

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: P300607

Luminaire Tested: **GAA-AF-02-LED-U-AFL-7030-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P300607
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: GAA-AF-02-LED-U-AFL-7030-HSS
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K CCT 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND Automotive Frontline WITH HOUSESIDE SHIELD OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8760.6 lumens
Efficiency: N/A
Efficacy: 77.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B1 - U0 - G1

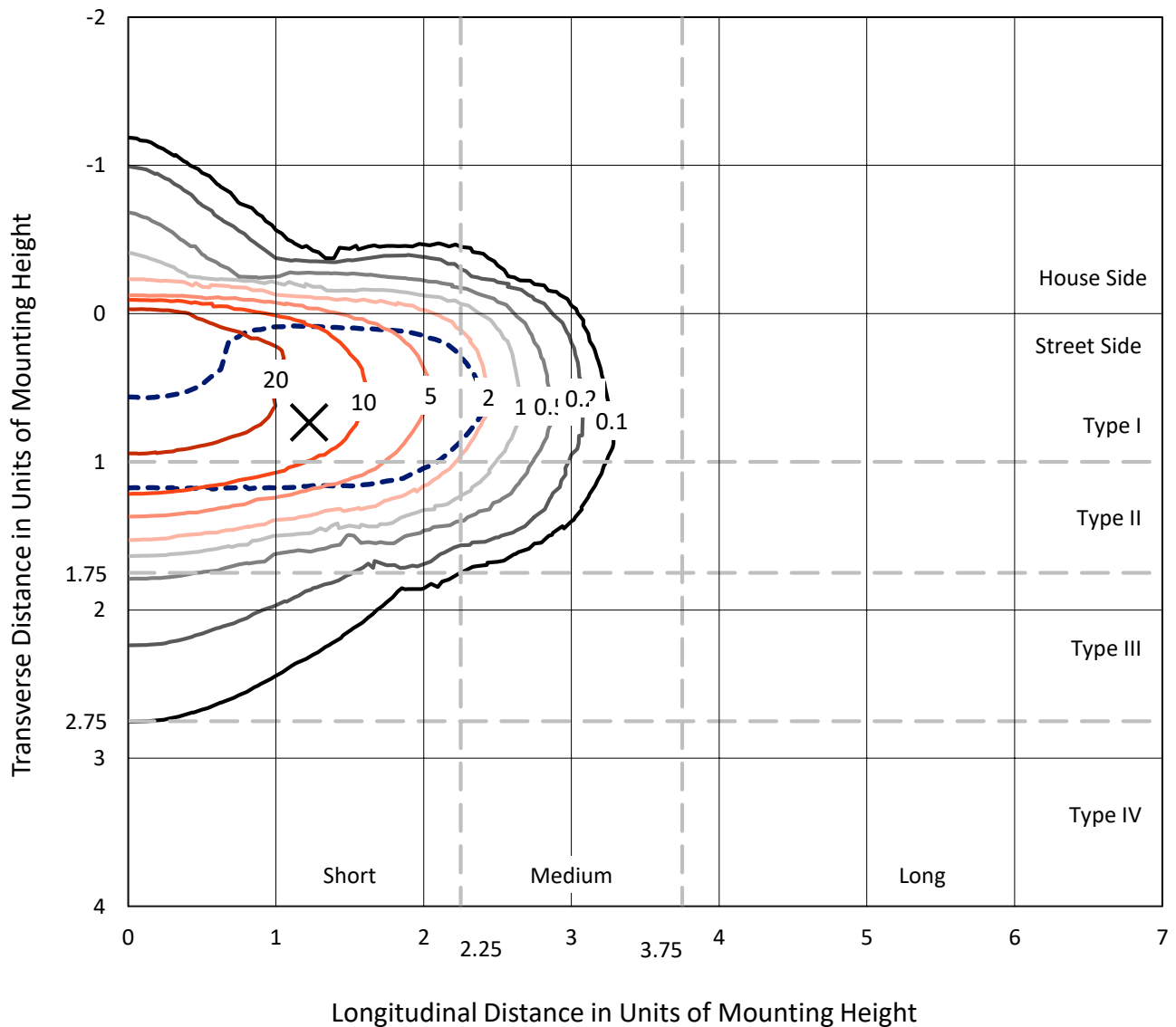
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

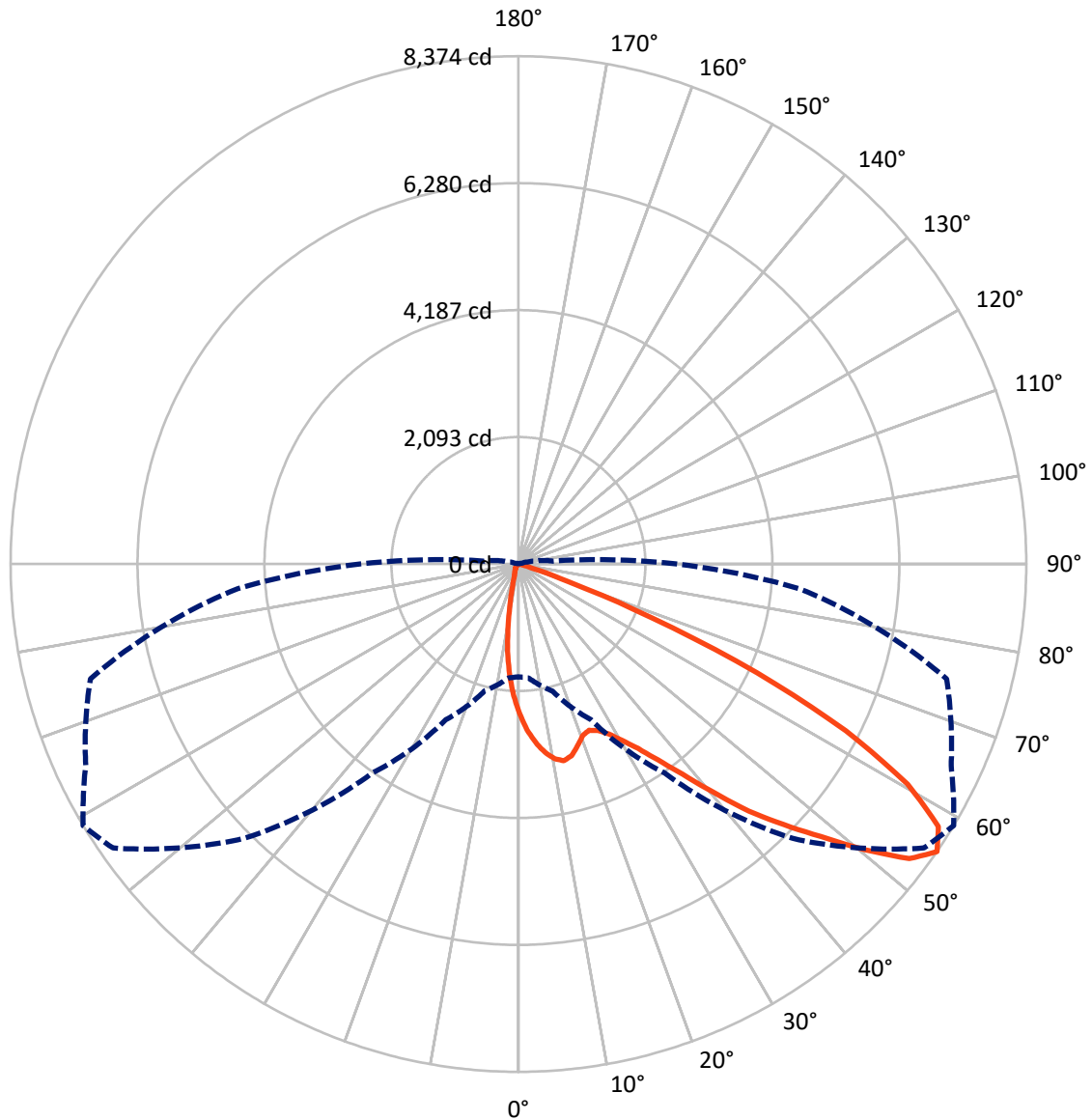
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 30.7 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	489.3	0.0	489.3
	% Fixture	5.6	0.0	5.6
Street Side	Lumens	8271.3	0.0	8271.3
	% Fixture	94.4	0.0	94.4
Total	Lumens	8760.6	0.0	8760.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	206.6	2.4
10°-20°	494.6	5.6
20°-30°	841.6	9.6
30°-40°	1447.3	16.5
40°-50°	2234.5	25.5
50°-60°	2246.3	25.6
60°-70°	1151.9	13.1
70°-80°	124.8	1.4
80°-90°	13.0	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°	8760.6	100.0
0°-180°	8760.6	100.0

Coefficient of Utilization



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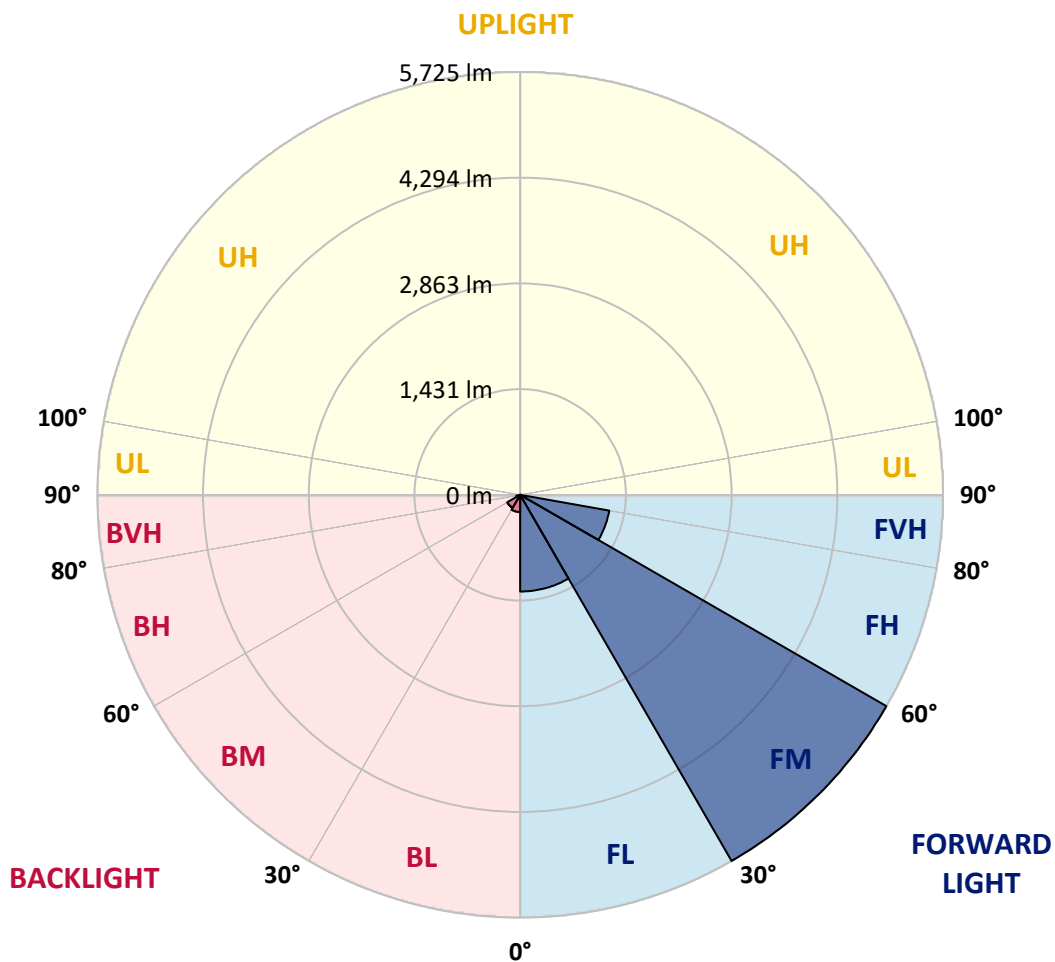
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1309.1	14.9			
FM	(30°-60°)	5725.0	65.3			
FH	(60°-80°)	1224.4	14.0			G1/1800
FVH	(80°-90°)	12.8	0.1			G1/100
BL	(0°-30°)	233.6	2.7	B1/500		
BM	(30°-60°)	203.1	2.3	B0/220		
BH	(60°-80°)	52.4	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°	2466.1	2466.1	2466.1	2466.1	2466.1	2466.1	2466.1	2466.1	2466.1	2466.1	2466.1
2.5°	2917.9	2886.9	2877.6	2871.4	2843.0	2807.3	2758.7	2735.9	2689.4	2614.5	2522.4
5°	3185.2	3179.5	3158.9	3147.5	3117.0	3066.3	2988.8	2951.5	2877.6	2751.5	2586.5
7.5°	3068.4	3104.1	3132.5	3180.1	3240.0	3238.0	3172.8	3134.0	3051.3	2884.8	2657.9
10°	2617.0	2646.0	2692.5	2800.6	3020.8	3215.2	3291.7	3263.8	3197.6	3007.4	2726.6
12.5°	2528.6	2525.5	2533.8	2565.3	2680.6	2957.7	3271.6	3327.9	3314.5	3119.6	2791.8
15°	2575.7	2572.1	2571.0	2581.9	2609.8	2726.6	3120.1	3281.9	3385.8	3223.5	2847.1
17.5°	2707.5	2692.0	2683.7	2674.9	2666.7	2695.6	2938.1	3153.2	3396.7	3314.5	2893.1
20°	2933.4	2907.6	2877.1	2827.5	2780.9	2766.5	2861.6	3020.8	3357.9	3383.7	2923.1
22.5°	3217.3	3184.2	3131.5	3041.0	2946.4	2891.6	2899.3	2978.9	3300.0	3459.2	2937.1
25°	3536.3	3493.9	3423.6	3297.9	3158.9	3061.7	3011.0	3038.9	3273.6	3547.6	2953.1
27.5°	3878.0	3830.9	3738.9	3567.8	3410.1	3278.8	3175.4	3171.8	3318.6	3663.4	2978.9
30°	4216.6	4209.4	4089.4	3908.5	3699.6	3539.9	3391.0	3371.9	3444.2	3823.7	3030.1
32.5°	4668.5	4614.2	4467.4	4281.3	4040.3	3848.5	3672.2	3627.8	3637.1	4010.3	3109.2
35°	5238.2	5178.8	4972.0	4715.0	4445.7	4219.2	4024.3	3963.8	3941.1	4315.9	3242.6
37.5°	5606.3	5605.3	5475.5	5213.9	4924.9	4675.2	4463.2	4392.4	4346.4	4685.0	3449.4
40°	5616.1	5640.4	5657.5	5654.9	5449.2	5219.1	5030.9	4943.5	4836.5	5178.2	3716.7
42.5°	5314.7	5377.3	5527.7	5783.1	5905.1	5813.6	5654.9	5569.1	5409.9	5706.1	4042.4
45°	4907.3	4950.8	5213.9	5684.4	6152.3	6403.0	6282.0	6128.5	5918.6	6256.7	4334.5
47.5°	4724.8	4732.6	4902.7	5419.2	6170.9	6885.9	6959.3	6709.6	6380.8	6700.3	4563.0
50°	4179.4	4193.4	4428.1	4959.6	5952.7	7113.9	7639.7	7402.9	6884.9	7042.0	4646.3
52.5°	3150.1	3169.7	3467.5	4204.2	5353.0	7016.7	8126.7	8069.3	7437.0	7209.0	4650.9
55°	1858.6	1884.5	2168.8	2830.0	4210.4	6398.4	8162.9	8373.8	7872.8	7307.8	4643.7
57.5°	868.0	886.1	1049.0	1457.9	2618.6	5056.8	7618.0	8164.9	8113.2	7360.0	4694.9
60°	461.2	466.3	505.6	631.3	1183.4	3206.4	6554.5	7372.9	7894.0	7432.4	4757.4
62.5°	352.6	354.1	352.1	367.1	497.4	1423.3	4954.4	6061.3	7011.5	7378.1	4688.1
65°	305.5	308.1	293.7	290.0	319.0	507.7	2943.3	4320.5	5509.6	6645.5	4216.1
67.5°	274.0	275.0	257.5	242.5	247.6	274.5	1161.2	2365.3	3646.9	4871.1	3056.0
70°	252.3	251.3	232.1	208.3	201.6	187.7	369.1	867.0	1742.8	2470.2	1421.2
72.5°	223.3	223.9	214.6	183.5	167.5	131.3	171.1	252.8	520.1	673.1	332.9
75°	198.0	195.4	184.1	164.4	138.0	86.3	84.8	112.7	160.3	159.2	71.9
77.5°	143.2	140.6	144.2	134.9	106.0	55.8	42.4	54.3	65.1	63.1	20.2
80°	105.0	103.4	93.1	112.2	93.6	38.3	26.4	29.0	33.6	28.4	6.2
82.5°	71.9	71.3	65.7	62.0	53.3	23.3	16.5	18.1	21.7	16.0	3.1
85°	11.4	12.9	47.6	37.7	31.5	10.3	11.4	12.4	14.5	8.8	1.0
87.5°	0.0	0.0	22.2	19.6	6.2	4.1	6.7	7.2	7.2	4.7	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°	2466.1	2466.1	2466.1	2466.1	2466.1	2466.1	2466.1	2466.1	2466.1	2466.1	2466.1
2.5°	2475.4	2423.7	2328.0	2229.3	2137.8	2028.7	1953.7	1897.4	1832.2	1814.7	1852.9
5°	2492.4	2394.7	2189.0	1965.1	1754.7	1521.5	1343.2	1202.0	1074.3	1030.9	1070.2
7.5°	2519.3	2374.1	2038.5	1669.9	1303.9	939.9	690.7	526.8	422.4	391.4	407.9
10°	2546.2	2344.1	1864.3	1320.4	820.0	457.5	297.8	237.8	215.6	210.9	213.5
12.5°	2568.4	2303.7	1651.8	938.9	438.4	245.1	194.9	185.1	182.0	182.0	183.0
15°	2581.9	2242.7	1400.0	597.1	252.3	185.1	170.1	167.0	167.0	167.5	168.5
17.5°	2580.3	2165.2	1124.5	361.4	188.7	163.9	155.1	152.5	152.0	153.0	153.5
20°	2561.2	2063.9	847.9	238.3	164.4	149.4	140.6	136.0	135.5	136.5	137.5
22.5°	2525.0	1938.7	606.4	183.5	148.4	135.5	124.6	120.5	120.5	121.5	122.5
25°	2481.1	1785.7	414.6	155.6	133.9	120.5	110.1	106.5	107.5	110.1	110.6
27.5°	2426.3	1613.5	281.8	133.4	116.3	105.5	97.7	95.1	97.7	101.3	102.4
30°	2379.2	1434.2	201.1	115.3	98.7	91.0	86.3	86.3	90.0	96.7	98.2
32.5°	2343.0	1260.4	155.1	101.8	85.8	79.1	76.5	79.1	84.8	91.5	93.1
35°	2338.4	1117.2	131.3	91.0	76.5	69.8	68.8	73.4	79.1	84.3	85.3
37.5°	2374.1	984.9	118.4	82.2	68.2	62.0	61.0	66.7	72.4	78.6	80.1
40°	2441.8	881.0	109.1	73.9	61.5	54.8	52.7	56.9	64.6	72.9	75.0
42.5°	2529.7	795.1	98.7	65.7	54.8	45.5	42.9	47.6	55.8	64.6	67.2
45°	2613.4	721.2	87.4	56.4	46.0	35.2	34.1	40.3	44.5	53.3	55.3
47.5°	2659.4	656.1	77.5	46.0	35.7	28.4	28.4	30.0	34.1	44.5	46.5
50°	2643.9	603.9	67.2	34.1	24.8	21.7	21.7	21.2	27.4	35.7	37.2
52.5°	2612.9	573.9	57.9	26.4	17.1	15.5	14.0	15.5	19.1	22.7	23.3
55°	2608.3	568.7	48.6	21.2	11.9	10.3	7.8	7.8	7.8	7.2	6.2
57.5°	2644.4	577.0	40.8	17.1	8.8	6.7	4.1	0.0	0.0	0.0	0.0
60°	2681.7	585.8	35.2	11.9	6.2	3.6	0.5	0.0	0.0	0.0	0.0
62.5°	2619.6	566.1	29.5	7.2	4.7	1.6	0.0	0.0	0.0	0.0	0.0
65°	2301.2	481.8	23.3	5.2	3.1	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	1636.8	322.6	15.5	3.1	0.5	0.0	0.0	0.0	0.0	0.0	0.0
70°	747.1	134.9	9.8	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	159.8	41.9	6.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	32.6	30.5	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	10.3	48.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	6.2	34.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	1.0	5.2	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)