

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: P301957

Luminaire Tested: **GLNA-AF-07-LED-E1-SL4-7030-600-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P301957
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24301)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLNA-AF-07-LED-E1-SL4-7030-600-HSS
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K CCT 600mA LIGHTSQUARE WITH 16 LEDS EACH AND Type IV
w/Spill Control WITH HOUSESIDE SHEILD OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19783.9 lumens
Efficiency: N/A
Efficacy: 87.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G4

Input Watts (W): 226
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

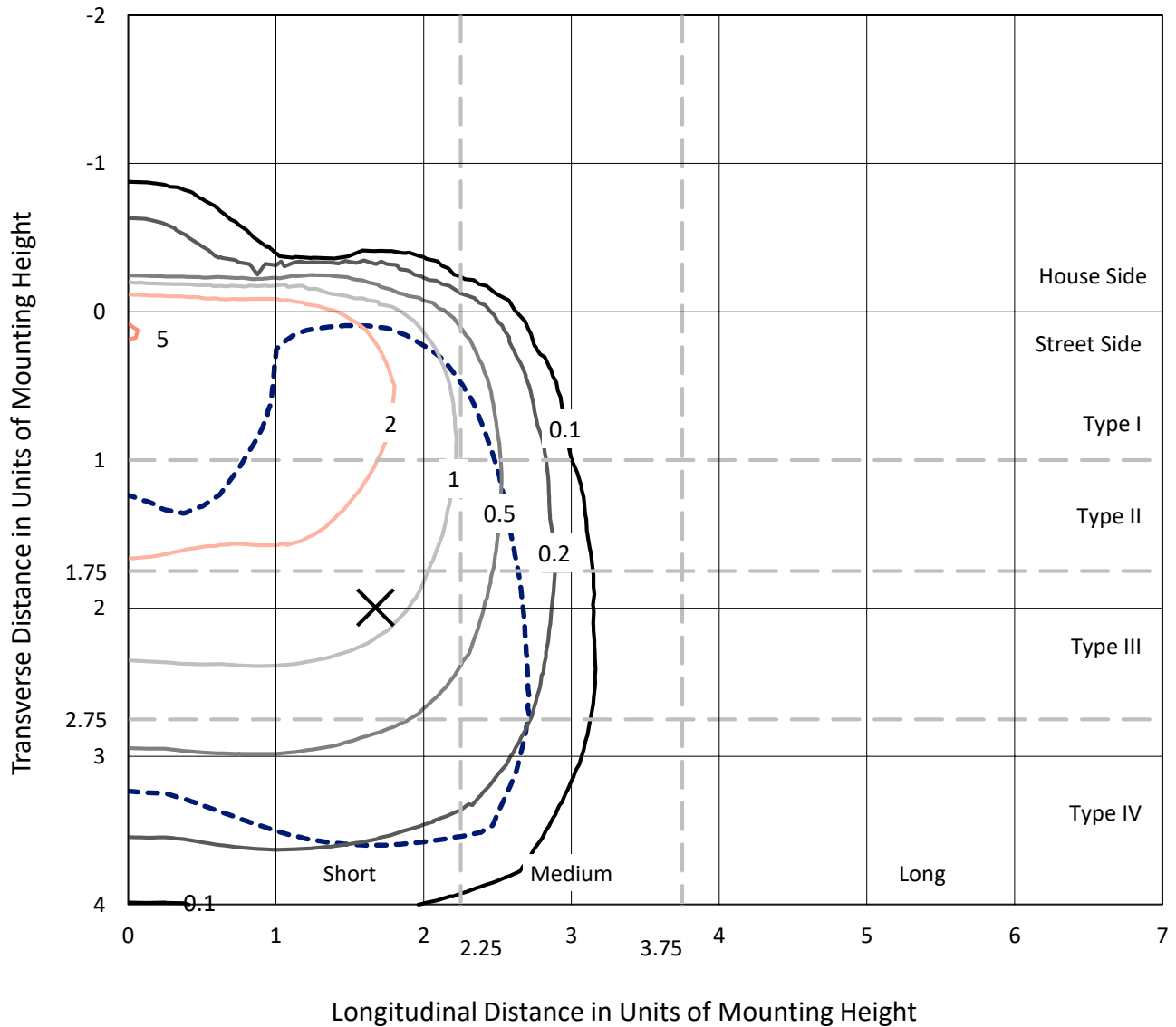


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

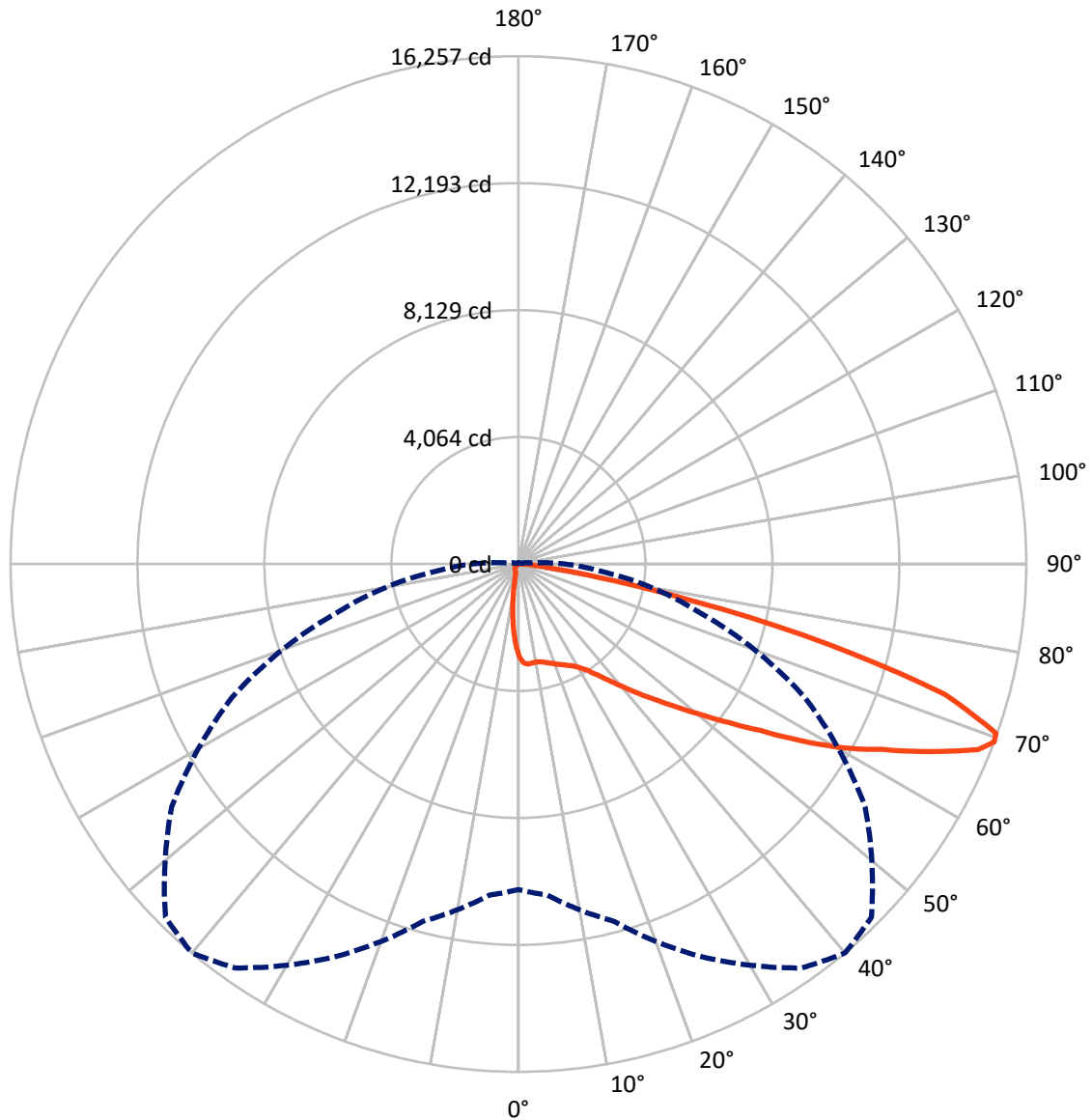


Based on 25 foot mounting height. Maximum calculated value = 5.2 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1157.5	0.0	1157.5
	% Fixture	5.9	0.0	5.9
Street Side	Lumens	18626.4	0.0	18626.4
	% Fixture	94.1	0.0	94.1
Total	Lumens	19783.9	0.0	19783.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	239.7	1.2
10°-20°	589.4	3.0
20°-30°	992.7	5.0
30°-40°	1625.1	8.2
40°-50°	2813.8	14.2
50°-60°	4431.9	22.4
60°-70°	5787.9	29.3
70°-80°	2981.0	15.1
80°-90°	322.5	1.6
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°	19783.9	100.0
0°-180°	19783.9	100.0

Coefficient of Utilization



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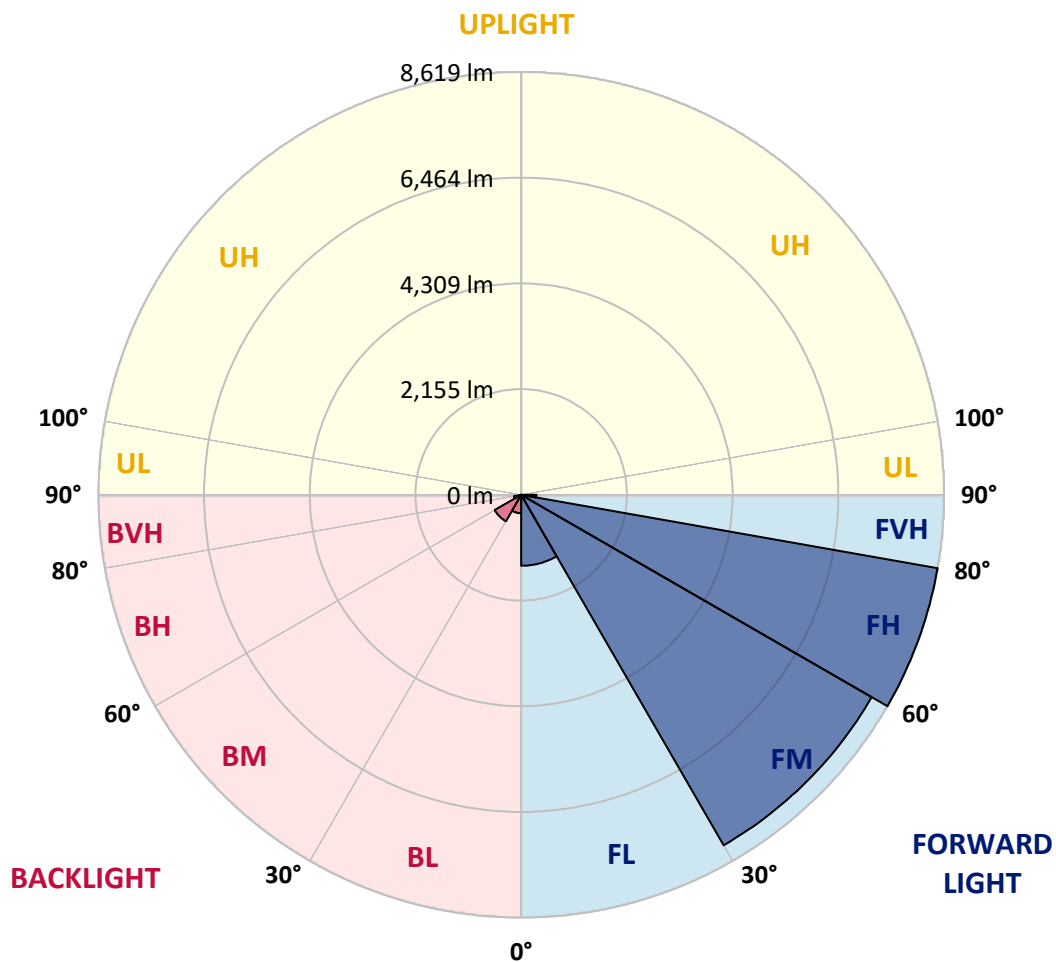
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1446.8	7.3			
FM	(30°-60°)	8248.6	41.7			
FH	(60°-80°)	8618.7	43.6			G4/12000
FVH	(80°-90°)	312.3	1.6			G3/500
BL	(0°-30°)	374.9	1.9	B1/500		
BM	(30°-60°)	622.1	3.1	B1/1000		
BH	(60°-80°)	150.3	0.8	B1/500		G1/500
BVH	(80°-90°)	10.1	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	2955.8	2955.8	2955.8	2955.8	2955.8	2955.8	2955.8	2955.8	2955.8	2955.8	2955.8
2.5°	3245.5	3227.8	3217.2	3203.1	3185.4	3170.1	3164.2	3120.7	3079.5	3022.9	2958.2
5°	3305.6	3299.7	3280.8	3262.0	3240.8	3217.2	3204.3	3152.5	3093.6	3011.2	2898.1
7.5°	3311.5	3304.4	3280.8	3254.9	3225.5	3197.2	3174.8	3123.0	3068.9	2985.3	2847.5
10°	3302.0	3293.8	3276.1	3247.9	3211.4	3184.3	3161.9	3112.4	3066.5	2991.1	2838.0
12.5°	3291.4	3283.2	3274.9	3260.8	3229.0	3210.2	3191.3	3144.2	3103.0	3039.4	2872.2
15°	3302.0	3297.3	3306.7	3300.9	3283.2	3266.7	3247.9	3205.5	3167.8	3114.8	2934.6
17.5°	3346.8	3346.8	3376.2	3379.8	3363.3	3339.7	3312.6	3270.2	3238.4	3193.7	3008.8
20°	3451.6	3448.1	3485.7	3492.8	3452.8	3416.3	3376.2	3324.4	3299.7	3271.4	3081.8
22.5°	3631.8	3615.3	3637.6	3630.6	3551.7	3495.2	3445.7	3382.1	3369.2	3356.2	3163.1
25°	3866.1	3856.7	3872.0	3802.5	3663.6	3587.0	3528.1	3456.3	3456.3	3469.3	3254.9
27.5°	4206.4	4171.1	4119.3	3996.8	3788.4	3690.6	3627.1	3550.5	3570.5	3618.8	3376.2
30°	4555.0	4516.1	4397.2	4208.8	3940.3	3837.8	3763.7	3683.6	3730.7	3819.0	3538.7
32.5°	4898.9	4855.3	4686.9	4449.0	4158.2	4055.7	3983.9	3895.5	3974.4	4122.8	3776.6
35°	5232.1	5193.3	4999.0	4718.7	4447.8	4363.1	4297.1	4220.6	4321.8	4529.1	4112.2
37.5°	5606.6	5564.2	5327.5	5023.7	4800.0	4738.7	4690.4	4613.9	4790.5	5094.4	4579.7
40°	6067.1	5995.2	5676.1	5373.5	5207.4	5178.0	5145.0	5134.4	5408.8	5829.2	5202.7
42.5°	6594.6	6476.9	6041.2	5742.0	5654.9	5676.1	5667.9	5715.0	6182.5	6743.0	5961.1
45°	7122.2	6970.3	6447.4	6135.4	6147.1	6221.3	6267.3	6455.7	7151.7	7791.1	6777.2
47.5°	7569.7	7420.1	6837.2	6560.5	6701.8	6847.8	6972.7	7329.5	8147.9	8822.7	7411.9
50°	7952.4	7811.1	7250.6	7028.0	7346.0	7581.5	7784.0	8312.8	9219.5	9608.2	7857.0
52.5°	8265.7	8171.5	7679.2	7563.8	8082.0	8427.0	8723.8	9357.3	10168.7	10246.4	8203.3
55°	8570.7	8503.6	8139.7	8200.9	8946.3	9416.2	9791.9	10465.5	10986.0	10778.7	8535.3
57.5°	8921.6	8860.4	8664.9	9008.7	10082.7	10673.9	11083.7	11447.6	11705.5	11322.8	8848.6
60°	9279.6	9244.3	9249.0	9906.1	11387.5	11955.1	12181.2	12275.4	12412.1	11835.0	8866.3
62.5°	9621.1	9688.2	9916.7	10904.7	12637.0	13072.7	13186.9	13280.0	13119.8	11916.3	8191.5
65°	10199.3	10308.8	10854.1	12241.3	14011.3	14477.6	14595.3	14276.2	13231.7	10865.8	6662.9
67.5°	10481.9	10682.1	11654.8	13487.2	15344.3	15862.5	15818.9	14341.0	11873.9	8285.7	4275.9
69°	10423.1	10636.2	11839.7	13868.8	15787.1	16257.0	15980.2	13548.4	10115.7	6002.3	2624.9
70°	10189.9	10405.4	11744.3	13854.6	15843.6	16215.7	15681.1	12569.9	8553.0	4389.0	1641.6
72.5°	8509.4	8695.5	10426.6	12522.7	14595.3	14292.7	13118.6	8708.5	4167.6	1195.3	369.8
75°	5238.0	5341.7	7481.4	9433.9	11023.6	10246.4	8740.3	4332.4	1242.4	338.0	204.9
77.5°	2767.4	2814.5	4095.7	5560.7	6988.0	5782.1	4479.6	1689.9	572.3	212.0	148.4
80°	1635.7	1671.0	2205.7	2542.5	3024.1	2526.0	1791.2	1037.5	409.8	133.1	131.9
82.5°	936.2	958.6	1599.2	1413.1	1191.7	1017.5	891.5	983.3	246.1	89.5	136.6
85°	343.9	348.6	899.7	1075.2	708.9	421.6	442.8	814.9	65.9	56.5	107.2
87.5°	160.2	156.6	462.8	658.3	414.5	267.3	345.0	179.0	25.9	36.5	29.4
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°	2955.8	2955.8	2955.8	2955.8	2955.8	2955.8	2955.8	2955.8	2955.8	2955.8	2955.8
2.5°	2920.5	2876.9	2798.0	2716.8	2634.3	2570.7	2508.3	2458.9	2442.4	2411.8	2414.1
5°	2831.0	2750.9	2586.0	2418.8	2244.5	2100.9	1965.4	1855.9	1802.9	1748.8	1748.8
7.5°	2753.3	2636.7	2378.8	2106.8	1825.3	1588.6	1375.5	1215.3	1127.0	1056.3	1055.1
10°	2723.8	2566.0	2205.7	1815.9	1423.7	1101.1	847.9	685.4	601.8	547.6	545.2
12.5°	2736.8	2541.3	2072.6	1547.4	1055.1	707.7	491.1	386.3	350.9	334.4	334.4
15°	2774.5	2534.2	1939.5	1284.8	745.4	442.8	326.2	297.9	295.6	295.6	295.6
17.5°	2820.4	2536.6	1802.9	1029.2	507.6	316.8	281.4	277.9	280.3	280.3	280.3
20°	2867.5	2537.8	1655.7	792.5	358.0	275.6	265.0	263.8	266.1	266.1	267.3
22.5°	2925.2	2543.6	1508.5	592.3	295.6	260.3	252.0	252.0	253.2	253.2	252.0
25°	2991.1	2555.4	1355.4	439.3	269.7	249.7	242.6	241.4	242.6	241.4	240.2
27.5°	3073.6	2571.9	1184.7	343.9	257.9	239.1	233.2	233.2	232.0	230.8	229.6
30°	3177.2	2590.8	992.7	292.0	246.1	229.6	223.7	222.6	221.4	219.0	219.0
32.5°	3335.0	2632.0	803.1	265.0	233.2	216.7	212.0	212.0	209.6	207.3	206.1
35°	3577.6	2713.2	633.6	248.5	219.0	202.5	196.7	196.7	194.3	193.1	192.0
37.5°	3913.2	2836.9	492.2	233.2	204.9	187.2	181.4	180.2	177.8	175.5	174.3
40°	4359.5	2990.0	387.4	219.0	190.8	171.9	167.2	164.9	160.2	156.6	156.6
42.5°	4920.1	3164.2	314.4	203.7	174.3	157.8	154.3	150.7	142.5	139.0	137.8
45°	5506.5	3320.9	266.1	186.1	157.8	143.7	141.3	135.4	124.8	121.3	121.3
47.5°	5929.3	3357.4	234.3	169.6	142.5	128.4	127.2	116.6	107.2	104.8	103.6
50°	6193.1	3285.5	208.4	153.1	128.4	114.2	110.7	97.7	91.9	89.5	88.3
52.5°	6370.9	3157.2	187.2	139.0	115.4	101.3	93.0	83.6	78.9	76.5	76.5
55°	6513.4	2975.8	166.0	126.0	104.8	90.7	78.9	71.8	67.1	64.8	64.8
57.5°	6553.4	2729.7	144.8	115.4	94.2	80.1	67.1	62.4	56.5	55.3	55.3
60°	6262.6	2285.7	128.4	102.5	84.8	69.5	58.9	53.0	47.1	45.9	44.7
62.5°	5495.9	1768.8	113.1	90.7	74.2	60.1	50.6	43.6	38.9	38.9	38.9
65°	4192.3	1185.9	98.9	78.9	64.8	50.6	43.6	35.3	33.0	33.0	34.2
67.5°	2509.5	645.3	84.8	67.1	55.3	42.4	36.5	30.6	29.4	30.6	30.6
69°	1470.8	379.2	76.5	60.1	48.3	37.7	31.8	27.1	29.4	30.6	30.6
70°	907.9	255.5	70.7	54.2	43.6	34.2	29.4	25.9	28.3	29.4	29.4
72.5°	253.2	131.9	56.5	42.4	35.3	28.3	23.6	23.6	27.1	28.3	28.3
75°	164.9	97.7	43.6	31.8	27.1	22.4	20.0	22.4	25.9	27.1	27.1
77.5°	136.6	80.1	35.3	25.9	22.4	21.2	18.8	20.0	23.6	24.7	24.7
80°	124.8	56.5	28.3	23.6	20.0	18.8	17.7	16.5	21.2	22.4	22.4
82.5°	118.9	44.7	24.7	21.2	18.8	16.5	15.3	16.5	18.8	20.0	21.2
85°	74.2	29.4	22.4	20.0	16.5	15.3	15.3	15.3	17.7	18.8	18.8
87.5°	27.1	23.6	20.0	16.5	14.1	14.1	14.1	14.1	15.3	17.7	17.7
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)