	2862.5
2.5°	2873.3	2813.3	2702.3	2587.7	2481.5	2354.8	2267.8	2202.4	2126.8	2106.4	2150.8
5°	2893.1	2779.7	2540.9	2281.0	2036.8	1766.1	1559.1	1395.3	1247.0	1196.6	1242.2
7.5°	2924.3	2755.7	2366.2	1938.4	1513.5	1091.0	801.8	611.5	490.3	454.3	473.5
10°	2955.6	2720.9	2164.0	1532.7	951.8	531.1	345.7	276.1	250.2	244.8	247.8
12.5°	2981.4	2674.1	1917.4	1089.8	508.9	284.5	226.2	214.8	211.2	211.2	212.4
15°	2997.0	2603.3	1625.1	693.1	292.9	214.8	197.4	193.8	193.8	194.4	195.6
17.5°	2995.2	2513.3	1305.2	419.5	219.0	190.2	180.0	177.0	176.4	177.6	178.2
20°	2973.0	2395.6	984.2	276.7	190.8	173.4	163.2	157.8	157.2	158.4	159.6
22.5°	2930.9	2250.4	703.9	213.0	172.2	157.2	144.6	139.8	139.8	141.0	142.2
25°	2879.9	2072.8	481.3	180.6	155.4	139.8	127.8	123.6	124.8	127.8	128.4
27.5°	2816.3	1873.0	327.1	154.8	135.0	122.4	113.4	110.4	113.4	117.6	118.8
30°	2761.7	1664.7	233.4	133.8	114.6	105.6	100.2	100.2	104.4	112.2	114.0
32.5°	2719.7	1463.1	180.0	118.2	99.6	91.8	88.8	91.8	98.4	106.2	108.0
35°	2714.3	1296.8	152.4	105.6	88.8	81.0	79.8	85.2	91.8	97.8	99.0
37.5°	2755.7	1143.2	137.4	95.4	79.2	72.0	70.8	77.4	84.0	91.2	93.0
40°	2834.3	1022.6	126.6	85.8	71.4	63.6	61.2	66.0	75.0	84.6	87.0
42.5°	2936.4	923.0	114.6	76.2	63.6	52.8	49.8	55.2	64.8	75.0	78.0
45°	3033.6	837.2	101.4	65.4	53.4	40.8	39.6	46.8	51.6	61.8	64.2
47.5°	3087.0	761.5	90.0	53.4	41.4	33.0	33.0	34.8	39.6	51.6	54.0
50°	3069.0	700.9	78.0	39.6	28.8	25.2	25.2	24.6	31.8	41.4	43.2
52.5°	3033.0	666.1	67.2	30.6	19.8	18.0	16.2	18.0	22.2	26.4	27.0
55°	3027.6	660.1	56.4	24.6	13.8	12.0	9.0	9.0	9.0	8.4	7.2
57.5°	3069.6	669.7	47.4	19.8	10.2	7.8	4.8	0.0	0.0	0.0	0.0
60°	3112.8	679.9	40.8	13.8	7.2	4.2	0.6	0.0	0.0	0.0	0.0
62.5°	3040.8	657.1	34.2	8.4	5.4	1.8	0.0	0.0	0.0	0.0	0.0
65°	2671.1	559.3	27.0	6.0	3.6	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	1900.0	374.5	18.0	3.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0
70°	867.2	156.6	11.4	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	185.4	48.6	7.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	37.8	35.4	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	12.0	55.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	7.2	40.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	1.2	6.0	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)