

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: McGRAW-EDISON

Report Number: P300733

Luminaire Tested: **GLNA-AF-03-LED-E1-AFL-7030-600-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P300733
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: MCGRAW-EDISON
Catalog Number: GLNA-AF-03-LED-E1-AFL-7030-600-HSS
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K CCT 600mA LIGHTSQUARE WITH 16 LEDS EACH AND Automotive Frontline WITH HOUSESIDE SHIELD OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8611.6 lumens
Efficiency: N/A
Efficacy: 89.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B1 - U0 - G1

Input Watts (W): 96
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: 25 FT

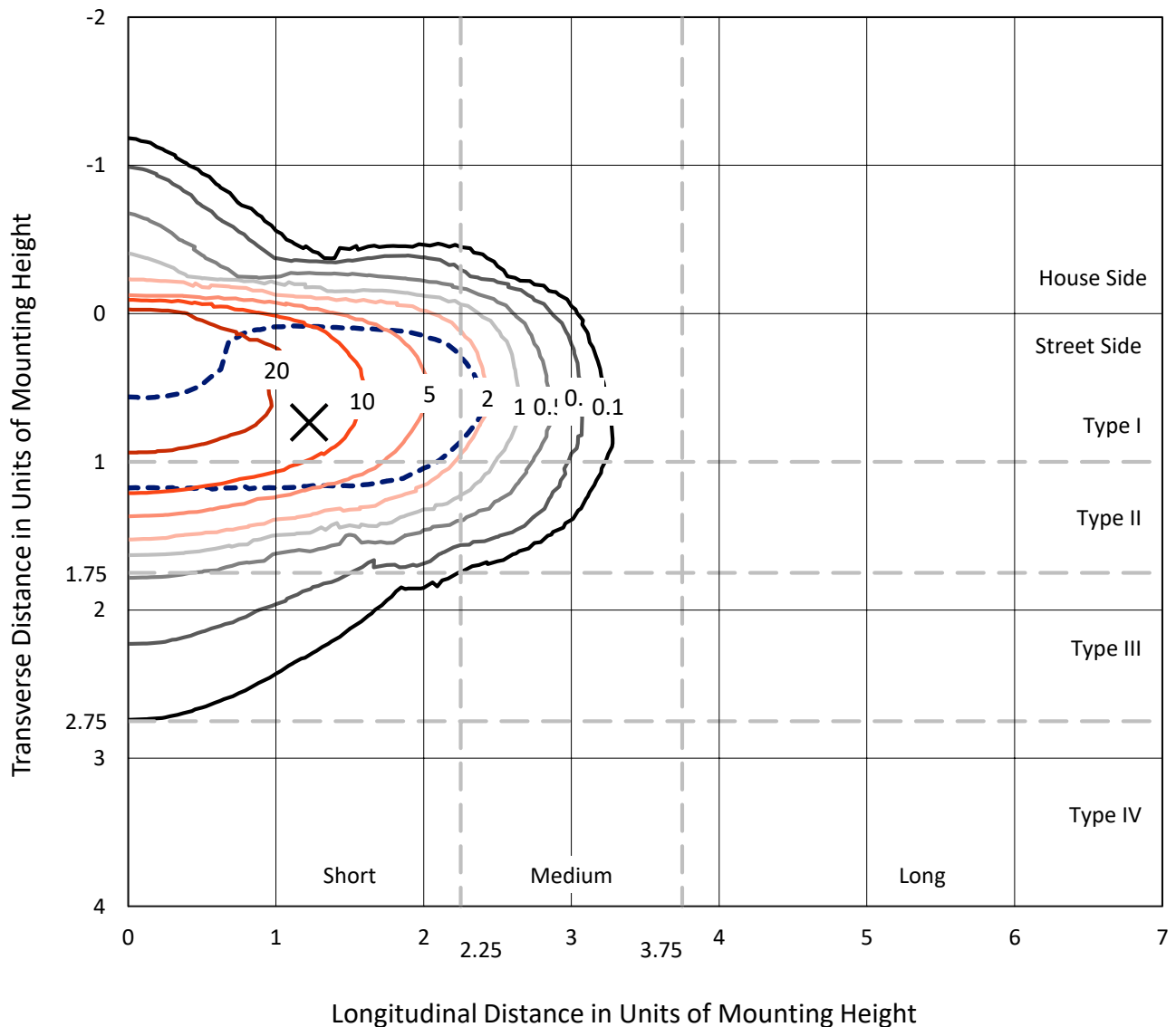


REPORT NUMBER: P300733

CATALOG NUMBER: GLNA-AF-03-LED-E1-AFL-7030-600-HSS

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

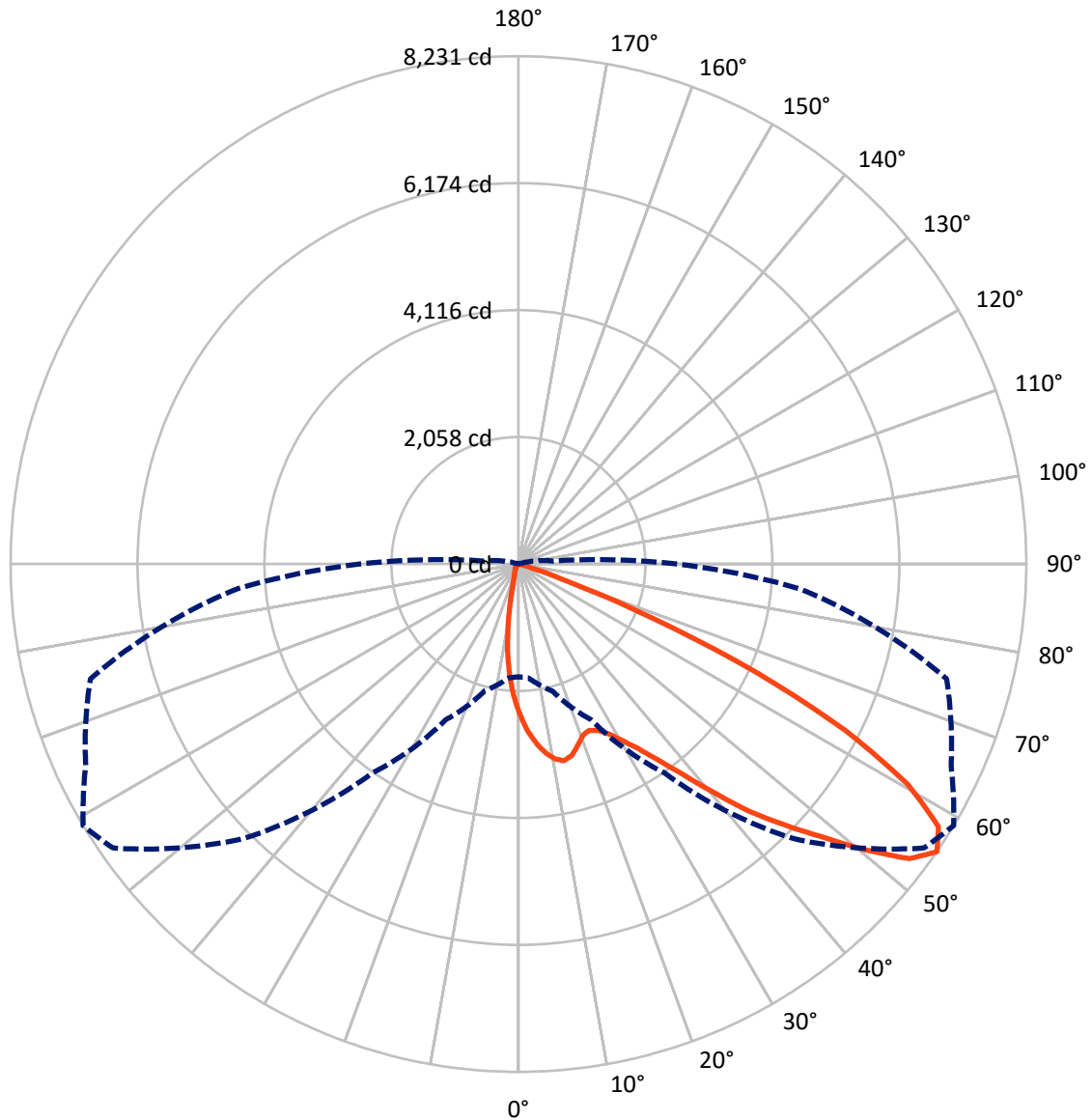


Based on 10 foot mounting height. Maximum calculated value = 30.2 fc
 Type II - Short - Full Cutoff

REPORT NUMBER: P300733

CATALOG NUMBER: GLNA-AF-03-LED-E1-AFL-7030-600-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

REPORT NUMBER: P300733

CATALOG NUMBER: GLNA-AF-03-LED-E1-AFL-7030-600-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	481.0	0.0	481.0
	% Fixture	5.6	0.0	5.6
Street Side	Lumens	8130.6	0.0	8130.6
	% Fixture	94.4	0.0	94.4
Total	Lumens	8611.6	0.0	8611.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	203.0	2.4
10°-20°	486.2	5.6
20°-30°	827.2	9.6
30°-40°	1422.7	16.5
40°-50°	2196.5	25.5
50°-60°	2208.1	25.6
60°-70°	1132.4	13.1
70°-80°	122.7	1.4
80°-90°	12.8	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°	8611.6	100.0
0°-180°	8611.6	100.0



REPORT NUMBER: P300733

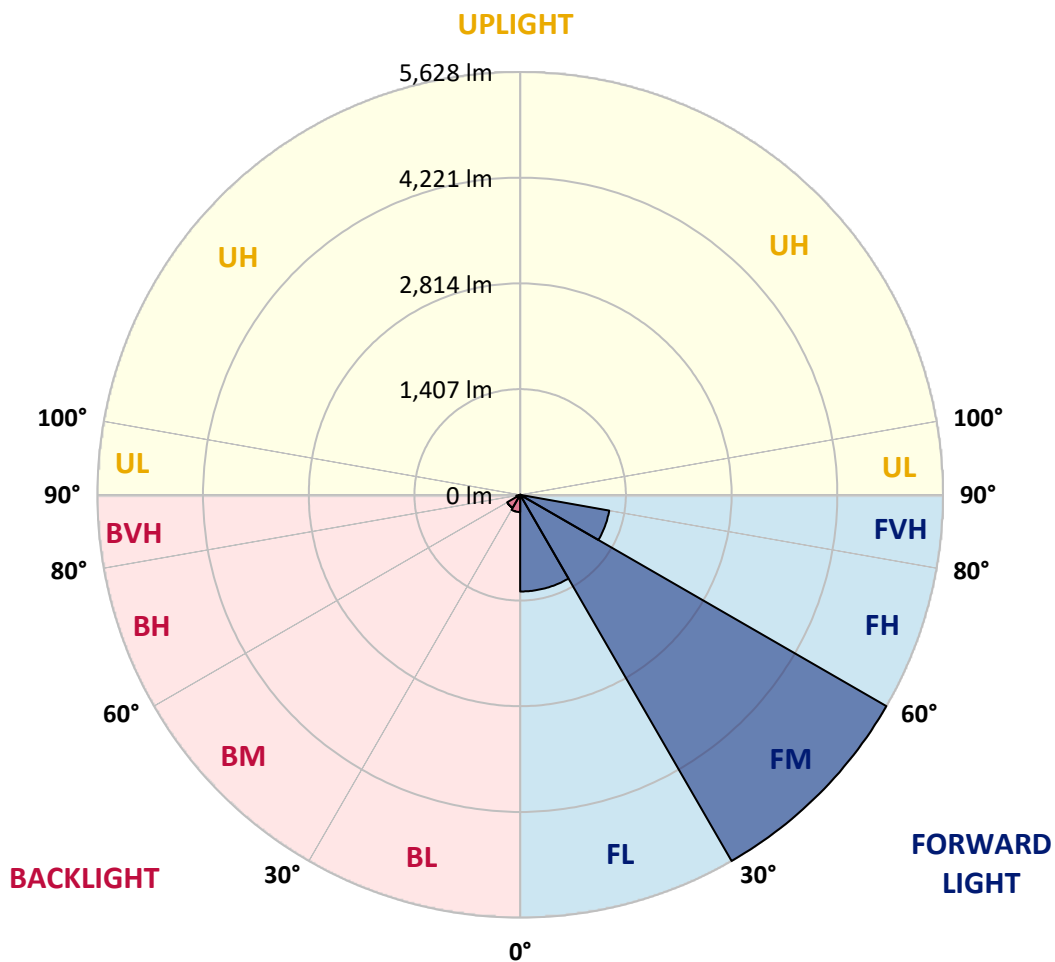
CATALOG NUMBER: GLNA-AF-03-LED-E1-AFL-7030-600-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1286.9	14.9			
FM	(30°-60°)	5627.6	65.3			
FH	(60°-80°)	1203.5	14.0			G1/1800
FVH	(80°-90°)	12.6	0.1			G1/100
BL	(0°-30°)	229.6	2.7	B1/500		
BM	(30°-60°)	199.6	2.3	B0/220		
BH	(60°-80°)	51.5	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





REPORT NUMBER: P300733

CATALOG NUMBER: GLNA-AF-03-LED-E1-AFL-7030-600-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	2424.1	2424.1	2424.1	2424.1	2424.1	2424.1	2424.1	2424.1	2424.1	2424.1	2424.1
2.5°	2868.3	2837.8	2828.7	2822.6	2794.6	2759.5	2711.8	2689.4	2643.7	2570.0	2479.5
5°	3131.0	3125.5	3105.1	3093.9	3064.0	3014.2	2937.9	2901.3	2828.7	2704.7	2542.5
7.5°	3016.2	3051.3	3079.2	3126.0	3184.9	3182.9	3118.8	3080.7	2999.4	2835.8	2612.7
10°	2572.5	2601.0	2646.7	2752.9	2969.4	3160.5	3235.7	3208.3	3143.2	2956.2	2680.3
12.5°	2485.6	2482.6	2490.7	2521.7	2635.0	2907.4	3215.9	3271.3	3258.1	3066.5	2744.3
15°	2531.9	2528.3	2527.3	2538.0	2565.4	2680.3	3067.0	3226.1	3328.2	3168.7	2798.7
17.5°	2661.5	2646.2	2638.1	2629.4	2621.3	2649.8	2888.1	3099.5	3338.9	3258.1	2843.9
20°	2883.6	2858.1	2828.2	2779.4	2733.6	2719.4	2812.9	2969.4	3300.8	3326.2	2873.4
22.5°	3162.6	3130.0	3078.2	2989.3	2896.3	2842.4	2850.0	2928.3	3243.9	3400.4	2887.1
25°	3476.1	3434.4	3365.3	3241.8	3105.1	3009.6	2959.8	2987.2	3217.9	3487.3	2902.9
27.5°	3812.0	3765.8	3675.3	3507.1	3352.1	3223.0	3121.4	3117.8	3262.2	3601.1	2928.3
30°	4144.9	4137.8	4019.9	3842.0	3636.7	3479.7	3333.3	3314.5	3385.7	3758.7	2978.6
32.5°	4589.1	4535.7	4391.4	4208.4	3971.6	3783.1	3609.8	3566.1	3575.2	3942.1	3056.3
35°	5149.1	5090.7	4887.4	4634.8	4370.0	4147.5	3955.9	3896.4	3874.0	4242.5	3187.5
37.5°	5511.0	5509.9	5382.4	5125.2	4841.2	4595.7	4387.3	4317.7	4272.5	4605.3	3390.7
40°	5520.6	5544.5	5561.3	5558.7	5356.5	5130.3	4945.3	4859.4	4754.2	5090.2	3653.5
42.5°	5224.3	5285.8	5433.7	5684.8	5804.7	5714.8	5558.7	5474.4	5317.8	5609.0	3973.6
45°	4823.9	4866.6	5125.2	5587.7	6047.6	6294.1	6175.2	6024.3	5817.9	6150.3	4260.8
47.5°	4644.5	4652.1	4819.3	5327.0	6065.9	6768.8	6840.9	6595.5	6272.3	6586.3	4485.4
50°	4108.3	4122.0	4352.8	4875.2	5851.5	6992.9	7509.7	7277.0	6767.8	6922.2	4567.2
52.5°	3096.5	3115.8	3408.5	4132.7	5261.9	6897.3	7988.5	7932.0	7310.5	7086.4	4571.8
55°	1827.0	1852.4	2131.9	2781.9	4138.8	6289.5	8024.0	8231.4	7738.9	7183.5	4564.7
57.5°	853.3	871.1	1031.1	1433.1	2574.1	4970.7	7488.4	8026.1	7975.2	7234.8	4615.0
60°	453.3	458.4	497.0	620.5	1163.3	3151.9	6443.0	7247.5	7759.8	7305.9	4676.5
62.5°	346.6	348.1	346.1	360.8	488.9	1399.1	4870.1	5958.2	6892.3	7252.6	4608.4
65°	300.3	302.9	288.7	285.1	313.6	499.1	2893.2	4247.1	5415.9	6532.5	4144.4
67.5°	269.3	270.4	253.1	238.3	243.4	269.9	1141.4	2325.0	3584.9	4788.3	3004.0
70°	248.0	247.0	228.2	204.8	198.2	184.5	362.9	852.3	1713.2	2428.2	1397.1
72.5°	219.5	220.1	210.9	180.4	164.7	129.1	168.2	248.5	511.3	661.7	327.3
75°	194.6	192.1	180.9	161.6	135.7	84.9	83.3	110.8	157.5	156.5	70.6
77.5°	140.8	138.2	141.8	132.6	104.2	54.9	41.7	53.4	64.0	62.0	19.8
80°	103.2	101.6	91.5	110.3	92.0	37.6	25.9	28.5	33.0	28.0	6.1
82.5°	70.6	70.1	64.5	61.0	52.3	22.9	16.3	17.8	21.3	15.8	3.0
85°	11.2	12.7	46.8	37.1	31.0	10.2	11.2	12.2	14.2	8.6	1.0
87.5°	0.0	0.0	21.9	19.3	6.1	4.1	6.6	7.1	7.1	4.6	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



REPORT NUMBER: P300733

CATALOG NUMBER: GLNA-AF-03-LED-E1-AFL-7030-600-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2424.1	2424.1	2424.1	2424.1	2424.1	2424.1	2424.1	2424.1	2424.1	2424.1	2424.1
2.5°	2433.3	2382.5	2288.4	2191.4	2101.4	1994.2	1920.5	1865.1	1801.1	1783.8	1821.4
5°	2450.1	2354.0	2151.7	1931.7	1724.8	1495.6	1320.3	1181.6	1056.0	1013.4	1052.0
7.5°	2476.5	2333.7	2003.8	1641.5	1281.7	923.9	679.0	517.9	415.2	384.7	401.0
10°	2502.9	2304.2	1832.6	1298.0	806.0	449.8	292.7	233.8	211.9	207.3	209.9
12.5°	2524.8	2264.6	1623.7	922.9	431.0	240.9	191.6	181.9	178.9	178.9	179.9
15°	2538.0	2204.6	1376.2	587.0	248.0	181.9	167.2	164.1	164.1	164.7	165.7
17.5°	2536.4	2128.4	1105.3	355.2	185.5	161.1	152.5	149.9	149.4	150.4	150.9
20°	2517.6	2028.8	833.5	234.3	161.6	146.9	138.2	133.7	133.1	134.2	135.2
22.5°	2482.1	1905.8	596.1	180.4	145.9	133.1	122.5	118.4	118.4	119.4	120.4
25°	2438.9	1755.3	407.6	153.0	131.6	118.4	108.2	104.7	105.7	108.2	108.8
27.5°	2385.0	1586.1	277.0	131.1	114.3	103.7	96.1	93.5	96.1	99.6	100.6
30°	2338.8	1409.8	197.7	113.3	97.1	89.4	84.9	84.9	88.4	95.0	96.6
32.5°	2303.2	1239.0	152.5	100.1	84.4	77.8	75.2	77.8	83.3	90.0	91.5
35°	2298.6	1098.2	129.1	89.4	75.2	68.6	67.6	72.2	77.8	82.8	83.9
37.5°	2333.7	968.1	116.4	80.8	67.1	61.0	60.0	65.6	71.1	77.2	78.8
40°	2400.2	866.0	107.2	72.7	60.5	53.9	51.8	55.9	63.5	71.7	73.7
42.5°	2486.6	781.6	97.1	64.5	53.9	44.7	42.2	46.8	54.9	63.5	66.1
45°	2569.0	708.9	85.9	55.4	45.2	34.6	33.5	39.6	43.7	52.3	54.4
47.5°	2614.2	644.9	76.2	45.2	35.1	28.0	28.0	29.5	33.5	43.7	45.7
50°	2599.0	593.6	66.1	33.5	24.4	21.3	21.3	20.8	26.9	35.1	36.6
52.5°	2568.5	564.1	56.9	25.9	16.8	15.2	13.7	15.2	18.8	22.4	22.9
55°	2563.9	559.0	47.8	20.8	11.7	10.2	7.6	7.6	7.6	7.1	6.1
57.5°	2599.5	567.2	40.1	16.8	8.6	6.6	4.1	0.0	0.0	0.0	0.0
60°	2636.1	575.8	34.6	11.7	6.1	3.6	0.5	0.0	0.0	0.0	0.0
62.5°	2575.1	556.5	29.0	7.1	4.6	1.5	0.0	0.0	0.0	0.0	0.0
65°	2262.0	473.6	22.9	5.1	3.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	1609.0	317.1	15.2	3.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0
70°	734.4	132.6	9.7	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	157.0	41.2	6.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	32.0	30.0	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	10.2	47.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	6.1	34.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	1.0	5.1	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)